## Section 19



## Push Buttons and Operator Interface

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Push Button and Pilot Light Selection Guide


Push Button Selection Guide

\begin{tabular}{|c|c|c|c|c|c|c|}
\hline Family \& XB4 \& XB5 \& XB7 \& 9001K \& 9001SK \& 9001KX \\
\hline \multicolumn{7}{|c|}{New!} \\
\hline Type of Product \& \[
\begin{aligned}
\& \text { *22 mm Push Button } \\
\& \text { (metal) }
\end{aligned}
\] \& \[
\begin{aligned}
\& \text { **22 mm Push Button } \\
\& \text { (plastic) }
\end{aligned}
\] \& \[
\begin{aligned}
\& \text { ***22mm Push Button } \\
\& \text { (plastic) }
\end{aligned}
\] \& \(\qquad\) (metal) \& \[
\begin{aligned}
\& \text { **** } 30 \mathrm{~mm} \text { Push Button } \\
\& \text { (plastic) } \\
\& \hline
\end{aligned}
\] \& ****30 mm Push Button (metal, square) \\
\hline Mounting Hole Diameter \& 22.5 mm \& 22.5 mm \& 22.5 mm \& \[
\begin{aligned}
\& 31 \mathrm{~mm} \\
\& (1.22 \mathrm{in}) \\
\& \hline
\end{aligned}
\] \& \[
\begin{array}{|l}
\hline 31 \mathrm{~mm} \\
(1.22 \mathrm{in}) \\
\hline
\end{array}
\] \& \[
\begin{array}{|l|}
\hline 31 \mathrm{~mm} \\
(1.22 \mathrm{in}) \\
\hline
\end{array}
\] \\
\hline \multirow[t]{2}{*}{Approvals} \& \begin{tabular}{l}
UL Listed File E164353, CCN NKCR \\
UL Recognized File E164353. CCN NKCR2
\end{tabular} \& \begin{tabular}{l}
UL Listed File E164353, CCN NKCR \\
UL Recognized File E164353., CCN NKCR2
\end{tabular} \& UL File E164353, CCN NKCR \& UL File E78403. CCN NKCR \& UL File E78403. CCN NKCR \& UL File E78403. CCN NKCR \\
\hline \& \[
\begin{aligned}
\& \text { CSA File LR44087. } \\
\& \text { Class 3211-03 } \\
\& \hline
\end{aligned}
\] \& CSA File LR44087. Class 3211-03 \& \[
\begin{array}{|l}
\hline \text { CSA File LR44087-122 } \\
\text { Class 3211-03 } \\
\hline
\end{array}
\] \& \[
\begin{aligned}
\& \text { CSA File LR25490. } \\
\& \text { Class 3211-03 } \\
\& \hline
\end{aligned}
\] \& \[
\begin{aligned}
\& \text { CSA File LR25490. } \\
\& \text { Class 3211-03 } \\
\& \hline
\end{aligned}
\] \& \[
\begin{aligned}
\& \text { CSA File LR25490. } \\
\& \text { Class 3211-03 } \\
\& \hline
\end{aligned}
\] \\
\hline \multirow{11}{*}{Conforming to Standards} \& CE Marked RoHS Compliant \& CE Marked RoHS Compliant \& CE Marked RoHS Compliant \& CE Marked RoHS Compliant \& CE Marked RoHS Compliant \& CE Marked RoHS Compliant \\
\hline \& \[
\begin{aligned}
\& \text { EN/IEC 60947-1, } \\
\& \text { EN/IEC 60947-5-1, } \\
\& \text { EN/IEC 60947-5-4, } \\
\& \text { EN/IEC 60947-5-5 }
\end{aligned}
\] \& \begin{tabular}{l}
EN/IEC 60947-1, \\
EN/IEC 60947-5-1, \\
EN/IEC 60947-5-4, \\
EN/IEC 60947-5-5
\end{tabular} \& \begin{tabular}{l}
EN/IEC 60947-1, \\
EN/IEC 60947-5-1 for push buttons, pilot lights, illuminated push buttons and selector switches \\
EN/IEC 60947-1, \\
EN/IEC 60947-5-1, \\
EN/IEC 60947-5-5,
\end{tabular} \& EN/IEC 60947-1 \& EN/IEC 60947-1 \& \\
\hline \& EN/IEC 60204-1 and EN/ISO 13850: 2006 (trigger action and mechanical latching emergency stop push buttons) \& EN/IEC 60204-1 and EN/ISO 13850: 2006 (trigger action and mechanical latching emergency stop push button). \& EN/IEC 60204-1 and EN/ISO 13850 for Emergency Stop trigger action push buttons \& EN/IEC60947-5-1 \& EN/IEC60947-5-1 \& \\
\hline \& EN/IEC 60364-5-53 (emergency switching of mechanical latching push buttons) \& EN/IEC 60364-5-53 (emergency switching of mechanical latching push buttons) \& \& EN/IEC60947-5-4 \& EN/IEC60947-5-4 \& \\
\hline \& - \& EN81-1 (emergency stop trigger action and mechanical latching push buttons with mechanical state indicator) \& \& \& \& \\
\hline \& JIS C 4520 \& JIS C 4520 \& \& JIS C 4520 and 852 \& JIS C 4520 and 852 \& \\
\hline \& UL 508 \& UL 508 \& UL 508 \& UL 508 \& UL 508 \& \\
\hline \& CSA C22.2 No. 14 \& CSA C22.-2 No. 14 \& CSA C22 No. 14 \& CSA C22.2 No. 14 \& CSA C22.2 No. 14 \& \\
\hline \& GOST \& GOST \& \& \& \& \\
\hline \& CCC \& CCC \& CCC \& \& \& \\
\hline \& \& \& GB 14048.5 for all XB7 range \& \& \& \\
\hline \multirow[b]{3}{*}{Degree of Protection} \& IP65, IP69, IP69K \& IP65, IP69, IP69K \& IP54, IP65 \& IP65 \& IP65 \& IP66 \\
\hline \& IP66 for booted \& IP66 for booted \& - \& - \& - \& - \\
\hline \& NEMA 1, 2, 3, 4, 4X, 12, 13 \& \[
\begin{aligned}
\& \text { NEMA 1, 2, 3, 3R, 4, 4X, 12, } \\
\& 13
\end{aligned}
\] \& NEMA 3, 4, 12 \& NEMA 1, 2, 3, 3R, 4, 12, 13 \& \[
\begin{aligned}
\& \text { NEMA 1, 2, 3, 3R, 4, 4X, } \\
\& 12,13
\end{aligned}
\] \& \[
\begin{aligned}
\& \hline \text { NEMA 1, 2, 3, 3R, 4, 12, } \\
\& 13
\end{aligned}
\] \\
\hline Operating Temperature \(\mathrm{F}^{\circ}\) (Cㅇ) \& -40 to 158 (-40 to 70) \& -40 to \(158(-40\) to 70 ) \& -13 to 158 (-25 to 70) \& -22 to 140 (-30 to 60) \& -22 to 140 (-30 to 60) \& -22 to 140 (-30 to 60) \\
\hline Storage Temperature \(\mathrm{F}^{\circ}\) (Cㅇ) \& -40 to 158 (-40 to 70) \& -40 to \(158(-40\) to 70 ) \& -40 to 158 (-40 to 70) \& -40 to 158 (-40 to 70) \& -40 to 158 (-40 to 70) \& -40 to 158 (-40 to 70) \\
\hline Electric Shock Protection \& Class I \& Class I \& - \& Class II \& Class II \& Class II \\
\hline \multicolumn{7}{|l|}{Electrical Consumption} \\
\hline LED \& \begin{tabular}{l}
\(24 \mathrm{Vac} / \mathrm{Vdc}: 18 \mathrm{~mA}\) \\
\hline \(120 \mathrm{Vac}: 14 \mathrm{~mA}\) \\
\\
\(240 \mathrm{Vac}: 14 \mathrm{~mA}\)
\end{tabular} \& \(24 \mathrm{Vac} / \mathrm{Vdc}: 18 \mathrm{~mA}\)
\(120 \mathrm{Vac}: 14 \mathrm{~mA}\)

$240 \mathrm{Vac}: 14 \mathrm{~mA}$ \& | Illuminated Push Buttons: |
| :--- |
| 24V-18mA |
| 120V-12mA |
| 230V-22mA |
| Pilot Lights |
| $24 \mathrm{~V}-20 \mathrm{~mA}$ |
| 120V-18mA |
| 230V-16mA | \& | Incandescent and LED bulbs. |
| :--- |
| For ratings, see Standard Light Modules, page 19-91. | \& | Incandescent and LED bulbs. |
| :--- |
| For ratings, see Standard Light Modules, page 19-91. | \& - <br>

\hline \multirow[b]{2}{*}{Rated Operational Characteristics} \& \[
$$
\begin{aligned}
& \text { AC-15; B600 } \\
& \text { Ue }=600 \mathrm{Vac} \text { and } \mathrm{le}=1.2 \mathrm{~A} \\
& \mathrm{Ue}=240 \mathrm{Vac} \text { and } \\
& \mathrm{le}=3 \mathrm{~A} \\
& \text { Ue }=120 \mathrm{Vac} \text { and } \mathrm{le}=6 \mathrm{~A} \\
& \text { Continuous } 10 \mathrm{~A} \\
& \hline
\end{aligned}
$$

\] \& | AC-15; B600 |
| :--- |
| $\mathrm{Ue}=600 \mathrm{Vac}$ and $\mathrm{le}=1.2 \mathrm{~A}$ |
| $\mathrm{Ue}=240 \mathrm{Vac}$ and $\mathrm{le}=3 \mathrm{~A}$ |
| $\mathrm{Ue}=120 \mathrm{Vac}$ and $\mathrm{le}=6 \mathrm{~A}$ |
| Continuous 10 A | \& \[

$$
\begin{aligned}
& \hline \mathrm{AC}-14 ; \mathrm{D} 300 \\
& \mathrm{Ue}=240 \mathrm{Vac} \text { and } \mathrm{le}= \\
& 0.3 \mathrm{~A} \\
& \mathrm{Ue}=120 \mathrm{Vac} \text { and } \mathrm{le}= \\
& 0.6 \mathrm{~A} \\
& \text { Continuous } 4 \mathrm{~A} \\
& \hline
\end{aligned}
$$

\] \& | AC-15; A600 |
| :--- |
| Continuous 10 A | \& | AC-15; A600 |
| :--- |
| Continuous 10 A | \& | AC-15; A600 |
| :--- |
| Continuous 10 A | <br>

\hline \& $$
\begin{aligned}
& \text { DC-13; Q600 } \\
& \text { Ue }=600 \mathrm{Vdc} \text { and } \\
& \mathrm{le}=0.1 \mathrm{~A} \\
& \mathrm{Ue}=250 \mathrm{Vdc} \text { and } \\
& \mathrm{le}=0.27 \mathrm{~A} \\
& \mathrm{Ue}=125 \mathrm{Vdc} \text { and } \\
& \mathrm{le}=0.55 \mathrm{~A} \\
& \hline
\end{aligned}
$$ \& \[

$$
\begin{aligned}
& \hline \text { DC-13; Q600 } \\
& \mathrm{Ue}=600 \mathrm{Vdc} \text { and } \\
& \mathrm{le}=0.1 \mathrm{~A} \\
& \mathrm{Ue}=250 \mathrm{Vdc} \text { and } \\
& \mathrm{le}=0.27 \mathrm{~A} \\
& \mathrm{Ue}=125 \mathrm{Vdc} \text { and } \\
& \mathrm{le}=0.55 \mathrm{~A} \\
& \hline
\end{aligned}
$$

\] \& DC-13; R300 $\mathrm{Ue}=250 \mathrm{Vdc}$ and $\mathrm{le}=$ 0.1 A $\mathrm{Ue}=125 \mathrm{Vdc}$ and $\mathrm{le}=$ 0.22A \& \[

$$
\begin{aligned}
& \hline \text { DC-13; Q600 } \\
& \mathrm{Ue}=600 \mathrm{Vdc} \text { and } \\
& \mathrm{le}=0.1 \mathrm{~A} \\
& \mathrm{Ue}=250 \mathrm{Vdc} \text { and } \\
& \mathrm{le}=0.27 \mathrm{~A} \\
& \mathrm{Ue}=125 \mathrm{Vdc} \text { and } \\
& \mathrm{le}=0.55 \mathrm{~A} \\
& \hline
\end{aligned}
$$

\] \& \[

$$
\begin{aligned}
& \text { DC-13; Q600 } \\
& \text { Ue }=600 \mathrm{Vdc} \text { and } \\
& \mathrm{le}=0.1 \mathrm{~A} \\
& \mathrm{Ue}=250 \mathrm{Vdc} \text { and } \\
& \mathrm{le}=0.27 \mathrm{~A} \\
& \mathrm{Ue}=125 \mathrm{Vdc} \text { and } \\
& \mathrm{le}=0.55 \mathrm{~A} \\
& \hline
\end{aligned}
$$

\] \& \[

$$
\begin{aligned}
& \hline \text { DC-13; Q600 } \\
& \mathrm{Ue}=600 \mathrm{Vdc} \text { and } \\
& \mathrm{le}=0.1 \mathrm{~A} \\
& \mathrm{Ue}=250 \mathrm{Vdc} \text { and } \\
& \mathrm{le}=0.27 \mathrm{~A} \\
& \mathrm{Ue}=125 \mathrm{Vdc} \text { and } \\
& \mathrm{le}=0.55 \mathrm{~A} \\
& \hline
\end{aligned}
$$
\] <br>

\hline \multirow[t]{2}{*}{Connection Type} \& \multicolumn{2}{|l|}{IP20 Fingersafe Screw or Spring Terminal} \& \multirow[b]{3}{*}{Screw and captive clamp terminal connections Faston clip connections (pilot lights)} \& \multicolumn{3}{|c|}{\multirow[b]{2}{*}{IP20 Fingersafe Screw Terminal}} <br>
\hline \& Screw Terminal: \& Spring Terminal: \& \& \& \& <br>

\hline Cable Size \& $1 \times 24$ AWG ( $0.22 \mathrm{~mm}^{2}$ ) min. $2 \times 14$ AWG ( $2.5 \mathrm{~mm}^{2}$ ) max. $2 \times 16$ AWG ( $1.5 \mathrm{~mm}^{2}$ ) max. \& | $1 \times 24$ AWG ( $0.22 \mathrm{~mm}^{2}$ ) min. |
| :--- |
| $2 \times 14$ AWG ( $2.5 \mathrm{~mm}^{2}$ ) max. |
| $2 \times 16$ AWG ( $1.5 \mathrm{~mm}^{2}$ ) max. | \& \& | $1 \times 24$ AWG ( $0.22 \mathrm{~mm}^{2}$ ) min. |
| :--- |
| $2 \times 16$ AWG (1.5 mm ${ }^{2}$ ) max | \& \[

$$
\begin{array}{|l}
\hline 1 \times 24 \text { AWG }\left(0.22 \mathrm{~mm}^{2}\right) \\
\mathrm{min} . \\
2 \times 16 \text { AWG }\left(1.5 \mathrm{~mm}^{2}\right) \\
\max \\
\hline
\end{array}
$$
\] \& ```

1\times24 AWG (0.2 2mm}
min.
2 x 16 AWG (1.5 mm2)
max

``` \\
\hline Digest Location & XB4, page 19-24 & XB5, page 19-42 & XB7, page 19-68 & Type K, page 19-72 & Type SK, page 19-82 & KX, page 19-102 \\
\hline
\end{tabular}

Control Station Selection Guide


Tower Lights and Beacons Selection Guide (1 of 2)
\begin{tabular}{|c|c|c|}
\hline Family & XVB L & xvB C \\
\hline &  &  \\
\hline Type of Product & Beacon & Tower Light \\
\hline Diameter & 70 mm & 70 mm \\
\hline Features & Product for Customer Configuration & Product for Customer Configuration \\
\hline \multirow[t]{2}{*}{Approvals} & UL File E164353 CCN NKCR & UL File E164353 CCN NKCR \\
\hline & CSA File LR 44087 Class 321103 & CSA File LR 44087 Class 321103 \\
\hline \multirow{4}{*}{Conforming to Standards} & CE Marked & CE Marked \\
\hline & IEC/EN 60947-5-1 & IEC/EN 60947-5-1 \\
\hline & UL 508 & UL 508 \\
\hline & CSA 22.2 No 14 & CSA 22.2 No 14 \\
\hline Degree of Protection & IP65 & IP65 \\
\hline Operating Temperature \(\mathrm{F}^{\circ}\left(\mathrm{C}^{\circ}\right)\) & -13 to122 (-25 to 50) & -13 to122 (-25 to 50) \\
\hline Storage Temperature \(\mathrm{F}^{\circ}\left(\mathrm{C}^{\circ}\right)\) & -40 to 158 (-40 to 70) & -40 to 158 (-40 to 70) \\
\hline Light Source & LED / Incandescent & LED / Incandescent \\
\hline \multicolumn{3}{|l|}{Electrical Consumption} \\
\hline LED Steady & \(24 \mathrm{Vac} / \mathrm{dc}:<30 \mathrm{~mA}\) & \(24 \mathrm{Vac} / \mathrm{dc}:<30 \mathrm{~mA}\) \\
\hline & 120-230 Vac: < 30 mA & 120-230 Vac: < 30 mA \\
\hline \multirow[b]{3}{*}{LED Flashing with Buzzer} & \(24 \mathrm{Vac} / \mathrm{dc}:<40 \mathrm{~mA}\) & \(24 \mathrm{Vac} / \mathrm{dc}:<40 \mathrm{~mA}\) \\
\hline & 120-230 Vac: < 15mA & \(120-230 \mathrm{Vac}\) < 15 mA \\
\hline & 1 Hz (1 flash per second) & 1 Hz (1 flash per second) \\
\hline \multirow{4}{*}{Strobe (Energized)} & \begin{tabular}{l}
24 Vdc : \\
5 Joules unit < 430 mA ; 10 J unit: < 850 mA
\end{tabular} & 24 Vdc: \\
\hline & \begin{tabular}{l}
120 Vac: \\
5 Joules unit: < 130 mA ; 10 J unit: < 260 mA
\end{tabular} & \begin{tabular}{l}
120 Vac: \\
5 Joules unit: < 130 mA ; 10 J unit: < 260 mA
\end{tabular} \\
\hline & \begin{tabular}{l}
230 Vac: \\
5 Joules unit: < 105 mA ; 10 J unit: < 210 mA
\end{tabular} & \[
\begin{aligned}
& 230 \text { Vac: } \\
& 5 \text { Joules unit: < } 105 \mathrm{~mA} ; 10 \text { J unit: }<210 \mathrm{~mA}
\end{aligned}
\] \\
\hline & 1 Hz (1 flash per second) & 1 Hz (1 flash per second) \\
\hline \multirow{3}{*}{Audible Sounders} & \(12-48 \mathrm{Vac} / \mathrm{dc}:<20 \mathrm{~mA}\) & 12-48 Vac/dc: < 20 mA \\
\hline & 120-230 Vac: < 50 mA & \(120-230\) Vac: \(<50 \mathrm{~mA}\) \\
\hline & 90 decibels at 1 meter & 90 decibels at 1 meter \\
\hline Connection Type & Screw Clamp & Screw Clamp \\
\hline Cable Size & \[
\begin{aligned}
& 1 \times 16 \text { AWG }\left(1.5 \mathrm{~mm}^{2}\right) \\
& \text { With Cable End }
\end{aligned}
\] & \[
\begin{aligned}
& 1 \times 16 \text { AWG }\left(1.5 \mathrm{~mm}^{2}\right) \\
& \text { With Cable End } \\
& \hline
\end{aligned}
\] \\
\hline Digest Location & XVB 70 mm Beacons, page 19-115 & XVB 70 mm Components, page 19-116 \\
\hline
\end{tabular}

Tower Lights and Beacons Selection Guide (2 of 2)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Family & XVC 4 & XVC 6 & XVC 1 & XVU & xVGU & XVR & XVS \\
\hline &  &  &  &  &  &  &  \\
\hline Type of Product & *Tower Light & *Tower Light & *Tower Light & **Tower Light & **Tower Light & ***Rotating Mirror Beacon & ***Siren and Electronic Alarm \\
\hline Diameter & 40 mm & 60 mm & 100 mm & 60 mm & 60 mm & 84/106/120/130 mm & - \\
\hline Features & All devices are pr & e-assembled and & pre-wired & Programmable LED module with multiple colors, flashing, blinking, and rotating & Programmable with Magelis through USB & All devices are preassembled and pre-wired. XVR12••S includes buzzer: 70 to 90 decibels & \begin{tabular}{l} 
Adjustable Tones \\
XVS14BMW, 0 to \\
105 decibels, 43 \\
tones \\
XVS72BM•• 0 to 90 \\
decibels, 16 tones \\
\hline
\end{tabular} \\
\hline Approvals & UL Recognized E164353 CNN NKCR & UL Recognized E164353 CNN NKCR & UL Recognized E164353 CNN NKCR & UL file: E164353 CCN : NKCR & UL File E164353 CCN NKCR & UL Recognized E164353 CNN NKCR & \[
\begin{aligned}
& \text { UL Recognized } \\
& \text { E164353 } \\
& \text { CNN UCST }
\end{aligned}
\] \\
\hline & \[
\begin{array}{|l|}
\hline \text { CSA LR44087 } \\
\text { Class 3211-03 } \\
\hline
\end{array}
\] & \[
\begin{array}{|l|}
\hline \text { CSA LR44087 } \\
\text { Class 3211-03 } \\
\hline
\end{array}
\] & \[
\begin{aligned}
& \text { CSA LR44087 } \\
& \text { Class 3211-03 } \\
& \hline
\end{aligned}
\] & CSA File : 225619 CLASS: 3211-07 & cUL File: E164353 CCN: NKCR7 & \[
\begin{array}{|l|l|}
\hline \text { CSA LR44087 } \\
\text { Class 3211-03 } \\
\hline
\end{array}
\] & \[
\begin{aligned}
& \text { CSA LR44087 } \\
& \text { Class 3211-03 } \\
& \hline
\end{aligned}
\] \\
\hline & CE Marked & CE Marked & CE Marked & CE Marked & CE Marked & CE Marked & CE Marked \\
\hline & EN61000-6-2 & EN61000-6-2 & EN61000-6-2 & EN 60947-1 & EN 61000-6-2 & EN61000-6-2 & - \\
\hline & EN61000-6-3 & EN61000-6-3 & EN61000-6-3 & EN 60947-5-1 & & EN61000-6-4 & - \\
\hline Conforming to
Standards & - & EN61000-6-4 & EN61000-6-4 & & EN 61000-6-2 & - & - \\
\hline & UL 508 & UL 508 & UL 508 & UL508 & UL508 & UL 508 & UL 508 \\
\hline & \[
\begin{aligned}
& \hline \text { CSA } 22.2 \\
& \text { No. } 14 \\
& \hline
\end{aligned}
\] & \[
\begin{array}{|l|}
\hline \text { CSA } 22.2 \\
\text { No. } 14 \\
\hline
\end{array}
\] & \begin{tabular}{l}
\[
\text { CSA } 22.2
\] \\
No. 14
\end{tabular} & CSA C22.2 No. 14 & CSA C22.2 No. 14 & CSA 22.2 No. 14 & CSA 22.2 No. 14 \\
\hline Degree of Protection & IP54 & IP54 & IP54 & IP65 & IP42 & IP23 / IP65 / IP66 & IP53 / IP54 \\
\hline \[
\begin{aligned}
& \text { Operating } \\
& \text { Temperature } \mathrm{F}^{\circ} \\
& \left(\mathrm{C}^{\circ}\right)
\end{aligned}
\] & \[
\begin{array}{|l}
-13 \text { to122 }(-25 \\
\text { to } 50)
\end{array}
\] & \[
\begin{aligned}
& -13 \text { to122 }(-25 \\
& \text { to } 50)
\end{aligned}
\] & \[
\begin{aligned}
& -13 \text { to122 (-25 to } \\
& 50)
\end{aligned}
\] & -13 to 122 (-25 to 50) & 32 to 131 (0 to 55) & -14 to 122 (-10 to 50) & -4 to 122 (-20 to 50) \\
\hline \[
\begin{aligned}
& \text { Storage } \\
& \text { Temperaure } \mathrm{F}^{\circ} \\
& \left(\mathrm{C}^{\circ}\right)
\end{aligned}
\] & \[
\begin{array}{|l}
-40 \text { to } 158(-40 \\
\text { to } 70)
\end{array}
\] & \[
\begin{array}{|l}
-40 \text { to } 158(-40 \\
\text { to } 70)
\end{array}
\] & \[
\begin{aligned}
& -40 \text { to } 158(-40 \text { to } \\
& 70)
\end{aligned}
\] & -13 to 150 (-25 to 65) & -31 to 158 (-35 to 70) & -31 to 158 (-35 to 70) & \[
-31 \text { to } 158(-35 \text { to }
\]
70) \\
\hline Light Source & LED & LED & LED & LED & LED & LED & - \\
\hline Electrical Consum & ption & & & Body unit \(\leq 400 \mathrm{~mA}\) & 400 mA & & \\
\hline LED Steady & \[
\begin{aligned}
& 24 \mathrm{~V}: \\
& 1 \text { unit }=40 \mathrm{~mA} ; \\
& 2 \text { unit }=80 \mathrm{~mA} ; \\
& 3 \text { unit }=120 \mathrm{~mA} \\
& 4 \text { unit }=160 \mathrm{~mA} ; \\
& 5 \text { unit }=200 \mathrm{~mA}
\end{aligned}
\] & & \[
\begin{aligned}
& 24 \mathrm{~V}: \\
& 1 \text { unit }=100 \mathrm{~mA} ; \\
& 2 \text { unit }=200 \mathrm{~mA} ; \\
& 3 \text { unit }=30 \mathrm{~mA} \\
& 4 \text { unit }=400 \mathrm{~mA} ; \\
& 5 \text { unit }=500 \mathrm{~mA}
\end{aligned}
\] & LED Units \(\leq 50 \mathrm{~mA}\) & Programmable with Magelis through USB & \begin{tabular}{l}
XVR08, XVR10, XVR12, and XVR13 (without buzzer) \(12 \mathrm{Vac} / \mathrm{dc}: 360 \mathrm{~mA}\) \\
\(24 \mathrm{Vac} / \mathrm{dc}: 180 \mathrm{~mA}\)
\end{tabular} & - \\
\hline LED Flashing ** with Buzzer & \begin{tabular}{l}
**24 V: \\
1 unit \(=90 \mathrm{~mA}\); \\
2 unit \(=130 \mathrm{~mA}\); \\
3 unit \(=170 \mathrm{~mA}\) \\
4 unit \(=210 \mathrm{~mA}\); \\
5 unit \(=250 \mathrm{~mA}\) \\
0.7 to 3 Hz ( 1 flas \\
sec )
\end{tabular} & h per 0.7 to 3 & \[
\begin{aligned}
& 24 \mathrm{~V}: \\
& 1 \text { unit }=150 \mathrm{~mA} ; \\
& 2 \text { unit }=250 \mathrm{~mA} ; \\
& 3 \text { unit }=350 \mathrm{~mA} \\
& 4 \text { unit }=450 \mathrm{~mA} ; \\
& 5 \text { unit }=550 \mathrm{~mA} \\
& 3 \text { to } 3.5 \mathrm{~Hz}(1 \text { flash } \\
& \text { per } 3 \text { to } 3.5 \mathrm{sec}) \\
& \hline
\end{aligned}
\] & Buzzer \(\leq 70 \mathrm{~mA}\) Flasher and multi-color \(\leq 70 \mathrm{~mA}\) & Programmable with Magelis through USB & \begin{tabular}{l}
XVR12 with buzzer: \\
\(12 \mathrm{Vac} / \mathrm{dc}: 400 \mathrm{~mA}\) \\
\(24 \mathrm{Vac} / \mathrm{dc}: 230 \mathrm{~mA}\) \\
3 Hz (1 flash per 3 sec )
\end{tabular} & - \\
\hline Strobe (Energized) & - & - & - & - & - & - & - \\
\hline \multirow[t]{2}{*}{Audible Sounders} & 70 to 85 decibels at 1 meter & 70 to 85 decibels at 1 meter & 60 to 85 decibels at 1 meter & - & - & - & XVS14BMW \(12 \mathrm{Vdc}: 350 \mathrm{~mA}\) 24 Vdc: 400 mA 105 decibels at 1 m \\
\hline & - & - & - & - & - & - & \[
\begin{aligned}
& \text { XVS72BM } \\
& 12 \text { VdC: } 280 \mathrm{~mA} \\
& 24 \mathrm{VdC} 190 \mathrm{~mA} \\
& 90 \text { decibels at } 1 \mathrm{~m} \\
& \hline
\end{aligned}
\] \\
\hline Connection Type & \begin{tabular}{l}
Pre-Wired, Color-Coded Wires cable length: 600 mm XVC4 \(\cdot \bullet\) 900 mm \\
XVC4••K 500 mm XVC4••5S
\end{tabular} & \begin{tabular}{l}
Pre-Wired \\
Color-Coded Wires \\
cable length: \\
600mm XVC6.• \\
850mm \\
XVC6••K \\
550mm \\
XVC6••5S \\
850mm \\
XVC6••5SK
\end{tabular} & Pre-Wired, Color-Coded Wires cable length: 500 mm XVC1 \(1 \cdot \mathrm{~K}\) 500 mm XVC1••SK 550 mm XVC6••5S 850mm XVC6••5SK & Screw Clamp & USB power cable: - \(300 \mathrm{~mm} /\) 11.81 in . for tube mounting \(400 \mathrm{~mm} / 15.75 \mathrm{in}\). for direct mounting & Pre-Wired cable length: 500mm XVR08... 400mm XVR10… 400mm XVR12… 400mm XVR13... & \begin{tabular}{l}
XVS14BMW Pre-Wired, ColorCoded Wires cable length: 500 mm XVS14 \\
XVS72BM•• Not Pre-Wired
\end{tabular} \\
\hline Cable Size & \[
\begin{array}{|l}
\hline 22 \text { AWG (0.33 } \\
\left.\mathrm{mm}^{2}\right)
\end{array}
\] & \[
\begin{array}{|l|}
\hline 22 \text { AWG (0.33 } \\
\left.\mathrm{mm}^{2}\right)
\end{array}
\] & \[
\begin{array}{|l}
\hline \begin{array}{l}
22 \text { AWG ( } 0.33 \\
\left.\mathrm{~mm}^{2}\right)
\end{array} \\
\hline
\end{array}
\] & 22-16 AWG &  & 18 AWG ( \(0.75 \mathrm{~mm}^{2}\) ) &  \\
\hline Digest Location & \[
\begin{array}{|l}
\hline \text { XVC, page 19- } \\
118 \\
\hline
\end{array}
\] & \[
\begin{array}{|l}
\hline \text { XVC, page 19- } \\
118
\end{array}
\] & XVC, page 19-118 & XVU, page 19-120 & XVGU, page 19-122 & XVR, page 19-123 & XVS, page 19-124 \\
\hline & \multicolumn{3}{|l|}{\(\longrightarrow \longrightarrow\)} & \multicolumn{4}{|l|}{} \\
\hline
\end{tabular}

Pendant Station Selection Guide
\begin{tabular}{|c|c|c|c|c|c|}
\hline Family & \begin{tabular}{l}
XAR \\
eXL Hoist
\end{tabular} & 9001BW & XACA2 & XACAO & 9001SKYP \\
\hline & New! &  &  &  &  \\
\hline Type of Product & *Wireless Pendant & **2-Button Pendant & **2-Button Pistol Grip Pendant & **General Purpose Pendant & **Heavy Duty Pendant \\
\hline Number of operators & 6 & 2 & 2 & 2, 3, 4, 6, 8, 12 & 2, 4, 6, 8, 10 \\
\hline Approvals & UL File E164353, CCN NKCR/NKR7 (cULus) CSA File LR44087 Class 3211-07 & \[
\begin{aligned}
& \hline \text { UL File E78403 } \\
& \text { CNN NKCR } \\
& \text { CSA File LR25490 } \\
& \text { Class 3211-03 } \\
& \hline
\end{aligned}
\] & UL File E164353 CNN NKCR CSA File LR 44087 Class 3211-03 & UL File E164353 CNN NKCR CSA File LR 44087 Class 3211-03 & UL File E78403 CNN NKCR CSA File LR25490 Class 3211-03 \\
\hline Conforming to Standards & \begin{tabular}{l}
EN/IEC 60947-5-1, \\
EN/IEC 60204-32, \\
UL 508, \\
CSA 22-2 No. 14 and \\
EN/ISO 13849-1, \\
EN/IEC 62061, \\
EN/IEC 61508, \\
EN/ISO 13850 \\
EN 13557, \\
EN 15011 \\
UL, \\
CSA, \\
CE, \\
CCC \\
RoHS Compliant
\end{tabular} & CE Marked & \begin{tabular}{l}
EN/IEC 60947-5-1, \\
EN/IEC 60204-32, \\
EN/IEC 60947-5-5, and \\
EN/ISO 13850 (for versions \\
with trigger action emergency \\
stop) \\
UL 508 \\
CSA C22-2 No. 14 \\
RoHS compliant
\end{tabular} & \begin{tabular}{l}
EN/IEC 60947-5-1, \\
EN/IEC 60204-32, \\
EN/IEC 60947-5-5, and \\
EN/ISO 13850 (for versions \\
with trigger action emergency \\
stop) \\
UL 508 \\
CSA C22-2 No. 14 \\
RoHS compliant
\end{tabular} & CE Marked \\
\hline Degree of Protection & IP65, NEMA 4 & NEMA 1, 3, 3R, 4, 4X & \[
\begin{aligned}
& \text { NEMA 1, 4, 4X, } 5 \\
& \text { IP65 } \\
& \text { IK08 } \\
& \hline
\end{aligned}
\] & \[
\begin{array}{|l}
\hline \text { NEMA 1, 4, 4X, } 5 \\
\text { IP65 } \\
\text { IK08 } \\
\hline
\end{array}
\] & NEMA 1,2, 3, 4, 4X, 12, 13 \\
\hline Operating Temperature
\[
\mathrm{F}^{\circ}\left(\mathrm{C}^{\circ}\right)
\] & -4 to 140 (-20 to 60) & -13 to 140 (-25 to 60) & -13 to 140 (-25 to 60) & -13 to 140 (-25 to 60) & -13 to 140 (-25 to 60) \\
\hline ```
Storage Temperature F}\mp@subsup{}{}{\circ
(C')
``` & -4 to 140 (-20 to 60) & -40 to 158 (-40 to 70) & -40 to 158 (-40 to 70) & -40 to 158 (-40 to 70) & -40 to 158 (-40 to 70) \\
\hline Housing Material & Polycarbonate (PBT) & Polycarbonate / PET Polyester Blend & Yellow Polypropylene & Yellow Polypropylene & Yellow Polycarbonate \\
\hline \multirow[t]{2}{*}{Rated Operational Characteristics [1]} & \multirow[t]{2}{*}{\begin{tabular}{l}
ZBRH•H \\
AC - C300 \\
ZBRH•W \\
AC - B300 \\
DC - R300
\end{tabular}} & AC - B600 & \begin{tabular}{l}
AC-15: A600 \\
or \(\mathrm{Ue}=600 \mathrm{~V}\), le \(=1.2 \mathrm{~A}\) \\
or \(\mathrm{Ue}=240 \mathrm{~V}\), \(\mathrm{le}=3 \mathrm{~A}\)
\end{tabular} & \[
\begin{aligned}
& \hline \mathrm{AC}-15: \mathrm{A} 600 \\
& \text { or } \mathrm{Ue}=600 \mathrm{~V} \text {, } \mathrm{le}=1.2 \mathrm{~A} \\
& \text { or } \mathrm{Ue}=240 \mathrm{~V}, \mathrm{le}=3 \mathrm{~A} \\
& \hline
\end{aligned}
\] & \begin{tabular}{l}
SKRU2-SKRU5 \\
AC - B300 \\
DC - P600
\end{tabular} \\
\hline & & DC - P600 & \[
\begin{aligned}
& \text { DC-13: Q600 } \\
& \text { or } \mathrm{Ue}=600 \mathrm{~V} . \mathrm{le}=0.1 \mathrm{~A} \\
& \text { or } \mathrm{Ue}=250 \mathrm{~V}, \mathrm{le}=0.27 \mathrm{~A}
\end{aligned}
\] & \[
\begin{aligned}
& \hline \text { DC-13: Q600 } \\
& \text { or } \mathrm{Ue}=600 \mathrm{~V} \text {. le }=0.1 \mathrm{~A} \\
& \text { or } \mathrm{Ue}=250 \mathrm{~V}, \mathrm{le}=0.27 \mathrm{~A}
\end{aligned}
\] & \[
\begin{aligned}
& \text { SKRU1, 10, } 11 \\
& \text { AC - A600 } \\
& \text { DC - P600 }
\end{aligned}
\] \\
\hline Thermal Current & \[
\begin{array}{|l}
\hline \text { ZBRH•H - 4A } \\
\text { ZBRH•W -6A } \\
\hline
\end{array}
\] & Continuous 5A & Continuous 10A & Continuous 10A & - \\
\hline Connection Type & - & 1/2 in. NPT screw clamp terminals & \(8-26 \mathrm{~mm}\) cable entry screw clamp terminals & \(8-26 \mathrm{~mm}\) cable entry screw clamp terminals & NPT threaded conduit entry screw clamp terminals \\
\hline Cable Size & None: Wireless & - & \(1 \times 0.5 \mathrm{~mm}^{2}\) (20AWG) min. \(2 \times 1.5 \mathrm{~mm}^{2}\) (16AWG) max. \(1 \times 2.5 \mathrm{~mm}^{2}\) (14AWG) max. & \(1 \times 14\) AWG (copper only) & - \\
\hline Digest Location & XAR, page 19-125 & Type BW, page 19-127 & XAC, page 19-128 & XAC, page 19-128 & SKYP, page 19-131 \\
\hline
\end{tabular}

22 and 30 mm Most Common Complete Operators

XB4-XB5 Common Operators, Complete
with Contact Blocks
Refer to Catalogs DIA5ED2121212EN and DIA5ED2121213EN

Schneider
schneider-electric.us

XB4-XB5 Common Operators

Table 19.1: BLACK—Start Push Buttons (flush head)
\begin{tabular}{|c|c|c|c|c|}
\hline Operator Style & Description & Contact Block & Type & Legend Plate \\
\hline XB4 Die Cast Chrome &  & \[
\left.\right|_{1 \text { N.O. }} ^{\mid}
\] & XB4BA21 & ZBY2303 \\
\hline XB5 Double Insulated &  & \[
\left.\right|_{1 \text { N.O. }} ^{1}
\] & XB5AA21 & ZBY2303 \\
\hline
\end{tabular}

Table 19.3: BLACK—Off-On Selector Switch
\begin{tabular}{l|c|c|c|c}
\multicolumn{1}{c}{\begin{tabular}{c} 
Operator \\
Style
\end{tabular}} & Description & \begin{tabular}{c} 
Contact \\
Block
\end{tabular} & Type & Legend Plate \\
\begin{tabular}{l} 
XB4 Die Cast \\
Chrome
\end{tabular} & & XB4BD21 & ZBY2367 \\
\hline \begin{tabular}{l} 
XB5 Double \\
Insulated
\end{tabular} & & 1 N.O. & X & \\
\hline
\end{tabular}

Table 19.5: RED—120 Vac LED—On Pilot Light
\begin{tabular}{l|c|c|c|c}
\multicolumn{1}{c|}{\begin{tabular}{c} 
Operator \\
Style
\end{tabular}} & Description & \begin{tabular}{c} 
Contact \\
Block
\end{tabular} & Type & Legend Plate \\
\hline \begin{tabular}{l} 
XB4 Die Cast \\
Chrome
\end{tabular} & & \begin{tabular}{c}
120 Vac \\
Red LED
\end{tabular} & XB4BVG4 & ZBY2311 \\
\hline \begin{tabular}{l} 
XB5 Double \\
Insulated
\end{tabular} & & \begin{tabular}{c}
120 Vac \\
Red LED
\end{tabular} & XB5AVG4 & ZBY2311 \\
\hline
\end{tabular}

Table 19.7: RED-40 mm Mushroom Stop (Push-Pull)
\begin{tabular}{l|c|c|c|c}
\multicolumn{1}{c|}{\begin{tabular}{c} 
Operator \\
Style
\end{tabular}} & Description & \begin{tabular}{c} 
Contact \\
Block
\end{tabular} & Type & Legend Plate \\
\begin{tabular}{l} 
XB4 Die Cast \\
Chrome
\end{tabular} & & 4 & & \\
\hline \begin{tabular}{l} 
XB5 Double \\
Insulated
\end{tabular} & & XB4BT42 & ZBY9320 \\
\hline
\end{tabular}

Table 19.2: RED—Stop Push Buttons (extended head)
\begin{tabular}{l|c|c|c|c}
\begin{tabular}{c} 
Operator \\
Style
\end{tabular} & Description & \begin{tabular}{c} 
Contact \\
Block
\end{tabular} & Type & Legend Plate \\
\begin{tabular}{l} 
XB4 Die Cast \\
Chrome
\end{tabular} & & XB4BL42 & ZBY2304 \\
\begin{tabular}{l} 
XB5 Double \\
Insulated
\end{tabular} & & 1 N.C. & & \\
\hline
\end{tabular}

Table 19.4: Hand-Off-Auto Selector Switch
\begin{tabular}{l|c|c|c|c}
\begin{tabular}{c} 
Operator \\
Style
\end{tabular} & Description & \begin{tabular}{c} 
Contact \\
Block
\end{tabular} & Type & Legend Plate \\
\begin{tabular}{l} 
XB4 Die Cast \\
Chrome
\end{tabular} & & XB4BD33 & ZBY2387 \\
\begin{tabular}{l} 
XB5 Double \\
Insulated
\end{tabular} & & 2 & XB5AD33 & ZBY2387 \\
\hline
\end{tabular}

Table 19.6: GREEN—120 Vac LED—Off Pilot Light
\begin{tabular}{l|c|c|c|c}
\multicolumn{1}{c|}{\begin{tabular}{c} 
Operator \\
Style
\end{tabular}} & Description & \begin{tabular}{c} 
Contact \\
Block
\end{tabular} & Type & Legend Plate \\
\begin{tabular}{l} 
XB4 Die Cast \\
Chrome
\end{tabular} & & \begin{tabular}{c}
120 Vac \\
Green LED
\end{tabular} & XB4BVG3 & ZBY2312 \\
\hline \begin{tabular}{l} 
XB5 Double \\
Insulated
\end{tabular} & & \begin{tabular}{c}
120 Vac \\
Green LED
\end{tabular} & XB5AVG3 & ZBY2312 \\
\hline
\end{tabular}

Table 19.8: RED-40 mm Mushroom Emergency Stop (Trigger Action, Turn-to-Release)
\begin{tabular}{l|c|c|c|c}
\begin{tabular}{c} 
Operator \\
Style
\end{tabular} & Description & \begin{tabular}{c} 
Contact \\
Block
\end{tabular} & Type & \begin{tabular}{c} 
Legend \\
Plate \\
60 mm \\
Round
\end{tabular} \\
\begin{tabular}{l} 
XB4 Die Cast \\
Chrome
\end{tabular} & & 1 N.O./1 N.C. & & \\
\hline \begin{tabular}{l} 
XB5 Double \\
Insulated
\end{tabular} & & XB4BS8445 & ZBY9320 \\
\hline
\end{tabular}

Type K, SK Common Operators, Complete with Contact Blocks

22 and 30 mm Most Common Complete Operators

Type K and SK Common Operators
\begin{tabular}{|c|c|c|c|c|}
\hline Operator Style & Description & Contact Block & Type [1] & Legend Plate [1] \\
\hline 30 mm Industrial (Metal) &  & \(\bigcirc\) & KR1BH13 & KN201 \\
\hline 30 mm Corrosion Resistant (Non-Metallic) &  & \(\bigcirc\) & SKR1BH13 & KN101SP \\
\hline
\end{tabular}

Table 19.10: RED—Stop Push Buttons
\begin{tabular}{l|c|c|c|c}
\multicolumn{1}{c|}{\begin{tabular}{c} 
Operator \\
Style
\end{tabular}} & Description & \begin{tabular}{c} 
Contact \\
Block
\end{tabular} & Type [1] & \begin{tabular}{l} 
Legend \\
Plate [1]
\end{tabular} \\
\begin{tabular}{l}
30 mm \\
\begin{tabular}{l} 
Industrial \\
(Metal)
\end{tabular} \\
\hline
\end{tabular} & & O & & \\
\hline \begin{tabular}{l} 
Corrosion \\
Resistant \\
(Non- \\
Metallic)
\end{tabular} & & 0 & KR1RH13 & KN202 \\
\hline
\end{tabular}

Table 19.11: BLACK—Off-On Selector Switch
\begin{tabular}{|c|c|c|c|c|}
\hline \[
\begin{aligned}
& \text { Operator } \\
& \text { Style }
\end{aligned}
\] & Description & Contact
Sequence
(Contact Block
Included) & Type [1] & Legend
Plate \\
\hline 30 mm Industrial (Metal) & n & \multirow{2}{*}{\[
\begin{array}{ll}
\begin{array}{r}
1 \\
1
\end{array} \\
0 & 1
\end{array}
\]} & KS11BH13 & KN244 \\
\hline 30 mm Corrosion Resistant
(Non-Metallic) & & & SKS11BH13 & KN144SP \\
\hline
\end{tabular}

Table 19.12: BLACK—Hand-Off-Auto Selector Switch
\begin{tabular}{|c|c|c|c|c|}
\hline \[
\begin{aligned}
& \text { Operator } \\
& \text { Style }
\end{aligned}
\] & Description & Contact
Sequance
(Contcot
Block
Included) & Type [1] & Legend
Plate 11\(]\) \\
\hline \[
\begin{aligned}
& 30 \mathrm{~mm} \\
& \text { Industrial } \\
& \text { (Metal) }
\end{aligned}
\]
(Metal &  & \multirow{2}{*}{} & KS43BH13 & KN260 \\
\hline \begin{tabular}{l}
30 mm \\
Corrosion \\
Resistant \\
Non \\
Metallic) \\
\hline
\end{tabular} & & & SKS43BH13 & KN160SP \\
\hline
\end{tabular}

Table 19.13: RED—120 Vac—On Pilot Light
\begin{tabular}{lc|c|c}
\multicolumn{1}{c}{\begin{tabular}{c} 
Operator \\
Style
\end{tabular}} & Description & Type [1] & Legend Plate \\
\hline \begin{tabular}{l}
30 mm \\
Industrial \\
(Metal)
\end{tabular} & B)
\end{tabular}

Table 19.15: RED—120 Vac—On Push-To-Test Pilot Light
\begin{tabular}{|c|c|c|c|}
\hline Operator Style & Description & Type [1] & Legend Plate [1] \\
\hline 30 mm Industrial (Metal) &  & KT1R31 & KN203 \\
\hline 30 mm Corrosion Resistant (Non-Metallic) & & SKT1R31 & KN103SP \\
\hline
\end{tabular}

Table 19.14: GREEN—120 Vac—Off Pilot Light
\begin{tabular}{l|c|c|c}
\multicolumn{1}{c|}{\begin{tabular}{c} 
Operator \\
Style
\end{tabular}} & Description & Type [1] & \begin{tabular}{c} 
Legend Plate \\
{\([1]\)}
\end{tabular} \\
\hline \begin{tabular}{l}
30 mm \\
Industrial \\
(Metal)
\end{tabular} & & KP1G31 & KN204 \\
\hline \begin{tabular}{l}
30 mm \\
\begin{tabular}{l} 
Corrosion \\
Resistant \\
(Non- \\
Metallic)
\end{tabular}
\end{tabular} & & SKP1G31 & KN104SP \\
\hline
\end{tabular}

Table 19.16: GREEN—120 Vac—Off Push-To-Test Pilot Light
\begin{tabular}{l|c|c|c}
\begin{tabular}{c} 
Operator \\
Style
\end{tabular} & Description & Type [1] & \begin{tabular}{c} 
Legend Plate \\
[1]
\end{tabular} \\
\hline \begin{tabular}{l}
30 mm \\
Industrial \\
(Metal)
\end{tabular} & & KT1G31 & KN204 \\
\hline \begin{tabular}{l}
30 mm \\
Corrosion \\
Resistant \\
(Non- \\
Metallic)
\end{tabular} & & & SKT1G31
\end{tabular} KN104RP

XVL Miniature LED
Table 19.17: Specifications
\begin{tabular}{l|l}
\hline Conforming to standards & IEC 337-2, NF C 63-140, VDE 0660-200 \\
\hline Degree of protection & IP40 (IP65 with seal) conforming to IEC 529 and NF C 20-010 \\
\hline Current consumption & 25 mA \\
\hline & \begin{tabular}{l} 
XVLA1 \(\bullet \bullet\), XVLA2 \(\bullet \bullet\) : tags for \(2.8 \times 0.5 \mathrm{~mm}\) Faston connectors, also for \\
soldered connections. \\
XVLA3 \(\bullet \cdot\) threaded connectors, clamping, capacity: min. \(1 \times 0.2 \mathrm{~mm}^{2}\), max. \(1 \times\) \\
\(1.5 \mathrm{~mm}^{2}\)
\end{tabular} \\
\hline
\end{tabular}

Table 19.18: With Black Bezel, Raised LED

\begin{tabular}{|c|c|c|c|}
\hline Description & Supply Voltage DC & Color & Catalog Number \\
\hline \multirow[t]{6}{*}{\begin{tabular}{l}
\(\varnothing 8\) mm [1] \\
with integral ballast resistor \\
and reverse polarity protection diode Degree of protection IP40 \\
LED pilot lights \(\varnothing 8 \mathrm{~mm}\), with black bezel, visible LED XVLA1••
\end{tabular}} & \multirow{3}{*}{12 V} & Green & XVLA123 \\
\hline & & Red & XVLA124 \\
\hline & & Amber & XVLA125 \\
\hline & \multirow{3}{*}{24 V} & Green & XVLA133 \\
\hline & & Red & XVLA134 \\
\hline & & Amber & XVLA135 \\
\hline
\end{tabular}

Table 19.19: With Integral Lens Cap, Covered LED
\begin{tabular}{|c|c|c|c|}
\hline Description & Supply Voltage DC & Color & Catalog Number \\
\hline \multirow[t]{6}{*}{\begin{tabular}{l}
Ø \(8 \mathrm{~mm}[1]\) \\
with integral ballast resistor and reverse polarity protection diode Degree of protection IP40 \(\varnothing 8 \mathrm{~mm}\), with lens incorporated, LED XVLA2
\end{tabular}} & \multirow{3}{*}{12 V} & Green & XVLA223 \\
\hline & & Red & XVLA224 \\
\hline & & Amber & XVLA225 \\
\hline & \multirow{3}{*}{24 V} & Green & XVLA233 \\
\hline & & Red & XVLA234 \\
\hline & & Amber & XVLA235 \\
\hline \multirow[t]{6}{*}{\begin{tabular}{l}
Ø 12 mm [2] \\
with integral ballast resistor \\
and reverse polarity protection diode \\
Degree of protection IP40 \\
\(\varnothing 12 \mathrm{~mm}\), with lens incorporated, \\
LED XVLA3
\end{tabular}} & \multirow{3}{*}{12 V} & Green & XVLA323 \\
\hline & & Red & XVLA324 \\
\hline & & Amber & XVLA325 \\
\hline & \multirow{3}{*}{24 V} & Green & XVLA333 \\
\hline & & Red & XVLA334 \\
\hline & & Amber & XVLA335 \\
\hline
\end{tabular}

Table 19.20: Accessories
\begin{tabular}{|c|c|c|}
\hline \multicolumn{2}{|r|}{Description} & Catalog Number \\
\hline \multirow[t]{2}{*}{Tightening tools (Sold singly)} & For \(\varnothing 8 \mathrm{~mm}\) pilot lights & XVLX08 \\
\hline & For \(\varnothing 12 \mathrm{~mm}\) pilot lights & XVLX12 \\
\hline \multirow[t]{2}{*}{Seals (IP65) (Sold in lots of 10)} & For \(\varnothing 8 \mathrm{~mm}\) pilot lights & XVLZ911 \\
\hline & For Ø 12 mm pilot lights & XVLZ912 \\
\hline
\end{tabular}


Type JP1R29

Standard, Push-To-Test, and Remote Test Pilot Lights
Class 9001 Type J compact pilot lights are designed to be mounted in a 0.69 in . (11/16 in. or 17.5 mm ) diameter mounting hole. Each terminal accepts up to two 14 AWG wires (CU only). Type J compact pilot lights meet NEMA 4 (watertight) and NEMA 13 (oiltight). Type JT push-to-test pilot lights have contacts built into the encapsulated body. Type JTR remote test pilot lights have dual inputs for one push remote testing-all you need is a push button with a current rating equal to or greater than the total lamp draw. Type JTR remote test pilot lights can also be energized from two separate input signals of the same voltage and polarity. This is done by wiring the Test terminal to the second input signal.

Table 19.21: Standard Pilot Light \({ }_{[3]}\)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Style/Voltage}} & \multicolumn{4}{|c|}{Color Cap[4]} & \multirow[t]{2}{*}{Lamp} & \multirow[t]{2}{*}{Replacement Lamp} \\
\hline & & None & Red & Green & Yellow & & \\
\hline \multicolumn{2}{|l|}{Transformer,
\[
110-120 \mathrm{~V}, 50-60 \mathrm{~Hz}
\]} & JP1 & JP1R29 & JP1G29 & JP1Y29 & \[
\begin{aligned}
& 6.3 \mathrm{~V}, \\
& 0.15 \mathrm{~A} \\
& \hline
\end{aligned}
\] & 2550101020 \\
\hline \multicolumn{2}{|l|}{Incandescent, \(120 \mathrm{Vac} / \mathrm{Vdc}\)} & JP38 & JP38R29 & JP38G29 & JP38Y29 & \[
\begin{array}{|l|}
\hline 120 \mathrm{~V}, \\
0.015 \mathrm{~A} \\
\hline
\end{array}
\] & 2550101040 \\
\hline \multicolumn{2}{|l|}{Incandescent, 24-28 Vac/Vdc} & JP35 & JP35R29 & JP35G29 & JP35Y29 & \[
\begin{array}{|l|}
\hline 28 \mathrm{~V}, \\
0.040 \mathrm{~A} \\
\hline
\end{array}
\] & 2550101024 \\
\hline \multicolumn{2}{|l|}{LED, 24-28 Vac} & - & JP35LRR29 & JP35LGG29 & JP35LYY29 & \[
\begin{aligned}
& 28 \mathrm{~V}, \\
& 0.03 \mathrm{~A}
\end{aligned}
\] & - \\
\hline \multicolumn{2}{|l|}{LED, \(24-28 \mathrm{Vdc}\)} & - & JP35DRR29 & JP35DGG29 & JP35DYY29 & \[
\begin{aligned}
& 28 \mathrm{~V}, \\
& 0.03 \mathrm{~A}
\end{aligned}
\] & - \\
\hline \multicolumn{2}{|l|}{LED, 120 Vac} & - & JP38LRR29 & JP38LGG29 & JP38LYY29 & \[
\begin{aligned}
& 28 \mathrm{~V}, \\
& 0.03 \mathrm{~A}
\end{aligned}
\] & - \\
\hline \multirow{3}{*}{Replacement LED, 120 Vac} & Red & - & - & - & - & - & 6508805207 \\
\hline & Yellow & - & - & - & - & - & 6508805208 \\
\hline & Green & - & - & - & - & - & 6508805209 \\
\hline
\end{tabular}

Table 19.22: Push-To-Test Pilot Light \({ }_{[3]}\)
\begin{tabular}{l|c|c|c|c|c|c}
\multirow{2}{*}{\multicolumn{1}{c|}{ Style/Voltage }} & \multicolumn{5}{c|}{ Color Cap/4] } & Lamp
\end{tabular} \(\left.\begin{array}{c}\text { Replace- } \\
\text { ment } \\
\text { Lamp }\end{array}\right]\)

Table 19.23: Color Caps, Class 9001 Type J
\begin{tabular}{c|c} 
Color & Replacement Color Caps \\
\cline { 2 - 2 } & Plastic[4] \\
Red & R29 \\
Green & G29 \\
Amber & A29 \\
Whe & L29 \\
Yellow & W29 \\
\hline
\end{tabular}

Table 19.24: Legend Plates
\begin{tabular}{c|c|c|c|c|c} 
Description & \begin{tabular}{c} 
Maximum \\
Number of \\
Lines
\end{tabular} & \begin{tabular}{c} 
Maximum \\
Number of \\
Characters
\end{tabular} & \begin{tabular}{c} 
Catalog \\
Number[4]
\end{tabular} \\
\hline & Blank & \begin{tabular}{c} 
Black Field \\
Red Field
\end{tabular} & & & \begin{tabular}{c} 
JN100 \\
JN100R
\end{tabular} \\
\hline & \begin{tabular}{c} 
Special \\
Marking \\
(Specify \\
Marking)
\end{tabular} & \begin{tabular}{c} 
Black Field \\
Red Field
\end{tabular} & 2 & 8 & JN199 \\
JN199R
\end{tabular}
schneider-electric.us


XB6 Complete Devices
Table 19.25: Illuminated Push Buttons (12-24 Vac/Vdc LED included) Complete Units with Quick Connectors/Solder Tabs
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Type of Operator} & \multicolumn{2}{|l|}{Type of Contact} & \multirow[t]{2}{*}{Color} & Rectangular & Square &  \\
\hline & N.O. & N.C. & & \multicolumn{3}{|l|}{Catalog Number} \\
\hline \multirow{10}{*}{Flush, spring return} & \multirow{4}{*}{1} & \multirow{4}{*}{-} & White & XB6DW1B1B & XB6CW1B1B & XB6AW1B1B \\
\hline & & & Green & XB6DW3B1B & XB6CW3B1B & XB6AW3B1B \\
\hline & & & Yellow & XB6DW5B1B & XB6CW5B1B & XB6AW5B1B \\
\hline & & & Blue & XB6DW6B1B & XB6CW6B1B & XB6AW6B1B \\
\hline & - & 1 & Red & XB6DW4B2B & XB6CW4B2B & XB6AW4B2B \\
\hline & \multirow{5}{*}{1} & \multirow{5}{*}{1} & White & XB6DW1B5B & XB6CW1B5B & XB6AW1B5B \\
\hline & & & Green & XB6DW3B5B & XB6CW3B5B & XB6AW3B5B \\
\hline & & & Red & XB6DW4B5B & XB6CW4B5B & XB6AW4B5B \\
\hline & & & Yellow & XB6DW5B5B & XB6CW5B5B & XB6AW5B5B \\
\hline & & & Blue & XB6DW6B5B & XB6CW6B5B & XB6AW6B5B \\
\hline \multirow{10}{*}{Flush, maintained} & \multirow{4}{*}{1} & \multirow{4}{*}{-} & White & XB6DF1B1B & XB6CF1B1B & XB6AF1B1B \\
\hline & & & Green & XB6DF3B1B & XB6CF3B1B & XB6AF3B1B \\
\hline & & & Yellow & XB6DF5B1B & XB6CF5B1B & XB6AF5B1B \\
\hline & & & Blue & XB6DF6B1B & XB6CF6B1B & XB6AF6B1B \\
\hline & - & 1 & Red & XB6DF4B2B & XB6CF4B2B & XB6AF4B2B \\
\hline & \multirow{5}{*}{1} & \multirow{5}{*}{1} & White & XB6DF1B5B & XB6CF1B5B & XB6AF1B5B \\
\hline & & & Green & XB6DF3B5B & XB6CF3B5B & XB6AF3B5B \\
\hline & & & Red & XB6DF4B5B & XB6CF4B5B & XB6AF4B5B \\
\hline & & & Yellow & XB6DF5B5B & XB6CF5B5B & XB6AF5B5B \\
\hline & & & Blue & XB6DF6B5B & XB6CF6B5B & XB6AF6B5B \\
\hline \multirow{10}{*}{Extended, spring return} & \multirow{4}{*}{1} & \multirow{4}{*}{-} & White & XB6DE1B1B & XB6CE1B1B & XB6AE1B1B \\
\hline & & & Green & XB6DE3B1B & XB6CE3B1B & XB6AE3B1B \\
\hline & & & Yellow & XB6DE5B1B & XB6CE5B1B & XB6AE5B1B \\
\hline & & & Blue & XB6DE6B1B & XB6CE6B1B & XB6AE6B1B \\
\hline & - & 1 & Red & XB6DE4B2B & XB6CE4B2B & XB6AE4B2B \\
\hline & \multirow{5}{*}{1} & \multirow[t]{5}{*}{1} & White & XB6DE1B5B & XB6CE1B5B & XB6AE1B5B \\
\hline & & & Green & XB6DE3B5B & XB6CE3B5B & XB6AE3B5B \\
\hline & & & Red & XB6DE4B5B & XB6CE4B5B & XB6AE4B5B \\
\hline & & & Yellow & XB6DE5B5B & XB6CE5B5B & XB6AE5B5B \\
\hline & & & Blue & XB6DE6B5B & XB6CE6B5B & XB6AE6B5B \\
\hline
\end{tabular}

Table 19.26: Illuminated Push Buttons (120 Vac LED included)
Complete Units with Quick Connectors/Solder Tabs
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Type of Operator} & \multicolumn{2}{|l|}{Type of Contact} & \multirow[t]{2}{*}{Color} &  &  &  \\
\hline & N.O. & N.C. & & \multicolumn{3}{|c|}{Catalog Number} \\
\hline \multirow{10}{*}{Flush, spring return} & \multirow{4}{*}{1} & \multirow{4}{*}{-} & White & XB6DW1G1B & XB6CW1G1B & XB6AW1G1B \\
\hline & & & Green & XB6DW3G1B & XB6CW3G1B & XB6AW3G1B \\
\hline & & & Yellow & XB6DW5G1B & XB6CW5G1B & XB6AW5G1B \\
\hline & & & Blue & XB6DW6G1B & XB6CW6G1B & XB6AW6G1B \\
\hline & - & 1 & Red & XB6DW4G2B & XB6CW4G2B & XB6AW4G2B \\
\hline & \multirow[t]{5}{*}{1} & \multirow{5}{*}{1} & White & XB6DW1G5B & XB6CW1G5B & XB6AW1G5B \\
\hline & & & Green & XB6DW3G5B & XB6CW3G5B & XB6AW3G5B \\
\hline & & & Red & XB6DW4G5B & XB6CW4G5B & XB6AW4G5B \\
\hline & & & Yellow & XB6DW5G5B & XB6CW5G5B & XB6AW5G5B \\
\hline & & & Blue & XB6DW6G5B & XB6CW6G5B & XB6AW6G5B \\
\hline \multirow{10}{*}{Flush, maintained} & \multirow{4}{*}{1} & \multirow{4}{*}{-} & White & XB6DF1G1B & XB6CF1G1B & XB6AF1G1B \\
\hline & & & Green & XB6DF3G1B & XB6CF3G1B & XB6AF3G1B \\
\hline & & & Yellow & XB6DF5G1B & XB6CF5G1B & XB6AF5G1B \\
\hline & & & Blue & XB6DF6G1B & XB6CF6G1B & XB6AF6G1B \\
\hline & - & 1 & Red & XB6DF4G2B & XB6CF4G2B & XB6AF4G2B \\
\hline & \multirow{5}{*}{1} & \multirow{5}{*}{1} & White & XB6DF1G5B & XB6CF1G5B & XB6AF1G5B \\
\hline & & & Green & XB6DF3G5B & XB6CF3G5B & XB6AF3G5B \\
\hline & & & Red & XB6DF4G5B & XB6CF4G5B & XB6AF4G5B \\
\hline & & & Yellow & XB6DF5G5B & XB6CF5G5B & XB6AF5G5B \\
\hline & & & Blue & XB6DF6G5B & XB6CF6G5B & XB6AF6G5B \\
\hline \multirow{10}{*}{Extended, spring return} & \multirow{4}{*}{1} & \multirow{4}{*}{-} & White & XB6DE1G1B & XB6CE1G1B & XB6AE1G1B \\
\hline & & & Green & XB6DE3G1B & XB6CE3G1B & XB6AE3G1B \\
\hline & & & Yellow & XB6DE5G1B & XB6CE5G1B & XB6AE5G1B \\
\hline & & & Blue & XB6DE6G1B & XB6CE6G1B & XB6AE6G1B \\
\hline & - & 1 & Red & XB6DE4G2B & XB6CE4G2B & XB6AE4G2B \\
\hline & \multirow{5}{*}{1} & \multirow{5}{*}{1} & White & XB6DE1G5B & XB6CE1G5B & XB6AE1G5B \\
\hline & & & Green & XB6DE3G5B & XB6CE3G5B & XB6AE3G5B \\
\hline & & & Red & XB6DE4G5B & XB6CE4G5B & XB6AE4G5B \\
\hline & & & Yellow & XB6DE5G5B & XB6CE5G5B & XB6AE5G5B \\
\hline & & & Blue & XB6DE6G5B & XB6CE6G5B & XB6AE6G5B \\
\hline
\end{tabular}

For Legends, see XB6 Legend Plates and Legends, page 19-20
Table 19.27: Pilot Lights (12-24 Vac/Vdc LED included) Complete Units with Quick Connectors/Solder Tabs
\begin{tabular}{|c|c|c|c|}
\hline \multirow[t]{2}{*}{Color} & Rectangular & Square &  \\
\hline & \multicolumn{3}{|c|}{Catalog Number} \\
\hline White & XB6DV1BB & XB6CV1BB & XB6AV1BB \\
\hline Green & XB6DV3BB & XB6CV3BB & XB6AV3BB \\
\hline Red & XB6DV4BB & XB6CV4BB & XB6AV4BB \\
\hline Yellow & XB6DV5BB & XB6CV5BB & XB6AV5BB \\
\hline Blue & XB6DV6BB & XB6CV6BB & XB6AV6BB \\
\hline
\end{tabular}
Table 19.28: Pilot Lights (120 Vac LED)
Complete Units with Quick Connectors/Solder Tabs
\begin{tabular}{|c|c|c|c|}
\hline \multirow[t]{2}{*}{Color} & \[
\begin{array}{r}
\square \\
\text { Rectangular }
\end{array}
\] & Square & Round \\
\hline & \multicolumn{3}{|c|}{Catalog Number} \\
\hline White & XB6DV1GB & XB6CV1GB & XB6AV1GB \\
\hline Green & XB6DV3GB & XB6CV3GB & XB6AV3GB \\
\hline Red & XB6DV4GB & XB6CV4GB & XB6AV4GB \\
\hline Yellow & XB6DV5GB & XB6CV5GB & XB6AV5GB \\
\hline Blue & XB6DV6GB & XB6CV6GB & XB6AV6GB \\
\hline
\end{tabular}
Table 19.29: Push Buttons (Non-Illuminated)
Complete Units with Quick Connectors/Solder Tabs
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Type of Push} & \multicolumn{2}{|l|}{Type of Contact} & \multirow[t]{2}{*}{Color} & Rectangular & Square &  \\
\hline & N.O. & N.C. & & & atalog Num & \\
\hline \multirow{13}{*}{Flush, spring return} & \multirow{5}{*}{1} & \multirow{5}{*}{-} & White & XB6DA11B & XB6CA11B & XB6AA11B \\
\hline & & & Black & XB6DA21B & XB6CA21B & XB6AA21B \\
\hline & & & Green & XB6DA31B & XB6CA31B & XB6AA31B \\
\hline & & & Yellow & XB6DA51B & XB6CA51B & XB6AA51B \\
\hline & & & Blue & XB6DA61B & XB6CA61B & XB6AA61B \\
\hline & \multirow[b]{2}{*}{-} & \multirow[b]{2}{*}{1} & Black & XB6DA22B & XB6CA22B & XB6AA22B \\
\hline & & & Red & XB6DA42B & XB6CA42B & XB6AA42B \\
\hline & \multirow{6}{*}{1} & \multirow{6}{*}{1} & White & XB6DA15B & XB6CA15B & XB6AA15B \\
\hline & & & Black & XB6DA25B & XB6CA25B & XB6AA25B \\
\hline & & & Green & XB6DA35B & XB6CA35B & XB6AA35B \\
\hline & & & Red & XB6DA45B & XB6CA45B & XB6AA45B \\
\hline & & & Yellow & XB6DA55B & XB6CA55B & XB6AA55B \\
\hline & & & Blue & XB6DA65B & XB6CA65B & XB6AA65B \\
\hline
\end{tabular}
Table 19.30: Trigger Action Emergency Stop Mushroom Head Push Buttons (Color Red) [1]
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of Head} & \multirow[t]{2}{*}{Type of Push} & \multicolumn{2}{|c|}{Type of Contact} & \multirow[t]{2}{*}{Diameter of Head (mm)} & \multirow[t]{2}{*}{Catalog Number} \\
\hline & & N.O. & N.C. & & \\
\hline & \multirow[b]{2}{*}{Turn-to-release} & - & 1 & 30 & XB6AS8342B \\
\hline & & 1 & 1 & 30 & XB6AS8345B \\
\hline \multirow[t]{2}{*}{(1)} & \multirow[t]{2}{*}{Key release} & - & 1 & 30 & XB6AS9342B [2] \\
\hline & & 1 & 1 & 30 & XB6AS9345B [2] \\
\hline
\end{tabular}
Table 19.31: Circular Legends, 45 mm
\begin{tabular}{c|c|c|c} 
Description & Color & Text & Catalog Number \\
\multirow{2}{*}{ Circular legends, 45 mm} & Yellow & Blank & ZB6Y7001 \\
\hline
\end{tabular}
For Legends, see XB6 Legend Plates and Legends, page 19-20


Table 19.32: Selector Switches (Switching Angle: Handle: 60) Complete Units with Quick Connectors/Solder Tabs
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Type of Operator} & \multicolumn{2}{|l|}{Type of Contact} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Number and Type of Positions}} & Rectangular & Square &  \\
\hline & N.O. & N.C. & & & \multicolumn{3}{|c|}{Catalog Number} \\
\hline \multirow{4}{*}{Handle} & 1 & - & \[
\frac{2-}{\text { maintained }}
\] & \(V\) & XB6DD221B & XB6CD221B & XB6AD221B \\
\hline & \multirow[t]{2}{*}{1} & \multirow[t]{2}{*}{1} & \[
\frac{2-}{\text { maintained }}
\] & \(V\) & XB6DD225B & XB6CD225B & XB6AD225B \\
\hline & & & 3maintained & \(\downarrow\) & XB6DD235B & XB6CD235B & XB6AD235B \\
\hline & 2 & - & 3maintained &  & XB6DD233B & XB6CD233B & XB6AD233B \\
\hline
\end{tabular}

Table 19.33: Selector Switches (Switching Angle: Key: \(7 \mathbf{7 0}^{\circ}\) ) Complete Units with Quick Connectors/Solder Tabs
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Type of Operator} & \multicolumn{2}{|l|}{Type of Contact} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Number and Type of Positions}} & Rectangular &  &  \\
\hline & N.O. & N.C. & & & \multicolumn{3}{|c|}{Catalog Number} \\
\hline \multirow{4}{*}{Key} & \multirow{3}{*}{1} & \multirow{3}{*}{1} & \[
\stackrel{2-}{\text { maintained }}
\] & 88 & XB6DGC5B & XB6CGC5B & XB6AGC5B \\
\hline & & & \[
\underset{\text { maintained }}{2-}
\] & \[
8
\] & XB6DGB5B & XB6CGB5B & XB6AGB5B \\
\hline & & & \[
\underset{\text { maintained }}{3-}
\] & 48 & XB6DGH5B & XB6CGH5B & XB6AGH5B \\
\hline & 2 & - & \[
\stackrel{3-}{3-}
\] & 88 & XB6DGH3B & XB6CGH3B & XB6AGH3B \\
\hline
\end{tabular}

NOTE: The symbol 8 indicates key withdrawal position(s).
Table 19.34: Selector Switch Sequence
\begin{tabular}{|c|c|c|c|}
\hline \multicolumn{4}{|c|}{2 Position Selector Switch} \\
\hline (1) & & (1) & Contact block guide [3] \\
\hline 0 & & X & 1 N.O. (left or right) \\
\hline X & & 0 & 1 N.C. (left or right) \\
\hline \begin{tabular}{l}
O \\
\(\times\) \\
\hline
\end{tabular} & & X
0 & \[
\begin{array}{|l}
\hline 1 \text { N.O. } \\
\text { and } \\
1 \text { N.C. }
\end{array}
\] \\
\hline \multicolumn{4}{|l|}{3 Position Selector Switch} \\
\hline (1) & (1) & (1) & Contact block guide [3] \\
\hline 0 & 0 & X & 1 N.O. (left) \\
\hline X & 0 & X & 2 N.O. wired in parallel (side by side) \\
\hline X & 0 & 0 & 1 N.O. (right) \\
\hline 0 & X & X & 1 N.C. (right) \\
\hline X & X & 0 & 1 N.C. (left) \\
\hline 0 & X & 0 & 2 N.C. wired in series (side by side) \\
\hline
\end{tabular}

For Legends, see Legend Plates and Legends, page 19-20


XB6 Electrical Components
Table 19.35: Contact Blocks and Light Modules for Illuminated Push Buttons [4]
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Description} & \multirow[t]{2}{*}{Supply Voltage} & \multicolumn{2}{|l|}{Type of Contact} & \multirow[t]{2}{*}{Color of Light Source} & \multirow[t]{2}{*}{Catalog Number} \\
\hline & & N.O. & N.C. & & \\
\hline \multicolumn{6}{|l|}{Quick connectors/solder tabs} \\
\hline \multirow{22}{*}{Integral LED [5]} & \multirow{11}{*}{\[
\begin{gathered}
\text { 12-24 Vac/ } \\
\text { Vdc }
\end{gathered}
\]} & \multirow{4}{*}{1} & \multirow{4}{*}{-} & White & ZB6ZB11B \\
\hline & & & & Green & ZB6ZB31B \\
\hline & & & & Yellow & ZB6ZB51B \\
\hline & & & & Blue & ZB6ZB61B \\
\hline & & \multirow[b]{2}{*}{-} & \multirow[b]{2}{*}{1} & Red & ZB6ZB42B \\
\hline & & & & Yellow & ZB6ZB52B \\
\hline & & \multirow{5}{*}{1} & \multirow{5}{*}{1} & White & ZB6ZB15B \\
\hline & & & & Green & ZB6ZB35B \\
\hline & & & & Red & ZB6ZB45B \\
\hline & & & & Yellow & ZB6ZB55B \\
\hline & & & & Blue & ZB6ZB65B \\
\hline & \multirow{11}{*}{120 Vac} & \multirow{4}{*}{1} & \multirow{4}{*}{-} & White & ZB6ZG11B \\
\hline & & & & Green & ZB6ZG31B \\
\hline & & & & Yellow & ZB6ZG51B \\
\hline & & & & Blue & ZB6ZG61B \\
\hline & & \multirow[t]{2}{*}{-} & \multirow[t]{2}{*}{1} & Red & ZB6ZG42B \\
\hline & & & & Yellow & ZB6ZG52B \\
\hline & & \multirow{5}{*}{1} & \multirow{5}{*}{1} & White & ZB6ZG15B \\
\hline & & & & Green & ZB6ZG35B \\
\hline & & & & Red & ZB6ZG45B \\
\hline & & & & Yellow & ZB6ZG55B \\
\hline & & & & Blue & ZB6ZG65B \\
\hline \multirow[t]{3}{*}{Direct for incandescent bulb (not included) [6]} & \multirow{3}{*}{<24 Vac/Vdc} & 1 & - & - & ZB6ZH01B \\
\hline & & - & 1 & - & ZB6ZH02B \\
\hline & & 1 & 1 & - & ZB6ZH05B \\
\hline
\end{tabular}

Table 19.36: Contact Blocks for Push Buttons and Selector Switches
\begin{tabular}{|c|c|c|c|}
\hline \multirow[b]{2}{*}{Description} & \multicolumn{2}{|c|}{Type of Contact} & \multirow[t]{2}{*}{Catalog Number} \\
\hline & N.O. & N.C. & \\
\hline \multicolumn{4}{|l|}{Quick connectors/solder tabs} \\
\hline \multirow{5}{*}{Contact blocks with mounting base} & 1 & - & ZB6Z1B \\
\hline & - & 1 & ZB6Z2B \\
\hline & 2 & - & ZB6Z3B \\
\hline & - & 2 & ZB6Z4B \\
\hline & 1 & 1 & ZB6Z5B \\
\hline
\end{tabular}

Table 19.37: Light Modules for Pilot Lights


ZB6E••B

\begin{tabular}{|c|c|c|c|}
\hline Description & Supply Voltage & Color of Light Source & Catalog Number \\
\hline \multicolumn{4}{|l|}{Quick connectors/solder tabs [7]} \\
\hline \multirow{10}{*}{Integral LED [8]} & \multirow{5}{*}{12-24 Vac/Vdc} & White & ZB6EB1B \\
\hline & & Green & ZB6EB3B \\
\hline & & Red & ZB6EB4B \\
\hline & & Yellow & ZB6EB5B \\
\hline & & Blue & ZB6EB6B \\
\hline & \multirow{5}{*}{120 Vac} & White & ZB6EG1B \\
\hline & & Green & ZB6EG3B \\
\hline & & Red & ZB6EG4B \\
\hline & & Yellow & ZB6EG5B \\
\hline & & Blue & ZB6EG6B \\
\hline \multirow[t]{2}{*}{With resistor for 95 V neon bulb (not included) [6] [9]} & 110 Vac & - & ZB6EG0B \\
\hline & 230 Vac & - & ZB6EM0B \\
\hline Direct supply for 0.6 W max. incandescent bulb (not included) [6] & < \(24 \mathrm{Vac} / \mathrm{Vdc}\) & - & ZB6EH0B \\
\hline
\end{tabular}

Table 19.38: Separate Contact Blocks (Maximum of 3 contacts per mounting base.)
\begin{tabular}{l|c|c|c|c}
\multirow{2}{*}{ Contact Material } & \multirow{2}{*}{ For use with mounting base } & \multicolumn{2}{|c}{ Type of Contact } & \multirow{2}{*}{ Catalog Number } \\
\cline { 3 - 5 } & \multirow{2}{*}{ N.C. } & N.O. & - & ZB6E1B \\
\hline Silver alloy & \multirow{2}{*}{ Quick connectors/solder tabs } & 1 & - & 1 \\
\cline { 3 - 5 } & \multirow{2}{*}{ Gold flashed } & \multirow{2}{*}{ Quick connectors/solder tabs } & 1 & - \\
\hline
\end{tabular}

Table 19.39: Accessories for Printed Circuit Board Installations
\begin{tabular}{l|l|c} 
Description & for use with & \begin{tabular}{c} 
Catalog \\
Number
\end{tabular} \\
\hline Plug-in Socket Adapter & contact blocks and light modules & ZB6Y010 \\
\hline Body Bracket & plug-in socket adapter & ZB6Y011 \\
\hline
\end{tabular}

XB6 Illuminated Operators
Table 19.40: Heads for Illuminated Push Buttons \([10]\)

\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Type of Push} & \multirow[t]{2}{*}{Color} & Rectangular & Square &  \\
\hline & & \multicolumn{3}{|c|}{Catalog Number} \\
\hline \multirow{6}{*}{Flush, spring return} & White & ZB6DW1 & ZB6CW1 & ZB6AW1 \\
\hline & Green & ZB6DW3 & ZB6CW3 & ZB6AW3 \\
\hline & Red & ZB6DW4 & ZB6CW4 & ZB6AW4 \\
\hline & Yellow & ZB6DW5 & ZB6CW5 & ZB6AW5 \\
\hline & Blue & ZB6DW6 & ZB6CW6 & ZB6AW6 \\
\hline & 5 colors [11] & ZB6DW9 & ZB6CW9 & ZB6AW9 \\
\hline \multirow{6}{*}{Flush, maintained} & White & ZB6DF1 & ZB6CF1 & ZB6AF1 \\
\hline & Green & ZB6DF3 & ZB6CF3 & ZB6AF3 \\
\hline & Red & ZB6DF4 & ZB6CF4 & ZB6AF4 \\
\hline & Yellow & ZB6DF5 & ZB6CF5 & ZB6AF5 \\
\hline & Blue & ZB6DF6 & ZB6CF6 & ZB6AF6 \\
\hline & 5 colors [11] & ZB6DF9 & ZB6CF9 & ZB6AF9 \\
\hline \multirow{6}{*}{Extended, spring return} & White & ZB6DE1 & ZB6CE1 & ZB6AE1 \\
\hline & Green & ZB6DE3 & ZB6CE3 & ZB6AE3 \\
\hline & Red & ZB6DE4 & ZB6CE4 & ZB6AE4 \\
\hline & Yellow & ZB6DE5 & ZB6CE5 & ZB6AE5 \\
\hline & Blue & ZB6DE6 & ZB6CE6 & ZB6AE6 \\
\hline & 5 colors[11] & ZB6DE9 & ZB6CE9 & ZB6AE9 \\
\hline
\end{tabular}

Table 19.41: Heads for Pilot Lights [10]
\begin{tabular}{|c|c|c|c|}
\hline \multirow[t]{2}{*}{Color} & Rectangular & Square & Round \\
\hline & \multicolumn{3}{|c|}{Catalog Number} \\
\hline White & ZB6DV1 & ZB6CV1 & ZB6AV1 \\
\hline Green & ZB6DV3 & ZB6CV3 & ZB6AV3 \\
\hline Red & ZB6DV4 & ZB6CV4 & ZB6AV4 \\
\hline Yellow & ZB6DV5 & ZB6CV5 & ZB6AV5 \\
\hline Blue & ZB6DV6 & ZB6CV6 & ZB6AV6 \\
\hline 5 colors [11] & ZB6DV9 & ZB6CV9 & ZB6AV9 \\
\hline
\end{tabular}

For legends, see Legend Plates and Legends, page 19-20

\section*{XB6 Non-Illuminated Operators}


Table 19.42: Heads for Push Buttons [12]
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Type of Push} & \multirow[t]{2}{*}{Color} & Rectangular & Square & Round \\
\hline & & \multicolumn{3}{|c|}{Catalog Number} \\
\hline \multirow{7}{*}{Flush, spring return} & White & ZB6DA1 & ZB6CA1 & ZB6AA1 \\
\hline & Black & ZB6DA2 & ZB6CA2 & ZB6AA2 \\
\hline & Green & ZB6DA3 & ZB6CA3 & ZB6AA3 \\
\hline & Red & ZB6DA4 & ZB6CA4 & ZB6AA4 \\
\hline & Yellow & ZB6DA5 & ZB6CA5 & ZB6AA5 \\
\hline & Blue & ZB6DA6 & ZB6CA6 & ZB6AA6 \\
\hline & 6 colors[13] & ZB6DA9 & ZB6CA9 & ZB6AA9 \\
\hline
\end{tabular}

Table 19.43: Mushroom Heads for Trigger Action Push Buttons ( \(\mathbf{3 0} \mathbf{~ m m}\) ) [44]
\begin{tabular}{l|l|c|c}
\begin{tabular}{c} 
Shape of \\
Head
\end{tabular} & Type of Push & Cap Color & Catalog Number \\
\hline & Turn-to-release & Red & ZB6AS834 \\
\hline (D) & Key release & Red & ZB6AS934 [15] \\
\hline
\end{tabular}

Table 19.44: Circular Legends, 45 mm
\begin{tabular}{l|c|c|c} 
Description & Color & Text & Catalog Number \\
\multirow{2}{*}{ Circular legends, 45 mm} & \multirow{2}{*}{ Yellow } & Blank & ZB6Y7001 \\
\cline { 3 - 4 } & & Emergency stop & ZB6Y7330 \\
\hline
\end{tabular}


ZB6CD••


ZB6AD••
XB6 Non-IIluminated Selector Switches
Table 19.45: Heads for Non-Illuminated Selector Switches[16][17]
(To combine with complete bodies and contact blocks, see XB6 Electrical
Components, page 19-15.)
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Number and Type of Positions}} & \multirow[t]{2}{*}{Color of Handle} & Rectangular &  & Round \\
\hline & & & \multicolumn{3}{|c|}{Catalog Number} \\
\hline \multicolumn{6}{|l|}{Switching angle: maintained positions \(60^{\circ}\), spring return positions \(45^{\circ}\)} \\
\hline 2-maintained & V & Black & ZB6DD22 & ZB6CD22 & ZB6AD22 \\
\hline 2-maintained & \(\checkmark\) & Black & ZB6DD28 [18] & ZB6CD28 [18] & ZB6AD28 [18] \\
\hline 3-maintained & \[
\vee
\] & Black & ZB6DD23 & ZB6CD23 & ZB6AD23 \\
\hline 2-spring return to center & V & Black & ZB6DD24 & ZB6CD24 & ZB6AD24 \\
\hline 3 -spring return to center & \[
\forall
\] & Black & ZB6DD25 & ZB6CD25 & ZB6AD25 \\
\hline 3-spring return from right to center & \[
\vee
\] & Black & ZB6DD26 & ZB6CD26 & ZB6AD26 \\
\hline 3 -spring return from left to center & \[
\downarrow
\] & Black & ZB6DD27 & ZB6CD27 & ZB6AD27 \\
\hline
\end{tabular}


ZB6DG•


ZB6CG•


ZB6AG•

XB6 Keyed Selector Switches
Table 19.46: Heads for Ronis Key Operated Selector Switches [19] (To combine with complete bodies and contact blocks, see XB6 Electrical Components, page 19-15.)
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Number and Type of Positions}} & \multirow[t]{2}{*}{Key Withdrawal} & Rectangular & \begin{tabular}{l}
(1) \\
Square
\end{tabular} & Round \\
\hline & & & \multicolumn{3}{|c|}{Catalog Number} \\
\hline \multicolumn{6}{|l|}{Switching angle: maintained positions \(70^{\circ}\), spring return positions \(45^{\circ}\)} \\
\hline \multirow{3}{*}{2-maintained} & 8 & Right-hand position & ZB6DGA & ZB6CGA & ZB6AGA \\
\hline & 8 & Center position & ZB6DGB & ZB6CGB & ZB6AGB \\
\hline & 8 & Both positions & ZB6DGC & ZB6CGC & ZB6AGC \\
\hline 2-spring return from right to center & 8 & Center position & ZB6DGL & ZB6CGL & ZB6AGL \\
\hline \multirow{7}{*}{3-maintained} & \(\Downarrow\) & Left-hand position & ZB6DGD & ZB6CGD & ZB6AGD \\
\hline & 8 & Center position & ZB6DGE & ZB6CGE & ZB6AGE \\
\hline & 88 & Left-hand and center positions & ZB6DGF & ZB6CGF & ZB6AGF \\
\hline & \(\downarrow\) & Right-hand position & ZB6DGG & ZB6CGG & ZB6AGG \\
\hline & \& \(8^{8}\) & All 3 positions & ZB6DGH & ZB6CGH & ZB6AGH \\
\hline & 88 & Left-hand and righthand positions & ZB6DGJ & ZB6CGJ & ZB6AGJ \\
\hline & 8 & Right-hand and center positions & ZB6DGK & ZB6CGK & ZB6AGK \\
\hline \multirow{3}{*}{3-spring return from right to center} & Q & Left-hand position & ZB6DGQ & ZB6CGQ & ZB6AGQ \\
\hline & 8 & Center position & ZB6DGR & ZB6CGR & ZB6AGR \\
\hline & 88 & Left-hand and center positions & ZB6DGS & ZB6CGS & ZB6AGS \\
\hline 3-spring return to center & \[
\sqrt{8}
\] & Center position & ZB6DGT & ZB6CGT & ZB6AGT \\
\hline
\end{tabular}

8 Indicates key withdrawal position.
Table 19.47: Selector Switch Sequence (using contact block assemblies, see XB6 Electrical Components, page 19-15)
\begin{tabular}{l|l|l} 
& \multicolumn{2}{|c}{2 Position Selector Switch } \\
\hline O & A & Contact block guide [20] \\
\hline X & X & 1 N.O. (left or right) \\
\hline O & O & 1 N.C. (left or right) \\
\hline X & X & \begin{tabular}{l}
1 N.O. \\
and \\
1 N.C. \\
\hline
\end{tabular} \\
\hline
\end{tabular}
\begin{tabular}{|l|c|c|l} 
& \multicolumn{4}{|c}{3 Position Selector Switch } \\
\hline & P & & Contact block guide [20] \\
\hline O & O & X & 1 N.O. (left) \\
\hline X & O & X & 2 N.O. wired in parallel (side by side) \\
\hline X & O & O & 1 N.O. (right) \\
\hline O & X & X & 1 N.C. (right) \\
\hline X & X & O & 1 N.C. (left) \\
\hline O & X & O & 2 N.C. wired in series (side by side) \\
\hline
\end{tabular}

For legends, see Legend Plates and Legends, page 19-20


ZB6YD•10

ZB6YD•19



ZB6YC•10


ZB6YD•17


ZB6YC•19


ZB6YA•10


ZB6YA•19

XB6 Push Button Caps
Table 19.48: Push Button Caps—Marked
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Ink Marking Color: White on colored cap Black on white cap} & \multirow[t]{2}{*}{Color} & Rectangular & Square &  \\
\hline & & \multicolumn{3}{|c|}{Catalog Number} \\
\hline \multicolumn{5}{|l|}{For non-illuminated push buttons} \\
\hline \multirow[t]{2}{*}{0} & White & ZB6YD100 & ZB6YC100 & ZB6YA100 \\
\hline & Black & ZB6YD200 & ZB6YC200 & ZB6YA200 \\
\hline \multirow[t]{2}{*}{1} & White & ZB6YD101 & ZB6YC101 & ZB6YA101 \\
\hline & Black & ZB6YD201 & ZB6YC201 & ZB6YA201 \\
\hline \multirow[t]{2}{*}{2} & White & ZB6YD102 & ZB6YC102 & ZB6YA102 \\
\hline & Black & ZB6YD202 & ZB6YC202 & ZB6YA202 \\
\hline \multirow[t]{2}{*}{3} & White & ZB6YD103 & ZB6YC103 & ZB6YA103 \\
\hline & Black & ZB6YD203 & ZB6YC203 & ZB6YA203 \\
\hline \multirow[b]{2}{*}{4} & White & ZB6YD104 & ZB6YC104 & ZB6YA104 \\
\hline & Black & ZB6YD204 & ZB6YC204 & ZB6YA204 \\
\hline \multirow[t]{2}{*}{5} & White & ZB6YD105 & ZB6YC105 & ZB6YA105 \\
\hline & Black & ZB6YD205 & ZB6YC205 & ZB6YA205 \\
\hline \multirow[t]{2}{*}{6} & White & ZB6YD106 & ZB6YC106 & ZB6YA106 \\
\hline & Black & ZB6YD206 & ZB6YC206 & ZB6YA206 \\
\hline \multirow[b]{2}{*}{7} & White & ZB6YD107 & ZB6YC107 & ZB6YA107 \\
\hline & Black & ZB6YD207 & ZB6YC207 & ZB6YA207 \\
\hline \multirow[t]{2}{*}{8} & White & ZB6YD108 & ZB6YC108 & ZB6YA108 \\
\hline & Black & ZB6YD208 & ZB6YC208 & ZB6YA208 \\
\hline \multirow[t]{2}{*}{9} & White & ZB6YD109 & ZB6YC109 & ZB6YA109 \\
\hline & Black & ZB6YD209 & ZB6YC209 & ZB6YA209 \\
\hline \multirow[t]{2}{*}{ON} & White & ZB6YD117 & ZB6YC117 & ZB6YA117 \\
\hline & Green & ZB6YD317 & ZB6YC317 & ZB6YA317 \\
\hline \multirow[t]{2}{*}{OFF} & Black & ZB6YD224 & ZB6YC224 & ZB6YA224 \\
\hline & Red & ZB6YD424 & ZB6YC424 & ZB6YA424 \\
\hline \multirow[t]{2}{*}{I} & White & ZB6YD111 & ZB6YC111 & ZB6YA111 \\
\hline & Green & ZB6YD311 & ZB6YC311 & ZB6YA311 \\
\hline \multirow[t]{2}{*}{0} & Black & ZB6YD210 & ZB6YC210 & ZB6YA210 \\
\hline & Red & ZB6YD410 & ZB6YC410 & ZB6YA410 \\
\hline \multirow[t]{2}{*}{R} & Black & ZB6YD226 & ZB6YC226 & ZB6YA226 \\
\hline & Blue & ZB6YD626 & ZB6YC626 & ZB6YA626 \\
\hline \multirow[t]{2}{*}{START} & White & ZB6YD140 & ZB6YC140 & ZB6YA140 \\
\hline & Green & ZB6YD340 & ZB6YC340 & ZB6YA340 \\
\hline \multirow[t]{2}{*}{STOP} & Black & ZB6YD241 & ZB6YC241 & ZB6YA241 \\
\hline & Red & ZB6YD441 & ZB6YC441 & ZB6YA441 \\
\hline \multirow[t]{2}{*}{II} & White & ZB6YD112 & ZB6YC112 & ZB6YA112 \\
\hline & Black & ZB6YD212 & ZB6YC212 & ZB6YA212 \\
\hline \multirow[t]{2}{*}{III} & White & ZB6YD113 & ZB6YC113 & ZB6YA113 \\
\hline & Black & ZB6YD213 & ZB6YC213 & ZB6YA213 \\
\hline \multirow[t]{2}{*}{+} & White & ZB6YD114 & ZB6YC114 & ZB6YA114 \\
\hline & Black & ZB6YD214 & ZB6YC214 & ZB6YA214 \\
\hline \multirow[b]{2}{*}{-} & White & ZB6YD115 & ZB6YC115 & ZB6YA115 \\
\hline & Black & ZB6YD215 & ZB6YC215 & ZB6YA215 \\
\hline \multirow[t]{2}{*}{UP} & White & ZB6YD127 & ZB6YC127 & ZB6YA127 \\
\hline & Black & ZB6YD227 & ZB6YC227 & ZB6YA227 \\
\hline \multirow[t]{2}{*}{DOWN} & White & ZB6YD128 & ZB6YC128 & ZB6YA128 \\
\hline & Black & ZB6YD228 & ZB6YC228 & ZB6YA228 \\
\hline \multirow[t]{2}{*}{CLOSE} & White & ZB6YD132 & ZB6YC132 & ZB6YA132 \\
\hline & Black & ZB6YD232 & ZB6YC232 & ZB6YA232 \\
\hline \multirow[t]{2}{*}{} & White & ZB6YD119 & ZB6YC119 & ZB6YA119 \\
\hline & Black & ZB6YD219 & ZB6YC219 & ZB6YA219 \\
\hline \multirow[t]{2}{*}{\(\checkmark\)} & White & ZB6YD120 & ZB6YC120 & ZB6YA120 \\
\hline & Black & ZB6YD220 & ZB6YC220 & ZB6YA220 \\
\hline \multirow[t]{2}{*}{\(\Rightarrow\)} & White & ZB6YD121 & ZB6YC121 & ZB6YA121 \\
\hline & Black & ZB6YD221 & ZB6YC221 & ZB6YA221 \\
\hline \multirow[t]{2}{*}{<} & White & ZB6YD122 & ZB6YC122 & ZB6YA122 \\
\hline & Black & ZB6YD222 & ZB6YC222 & ZB6YA222 \\
\hline
\end{tabular}


Additional XB6 Accessories
Table 19.49: Accessories
\begin{tabular}{l|l|c}
\hline Description & Application & Catalog Number \\
Body & Fitting contact blocks & ZB6Y009 \\
\hline Bezel tightening tool + bulb extractor & Fixing the switch and changing bulbs & ZB6Y905 \\
\hline Three piece tool kit & - & ZB6Y019 \\
\hline Nut & Fixing head to panel & ZB6Y002 \\
\hline \multirow{2}{*}{ Adaptor } & \begin{tabular}{l} 
Flush mounting a circular head push button or \\
pilot light in \(\varnothing\) 22 mm cut-out
\end{tabular} & ZB6YA002 \\
\hline Shroud & Protecting contacts against touching & ZB6Y001 \\
\hline \multirow{3}{*}{ Protective cover } & \begin{tabular}{l} 
Circular and square head push buttons and \\
switches
\end{tabular} & ZB6YA001 \\
\cline { 2 - 3 } & Rectangular head push buttons and switches & ZB6YD001 \\
\hline Female Quick connector/Solder tab & Sold in lots of 100 pieces & ZB6Y004 \\
\hline Blanking plug & Plugging an unused knockout & ZB6Y005 \\
\hline \multirow{2}{*}{ Ronis key, 2 pieces } & \begin{tabular}{l} 
Key operated selector switches and emergency \\
stop mushroom
\end{tabular} & ZB6Y007 \\
\hline \multirow{3}{*}{ Incandescent bulbs, bayonet T1 1/4 } & 6 V & ZB6YA006 \\
\cline { 2 - 3 } & 12 V & ZB6YJ012 \\
\cline { 2 - 3 } & \(28 \mathrm{~V}[21]\) & ZB6YB028 \\
\hline
\end{tabular}

Table 19.50: Accessories for Printed Circuit Board Installations
\begin{tabular}{l|l|c}
\hline Description & for use with & Catalog Number \\
\hline Plug-in Socket Adapter & contact blocks and light modules & ZB6Y010 \\
\hline Body Bracket & plug-in socket adapter & ZB6Y011 \\
\hline
\end{tabular}

XB6 Legend Plates and Legends
Table 19.51: Standard Legend Plate ( \(24 \times 28 \mathrm{~mm}\) ) for \(8 \mathbf{X} 21 \mathrm{~mm}\) Legend [23]
\begin{tabular}{l|l|c} 
Description & Background Color of Legend & Catalog Number \\
\begin{tabular}{lll} 
Without legend insert & - & ZB6YD20 \\
\hline \multirow{2}{*}{ With blank legend insert } & White or yellow & ZB6YD21 \\
\hline & Black or red & ZB6YD22 \\
\hline
\end{tabular}
\end{tabular}

Table 19.52: \(8 \times 21 \mathrm{~mm}\) Marked Legends (for \(24 \times 28 \mathrm{~mm}\) legend holder ZB6YD20) [23]
\begin{tabular}{|c|c|c|c|}
\hline Color & \multicolumn{2}{|r|}{Marking} & Catalog Number \\
\hline \multirow{19}{*}{\begin{tabular}{l}
White Text \\
Red Background (Stop and Fault) \\
Black Background (all others)
\end{tabular}} & \multirow{4}{*}{International} & O-I & ZB6Y2178 \\
\hline & & I-II & ZB6Y2179 \\
\hline & & I-O-II & ZB6Y2186 \\
\hline & & 0 & ZB6Y2190 \\
\hline & \multirow{15}{*}{English} & HAND-O-AUTO & ZB6Y2387 \\
\hline & & CLOSE & ZB6Y2314 \\
\hline & & DOWN & ZB6Y2308 \\
\hline & & FORWARD & ZB6Y2305 \\
\hline & & FAULT & ZB6Y2334 \\
\hline & & LEFT & ZB6Y2310 \\
\hline & & OFF & ZB6Y2312 \\
\hline & & ON & ZB6Y2303 \\
\hline & & OPEN & ZB6Y2313 \\
\hline & & RESET & ZB6Y2323 \\
\hline & & REVERSE & ZB6Y2306 \\
\hline & & RIGHT & ZB6Y2309 \\
\hline & & RUN & ZB6Y2311 \\
\hline & & STOP & ZB6Y2304 \\
\hline & & UP & ZB6Y2307 \\
\hline
\end{tabular}

Table 19.53: Circular Legends, 45 mm



XB6EAA••P


XB6ECA••P


XB6EAV••P


XB6ECV••P


XB6EDV••P

New!) XB6E Flush, Spring Return Push Buttons
Table 19.54: Push Buttons, Flush, Spring Return
\begin{tabular}{|c|c|c|c|c|}
\hline Shape of head &  & Color & Sold in lots of & Catalog Number \\
\hline \multirow{12}{*}{} & \multirow{6}{*}{1} & White & 5 & XB6EAA11P \\
\hline & & Black & 5 & XB6EAA21P \\
\hline & & Green & 5 & XB6EAA31P \\
\hline & & Red & 5 & XB6EAA41P \\
\hline & & Yellow & 5 & XB6EAA51P \\
\hline & & Blue & 5 & XB6EAA61P \\
\hline & \multirow{6}{*}{2} & White & 5 & XB6EAA12P \\
\hline & & Black & 5 & XB6EAA22P \\
\hline & & Green & 5 & XB6EAA32P \\
\hline & & Red & 5 & XB6EAA42P \\
\hline & & Yellow & 5 & XB6EAA52P \\
\hline & & Blue & 5 & XB6EAA62P \\
\hline \multirow{12}{*}{Square} & \multirow{6}{*}{1} & White & 5 & XB6ECA11P \\
\hline & & Black & 5 & XB6ECA21P \\
\hline & & Green & 5 & XB6ECA31P \\
\hline & & Red & 5 & XB6ECA41P \\
\hline & & Yellow & 5 & XB6ECA51P \\
\hline & & Blue & 5 & XB6ECA61P \\
\hline & \multirow{6}{*}{2} & White & 5 & XB6ECA12P \\
\hline & & Black & 5 & XB6ECA22P \\
\hline & & Green & 5 & XB6ECA32P \\
\hline & & Red & 5 & XB6ECA42P \\
\hline & & Yellow & 5 & XB6ECA52P \\
\hline & & Blue & 5 & XB6ECA62P \\
\hline \multirow{12}{*}{Rectangular} & \multirow{6}{*}{1} & White & 5 & XB6EDA11P \\
\hline & & Black & 5 & XB6EDA21P \\
\hline & & Green & 5 & XB6EDA31P \\
\hline & & Red & 5 & XB6EDA41P \\
\hline & & Yellow & 5 & XB6EDA51P \\
\hline & & Blue & 5 & XB6EDA61P \\
\hline & \multirow{6}{*}{2} & White & 5 & XB6EDA12P \\
\hline & & Black & 5 & XB6EDA22P \\
\hline & & Green & 5 & XB6EDA32P \\
\hline & & Red & 5 & XB6EDA42P \\
\hline & & Yellow & 5 & XB6EDA52P \\
\hline & & Blue & 5 & XB6EDA62P \\
\hline
\end{tabular}

New! XB6E Pilot Lights
Table 19.55: XB6E Pilot Lights with 12 or 24 V Integral LED
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of head} & \multirow[b]{2}{*}{Color} & \multirow[b]{2}{*}{Sold in lots of} & \multicolumn{2}{|c|}{Catalog Number} \\
\hline & & & With 12 V LED & With 24 V LED \\
\hline \multirow{6}{*}{} & White & 5 & XB6EAV1JP & XB6EAV1BP \\
\hline & Green & 5 & XB6EAV3JP & XB6EAV3BP \\
\hline & Red & 5 & XB6EAV4JP & XB6EAV4BP \\
\hline & Yellow & 5 & XB6EAV5JP & XB6EAV5BP \\
\hline & Blue & 5 & XB6EAV6JP & XB6EAV6BP \\
\hline & Orange & 5 & XB6EAV8JP & XB6EAV8BP \\
\hline \multirow{6}{*}{Square} & White & 5 & XB6ECV1JP & XB6ECV1BP \\
\hline & Green & 5 & XB6ECV3JP & XB6ECV3BP \\
\hline & Red & 5 & XB6ECV4JP & XB6ECV4BP \\
\hline & Yellow & 5 & XB6ECV5JP & XB6ECV5BP \\
\hline & Blue & 5 & XB6ECV6JP & XB6ECV6BP \\
\hline & Orange & 5 & XB6ECV8JP & XB6ECV8BP \\
\hline \multirow{6}{*}{Rectangular} & White & 5 & XB6EDV1JP & XB6EDV1BP \\
\hline & Green & 5 & XB6EDV3JP & XB6EDV3BP \\
\hline & Red & 5 & XB6EDV4JP & XB6EDV4BP \\
\hline & Yellow & 5 & XB6EDV5JP & XB6EDV5BP \\
\hline & Blue & 5 & XB6EDV6JP & XB6EDV6BP \\
\hline & Orange & 5 & XB6EDV8JP & XB6EDV8BP \\
\hline
\end{tabular}
schneider-electric.us
Nem. XB6E Illuminated Push Buttons, Spring Return
Table 19.56: Illuminated Push Buttons, Flush, Spring Return, with 12 or 24 V Integral LED

\begin{tabular}{l|l} 
& Type of contacts \\
\cline { 2 - 3 } & \\
\hline
\end{tabular}


XB6EAF•••P


XB6ECF•••P


XV6EDF•••P

New!) XB6E Illuminated Push Buttons, Latching
Table 19.57: Illuminated Push Buttons, Flush, Latching,
with 12 or 24 V Integral LED
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Shape of Head} & \multirow[t]{2}{*}{Type of Contacts} & \multirow[b]{2}{*}{Color} & \multirow[b]{2}{*}{\[
\begin{gathered}
\text { Sold in lots } \\
\text { of }
\end{gathered}
\]} & \multicolumn{2}{|c|}{Catalog Number} \\
\hline & & & & With 12 V LED & With 24 V LED \\
\hline \multirow{12}{*}{\begin{tabular}{l}
\(\bigcirc\) \\
Circular
\end{tabular}} & \multirow[t]{6}{*}{1} & White & 5 & XB6EAF1J1P & XB6EAF1B1P \\
\hline & & Green & 5 & XB6EAF3J1P & XB6EAF3B1P \\
\hline & & Red & 5 & XB6EAF4J1P & XB6EAF4B1P \\
\hline & & Yellow & 5 & XB6EAF5J1P & XB6EAF5B1P \\
\hline & & Blue & 5 & XB6EAF6J1P & XB6EAF6B1P \\
\hline & & Orange & 5 & XB6EAF8J1P & XB6EAF8B1P \\
\hline & \multirow{6}{*}{2} & White & 5 & XB6EAF1J2P & XB6EAF1B2P \\
\hline & & Green & 5 & XB6EAF3J2P & XB6EAF3B2P \\
\hline & & Red & 5 & XB6EAF4J2P & XB6EAF4B2P \\
\hline & & Yellow & 5 & XB6EAF5J2P & XB6EAF5B2P \\
\hline & & Blue & 5 & XB6EAF6J2P & XB6EAF6B2P \\
\hline & & Orange & 5 & XB6EAF8J2P & XB6EAF8B2P \\
\hline \multirow{12}{*}{Square} & \multirow{6}{*}{1} & White & 5 & XB6ECF1J1P & XB6ECF1B1P \\
\hline & & Green & 5 & XB6ECF3J1P & XB6ECF3B1P \\
\hline & & Red & 5 & XB6ECF4J1P & XB6ECF4B1P \\
\hline & & Yellow & 5 & XB6ECF5J1P & XB6ECF5B1P \\
\hline & & Blue & 5 & XB6ECF6J1P & XB6ECF6B1P \\
\hline & & Orange & 5 & XB6ECF8J1P & XB6ECF8B1P \\
\hline & \multirow{6}{*}{2} & White & 5 & XB6ECF1J2P & XB6ECF1B2P \\
\hline & & Green & 5 & XB6ECF3J2P & XB6ECF3B2P \\
\hline & & Red & 5 & XB6ECF4J2P & XB6ECF4B2P \\
\hline & & Yellow & 5 & XB6ECF5J2P & XB6ECF5B2P \\
\hline & & Blue & 5 & XB6ECF6J2P & XB6ECF6B2P \\
\hline & & Orange & 5 & XB6ECF8J2P & XB6ECF8B2P \\
\hline \multirow{12}{*}{Rectangular} & \multirow{6}{*}{1} & White & 5 & XB6EDF1J1P & XB6EDF1B1P \\
\hline & & Green & 5 & XB6EDF3J1P & XB6EDF3B1P \\
\hline & & Red & 5 & XB6EDF4J1P & XB6EDF4B1P \\
\hline & & Yellow & 5 & XB6EDF5J1P & XB6EDF5B1P \\
\hline & & Blue & 5 & XB6EDF6J1P & XB6EDF6B1P \\
\hline & & Orange & 5 & XB6EDF8J1P & XB6EDF8B1P \\
\hline & \multirow{6}{*}{2} & White & 5 & XB6EDF1J2P & XB6EDF1B2P \\
\hline & & Green & 5 & XB6EDF3J2P & XB6EDF3B2P \\
\hline & & Red & 5 & XB6EDF4J2P & XB6EDF4B2P \\
\hline & & Yellow & 5 & XB6EDF5J2P & XB6EDF5B2P \\
\hline & & Blue & 5 & XB6EDF6J2P & XB6EDF6B2P \\
\hline & & Orange & 5 & XB6EDF8J2P & XB6EDF8B2P \\
\hline
\end{tabular}


Nem.
XB6E Selector Switches
Table 19.59: Selector Switches with Standard Handle or Key Switches
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Shape of Head} & \multirow[b]{2}{*}{Type of push} & Type of contacts & \multicolumn{2}{|l|}{\multirow[b]{2}{*}{Number and type of positions}} & \multirow[b]{2}{*}{Sold in lots of} & \multirow[b]{2}{*}{Catalog Number} \\
\hline & &  & & & & \\
\hline \multirow{6}{*}{Circular} & \multirow[t]{3}{*}{Standard black handle} & 1 & 2-maintained & \ & 5 & XB6EAD221P \\
\hline & & 2 & 2-maintained & V & 5 & XB6EAD222P \\
\hline & & 2 & 3-maintained & \(\downarrow\) & 5 & XB6EAD232P \\
\hline & \multirow[b]{3}{*}{Key [24]} & 1 & 2-maintained & \(8>8\) & 5 & XB6EAG221P \\
\hline & & 2 & 2-maintained & \(8{ }^{8}\) & 5 & XB6EAG222P \\
\hline & & 2 & 3-maintained & 88 & 5 & XB6EAG232P \\
\hline \multirow{6}{*}{Square} & \multirow[t]{3}{*}{Standard black handle} & 1 & 2-maintained & \(\downarrow\) & 5 & XB6ECD221P \\
\hline & & 2 & 2-maintained & \(\downarrow\) & 5 & XB6ECD222P \\
\hline & & 2 & 3-maintained & \(\downarrow\) & 5 & XB6ECD232P \\
\hline & \multirow[b]{3}{*}{Key [24]} & 1 & 2-maintained & 88 & 5 & XB6ECG221P \\
\hline & & 2 & 2-maintained & \(8{ }^{8}\) & 5 & XB6ECG222P \\
\hline & & 2 & 3-maintained & 88 & 5 & XB6ECG232P \\
\hline \multirow{6}{*}{Rectangular} & \multirow[t]{3}{*}{Standard black handle} & 1 & 2-maintained & \(\downarrow\) & 5 & XB6EDD221P \\
\hline & & 2 & 2-maintained & \(\downarrow\) & 5 & XB6EDD222P \\
\hline & & 2 & 3-maintained & \(\downarrow\) & 5 & XB6EDD232P \\
\hline & \multirow[b]{3}{*}{Key [24]} & 1 & 2-maintained & \[
8 \beta^{8}
\] & 5 & XB6EDG221P \\
\hline & & 2 & 2-maintained & 88 & 5 & XB6EDG222P \\
\hline & & 2 & 3-maintained & Q \(8^{8}\) & 5 & XB6EDG232P \\
\hline
\end{tabular}

Nem. XB6E Accessories
Table 19.60: Fast Connector Sockets
\begin{tabular}{|c|c|c|c|}
\hline For use with &  & Sold in lots of & Catalog Number \\
\hline \multirow[b]{2}{*}{Illuminated Push Button} & 1 & 10 & ZB6YF01 \\
\hline & 2 & 10 & ZB6YF02 \\
\hline Pilot Lights & - & 10 & ZB6YF03 \\
\hline \multirow[t]{2}{*}{Push Button and Selector Switches} & 1 & 10 & ZB6YF04 \\
\hline & 2 & 10 & ZB6YF05 \\
\hline
\end{tabular}

Table 19.61: Accessories for Push Buttons
\begin{tabular}{l|l|c|c} 
For use with \\
\begin{tabular}{l} 
Bezel Tightening tool + Bulb \\
Extractor
\end{tabular} & For use with & Sold in lots of & Catalog Number \\
\hline \multirow{2}{*}{ Protective Covers } & bezel changing slackening the & 2 & ZB6Y905 \\
\hline Blanking Plug & Circle or square push buttons & 1 & ZB6YA001 \\
\cline { 2 - 4 } & Rectangular push buttons & 1 & ZB6YD001 \\
\hline
\end{tabular}

Table 19.62: Legends for Emergency Stop Mushroom Head Push Buttons
\begin{tabular}{l|l|c|c|c}
\hline Shape & Color & Marking & Sold in lots of & Catalog Number \\
\hline Circular & Yellow & EMERGENCY & 10 & STOP
\end{tabular}
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XB4 Complete Devices-Non-Illuminated
Table 19.63: Non-Illuminated Push Buttons, Momentary
(screw clamp terminal connections)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of Head} & \multirow[t]{2}{*}{Type of Push} & \multicolumn{2}{|r|}{Type of Contact} & \multirow[t]{2}{*}{Marking} & \multirow[t]{2}{*}{Cap Color} & \multirow[t]{2}{*}{Catalog Number} & \multirow[t]{2}{*}{Components} \\
\hline & & N.O. & N.C. & & & & \\
\hline \multirow{10}{*}{} & \multirow{10}{*}{Flush} & \multirow[t]{4}{*}{1} & \multirow[t]{4}{*}{-} & \multirow{4}{*}{-} & Black & XB4BA21 & (ZB4BZ101 + ZB4BA2) \\
\hline & & & & & Green & XB4BA31 & (ZB4BZ101 + ZB4BA3) \\
\hline & & & & & Yellow & XB4BA51 & (ZB4BZ101 + ZB4BA5) \\
\hline & & & & & Blue & XB4BA61 & (ZB4BZ101 + ZB4BA6) \\
\hline & & - & 1 & - & Red & XB4BA42 & (ZB4BZ102 + ZB4BA4) \\
\hline & & \multirow{5}{*}{1} & \multirow[t]{5}{*}{1} & \multirow{5}{*}{-} & Black & XB4BA25 & (ZB4BZ105 + ZB4BA2) \\
\hline & & & & & Green & XB4BA35 & (ZB4BZ105 + ZB4BA3) \\
\hline & & & & & Red & XB4BA45 & (ZB4BZ105 + ZB4BA4) \\
\hline & & & & & Yellow & XB4BA55 & (ZB4BZ105 + ZB4BA5) \\
\hline & & & & & Blue & XB4BA65 & (ZB4BZ105 + ZB4BA6) \\
\hline \[
15
\] & Flush & 1 & - & \[
\begin{gathered}
\text { "।" } \\
\text { (white) }
\end{gathered}
\] & Green & XB4BA3311 & (ZB4BZ101 + ZB4BA331) \\
\hline  & Flush & - & 1 & \[
\begin{aligned}
& \text { "O" } \\
& \text { (white) }
\end{aligned}
\] & Red & XB4BA4322 & (ZB4BZ102 + ZB4BA432) \\
\hline \multirow{5}{*}{©} & \multirow[t]{5}{*}{Flush with clear silicone boot (color of pusher unobscured)} & \multirow{4}{*}{1} & \multirow{4}{*}{-} & \multirow{4}{*}{-} & Black & XB4BP21 & (ZB4BZ101 + ZB4BP2) \\
\hline & & & & & Green & XB4BP31 & (ZB4BZ101 + ZB4BP3) \\
\hline & & & & & Yellow & XB4BP51 & (ZB4BZ101 + ZB4BP5) \\
\hline & & & & & Blue & XB4BP61 & (ZB4BZ101 + ZB4BP6) \\
\hline & & - & 1 & - & Red & XB4BP42 & (ZB4BZ102 + ZB4BP4) \\
\hline \multirow[t]{2}{*}{(3)} & \multirow[b]{2}{*}{Extended} & - & 1 & - & Red & XB4BL42 & (ZB4BZ102 + ZB4BL4) \\
\hline & & 1 & 1 & - & Red & XB4BL45 & (ZB4BZ105 + ZB4BL4) \\
\hline \(\square\) & \[
\begin{aligned}
& \text { Mushroom } \\
& \text { head } \\
& \varnothing 40 \mathrm{~mm}
\end{aligned}
\] & 1 & - & - & Black & XB4BC21 & (ZB4BZ101 + ZB4BC2) \\
\hline
\end{tabular}

Table 19.64: Two Button Push Buttons, Momentary (screw clamp terminal connections)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of Head} & \multirow[t]{2}{*}{Type of Push} & \multicolumn{2}{|l|}{Type of Contact} & \multirow[t]{2}{*}{Marking} & \multirow[t]{2}{*}{Degree of Protection} & \multirow[t]{2}{*}{\begin{tabular}{l}
Catalog \\
Number
\end{tabular}} & \multirow[t]{2}{*}{Components} \\
\hline & & N.O. & N.C. & & & & \\
\hline  & One flush green push* One extended red push** & 1 & 1 & \begin{tabular}{l}
*" \(\left.\right|^{"}\) \\
(white) \\
**"O" \\
(white)
\end{tabular} & \[
\begin{aligned}
& \text { IP66 } \\
& \text { IP69K }
\end{aligned}
\] & XB4BL73415 & \[
\begin{aligned}
& \text { (ZB4BZ105 + } \\
& \text { ZB4BL7341) }
\end{aligned}
\] \\
\hline
\end{tabular}

Table 19.65: Two Button Push Buttons, Momentary + one white central pilot light (screw clamp terminal connections)


Table 19.66: Three Button Push Buttons, Momentary
(screw clamp terminal connections)
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of Head} & \multirow[t]{2}{*}{Type of Push} & \multicolumn{2}{|l|}{Type of Contact} & \multirow[t]{2}{*}{Degree of Protection} & \multirow[b]{2}{*}{Marking and Cap Color} & \multirow[t]{2}{*}{Catalog Number} \\
\hline & & N.O. & N.C. & & & \\
\hline \multirow[t]{2}{*}{} & \multirow[t]{2}{*}{Two flush pushes + one central projecting red push*} & \multirow[b]{2}{*}{2} & \multirow[t]{2}{*}{1} & \multirow[b]{2}{*}{\[
\begin{aligned}
& \text { IP66 } \\
& \text { IP69K }
\end{aligned}
\]} & White "I" on green background White "II" on green background *White "Stop" on red background & XB4BA731327 \\
\hline & & & & & Black " \(\rightarrow\) " on white background White " \(\varsigma\) " on black background *White "Stop" on red background & XB4BA711237 \\
\hline
\end{tabular}

For Legends, refer to XB4 Legend Holders, page 19-38, XB4 Legend Inserts, page 19-39 and XB4 Legend Sheets, page 19-39.
For Caps, refer to XB4 Accessories, page 19-40.


XB4BT845


XB4BS542

XB4BG33


XB4BS9445


Table 19.67: Non-Illuminated Trigger Action Emergency Stop Push Buttons, ø 40 mm , Red (screw clamp terminal connections)
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of Head} & \multirow[b]{2}{*}{Type of Push} & \multicolumn{2}{|l|}{Type of Contact} & & \multirow[t]{2}{*}{\begin{tabular}{l}
Catalog \\
Number
\end{tabular}} & \multirow[b]{2}{*}{Components} \\
\hline & & N.O. & N.C. & & & \\
\hline () & Trigger action push-pull [1] & 1 & 1 & & XB4BT845 & \[
\begin{aligned}
& \text { (ZB4BZ105 + } \\
& \text { ZB4BT84) }
\end{aligned}
\] \\
\hline \multirow[t]{2}{*}{()} & \multirow[b]{2}{*}{Trigger action turn-to-release[1]} & 1 & 1 & & XB4BS8445 & \[
\begin{aligned}
& \text { (ZB4BZ105 + } \\
& \text { ZB4BS844) }
\end{aligned}
\] \\
\hline & & 1 & 2 & & XB4BS84441 & \[
\begin{aligned}
& \text { (ZB4BZ141 + } \\
& \text { ZB4BS844) } \\
& \hline
\end{aligned}
\] \\
\hline & Trigger action Key release [1] (No. 455) & 1 & 1 & & XB4BS9445 & \[
\begin{aligned}
& \text { (ZB4BZ105 + } \\
& \text { ZB4BS944) }
\end{aligned}
\] \\
\hline & Trigger action Push-pull[1] & - & 1 & & XB4BT842 & \[
\begin{aligned}
& \text { (ZB4BZ105 + } \\
& \text { ZB4BT84) }
\end{aligned}
\] \\
\hline & Trigger action Turn-to-release[1] & - & 1 & & XB4BS8442 & \[
\begin{aligned}
& (\text { ZB4BZ102 + } \\
& \text { ZB4BS844) }
\end{aligned}
\] \\
\hline \[
)
\] & Trigger action Key release [1] (No. 455) & - & 1 & & XB4BS9442 & \[
\begin{aligned}
& (\text { ZB4BZ102 + } \\
& \text { ZB4BS944) }
\end{aligned}
\] \\
\hline
\end{tabular}

Table 19.68: Non-Illuminated Selector Switches and Key Switches (screw clamp terminal connections) [2]
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{\[
\begin{aligned}
& \text { Shape } \\
& \text { of } \\
& \text { Head }
\end{aligned}
\]} & \multirow[b]{2}{*}{Type of Operator} & \multicolumn{2}{|l|}{Type of Contact} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Number and Type of Positions}} & \multirow[t]{2}{*}{Catalog Number} & \multirow[b]{2}{*}{Components} \\
\hline & & N.O. & N.C. & & & & \\
\hline \multirow{4}{*}{(1)} & \multirow{4}{*}{Standard lever, black} & 1 & - & 2-maintained & \(\checkmark\) & XB4BD21 & (ZB4BZ101 + ZB4BD2) \\
\hline & & 1 & 1 & 2-maintained & \(\checkmark\) & XB4BD25 & (ZB4BZ105 + ZB4BD2) \\
\hline & & \multirow[b]{2}{*}{2} & \multirow[b]{2}{*}{-} & 3-maintained & \(\downarrow\) & XB4BD33 & (ZB4BZ103 + ZB4BD3) \\
\hline & & & & 3-momentary to center & \(\checkmark\) & XB4BD53 & (ZB4BZ103 + ZB4BD5) \\
\hline \multirow{3}{*}{} & \multirow{3}{*}{Extended lever, black} & 1 & - & 2-maintained & \(\checkmark\) & XB4BJ21 & (ZB4BZ101 + ZB4BJ2) \\
\hline & & \multirow[b]{2}{*}{2} & \multirow[b]{2}{*}{-} & 3-maintained & \(\downarrow\) & XB4BJ33 & (ZB4BZ103 + ZB4BJ3) \\
\hline & & & & 3-momentary to center & \(\forall\) & XB4BJ53 & (ZB4BZ103 + ZB4BJ5) \\
\hline \multirow{5}{*}{Cos} & \multirow{5}{*}{Key (No. 455)} & \multirow{3}{*}{1} & \multirow{3}{*}{-} & \multirow[t]{2}{*}{2-maintained} & Q & XB4BG21 & (ZB4BZ101 + ZB4BG2) \\
\hline & & & & & 8 & XB4BG41 & (ZB4BZ101 + ZB4BG4) \\
\hline & & & & \[
\begin{array}{|l|l|}
\hline \begin{array}{l}
\text { 2-momemtary } \\
\text { to left } \\
\hline
\end{array} \\
\hline
\end{array}
\] & 5 & XB4BG61 & (ZB4BZ101 + ZB4BG6) \\
\hline & & \multirow[b]{2}{*}{2} & \multirow[b]{2}{*}{-} & \multirow[b]{2}{*}{3-maintained} & * 8 & XB4BG03 & (ZB4BZ103 + ZB4BG0) \\
\hline & & & & & \(\stackrel{8}{8}\) & XB4BG33 & (ZB4BZ103 + ZB4BG3) \\
\hline
\end{tabular}

NOTE: The symbol 8 indicates key withdrawal position(s).
For Legends, refer to XB4 Legend Holders, page 19-38, XB4 Legend Inserts, page 19-39 and XB4 Legend Sheets, page 19-39.


XB4 Complete Devices-Illuminated
Table 19.69: Pilot Lights with Protected LED \({ }^{\text {TM }}\)
(screw clamp terminal connections) \({ }^{[3]}\)
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multicolumn{2}{|r|}{Shape of Head} & Supply Voltage & Color & Catalog Number & Components \\
\hline \multirow{10}{*}{} & \multirow{10}{*}{} & \multirow{5}{*}{\(24 \mathrm{Vac} / \mathrm{Vdc}\)} & White & XB4BVB1 & (ZB4BVB1 + ZB4BV013) \\
\hline & & & Green & XB4BVB3 & (ZB4BVB3 + ZB4BV033) \\
\hline & & & Red & XB4BVB4 & (ZB4BVB4 + ZB4BV043) \\
\hline & & & Yellow & XB4BVB5 & (ZB4BVB5 + ZB4BV053) \\
\hline & & & Blue & XB4BVB6 & (ZB4BVB6 + ZB4BV063) \\
\hline & & \multirow{5}{*}{110-120 Vac} & White & XB4BVG1 & (ZB4BVG1 + ZB4BV013) \\
\hline & & & Green & XB4BVG3 & (ZB4BVG3 + ZB4BV033) \\
\hline & & & Red & XB4BVG4 & (ZB4BVG4 + ZB4BV043) \\
\hline & & & Yellow & XB4BVG5 & (ZB4BVG5 + ZB4BV053) \\
\hline & & & Blue & XB4BVG6 & (ZB4BVG6 + ZB4BV063) \\
\hline
\end{tabular}

Table 19.70: Pilot Lights for BA9s Bulb (screw clamp terminal connections)
\begin{tabular}{|c|c|c|c|c|}
\hline Shape of Head & Supply Voltage & Color & \begin{tabular}{l}
Catalog \\
Number
\end{tabular} & Components \\
\hline \multicolumn{5}{|l|}{Direct supply, for BA9s (incandescent, LED, neon) V < \(\mathbf{2 5 0} \mathbf{~ V , ~ 2 . 4 ~ W ~ b u l b ~ ( b u l b ~ n o t ~ i n c l u d e d ) ~}\)} \\
\hline \multirow{4}{*}{} & \multirow{4}{*}{<250 Vac/Vdc} & White & XB4BV61 & (ZB4BV6 + ZB4BV01) \\
\hline & & Green & XB4BV63 & (ZB4BV6 + ZB4BV03) \\
\hline & & Red & XB4BV64 & (ZB4BV6 + ZB4BV04) \\
\hline & & Yellow & XB4BV65 & (ZB4BV6 + ZB4BV05) \\
\hline \multicolumn{5}{|l|}{Transformer type with 1.2 VA, 6 V secondary. BA9s incandescent bulb included} \\
\hline \multirow{4}{*}{(3)} & \multirow{4}{*}{\[
\begin{gathered}
110-120 \mathrm{Vac} \\
50 / 60 \mathrm{~Hz}
\end{gathered}
\]} & White & XB4BV31 & (ZB4BV3 + ZB4BV01) \\
\hline & & Green & XB4BV33 & (ZB4BV3 + ZB4BV03) \\
\hline & & Red & XB4BV34 & (ZB4BV3 + ZB4BV04) \\
\hline & & Yellow & XB4BV35 & (ZB4BV3 + ZB4BV05) \\
\hline
\end{tabular}

Table 19.71: Illuminated Push Buttons, Momentary (screw clamp terminal connections) [3]
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of Head} & \multirow[t]{2}{*}{Description} & \multicolumn{2}{|l|}{Type of Contact} & \multirow[t]{2}{*}{Supply Voltage} & \multirow[t]{2}{*}{Color of Push} & \multirow[t]{2}{*}{Catalog Number} & \multirow[t]{2}{*}{Components} \\
\hline & & N.O. & N.C. & & & & \\
\hline \multicolumn{8}{|l|}{Flush} \\
\hline \multirow{10}{*}{} & \multirow{10}{*}{\[
P
\]} & \multirow{10}{*}{1} & \multirow{10}{*}{1} & \multirow{5}{*}{\(24 \mathrm{Vac} / \mathrm{Vdc}\)} & White & XB4BW31B5 & (ZB4BW0B15 + ZB4BW313) \\
\hline & & & & & Green & XB4BW33B5 & (ZB4BW0B35 + ZB4BW333) \\
\hline & & & & & Red & XB4BW34B5 & (ZB4BW0B45 + ZB4BW343) \\
\hline & & & & & Yellow & XB4BW35B5 & (ZB4BW0B55 + ZB4BW353) \\
\hline & & & & & Blue & XB4BW36B5 & (ZB4BW0B65 + ZB4BW363) \\
\hline & & & & \multirow{5}{*}{\[
\begin{gathered}
110-120 \\
\text { Vac }
\end{gathered}
\]} & White & XB4BW31G5 & (ZB4BW0G15 + ZB4BW313) \\
\hline & & & & & Green & XB4BW33G5 & (ZB4BW0G35 + ZB4BW333) \\
\hline & & & & & Red & XB4BW34G5 & (ZB4BW0G45 + ZB4BW343) \\
\hline & & & & & Yellow & XB4BW35G5 & (ZB4BW0G55 + ZB4BW353) \\
\hline & & & & & Blue & XB4BW36G5 & (ZB4BW0G65 + ZB4BW363) \\
\hline \multirow{4}{*}{} & \multirow[t]{4}{*}{Direct supply
for BA9s
2.4 Wmax.
bub not
included} & \multirow{4}{*}{1} & \multirow{4}{*}{1} & \multirow{4}{*}{\[
\begin{gathered}
<250 \mathrm{Vac} / \\
\text { Vdc }
\end{gathered}
\]} & White & XB4BW3165 & (ZB4BW065 + ZB4BW31) \\
\hline & & & & & Green & XB4BW3365 & (ZB4BW065 + ZB4BW33) \\
\hline & & & & & Red & XB4BW3465 & (ZB4BW065 + ZB4BW34) \\
\hline & & & & & Yellow & XB4BW3565 & (ZB4BW065 + ZB4BW35) \\
\hline & \multirow{8}{*}{\begin{tabular}{l}
Transformer type \\
1.2 VA, 6 V secondary. BA9s incandescent bulb included
\end{tabular}} & \multirow{8}{*}{1} & \multirow{8}{*}{1} & \multirow{4}{*}{\[
\begin{gathered}
110-120 \\
\mathrm{Vac} \\
50 / 60 \mathrm{~Hz}
\end{gathered}
\]} & White & XB4BW3135 & (ZB4BW035 + ZB4BW31) \\
\hline & & & & & Green & XB4BW3335 & (ZB4BW035 + ZB4BW33) \\
\hline & & & & & Red & XB4BW3435 & (ZB4BW035 + ZB4BW34) \\
\hline \multirow[t]{5}{*}{} & & & & & Yellow & XB4BW3535 & (ZB4BW035 + ZB4BW35) \\
\hline & & & & \multirow{4}{*}{\[
\begin{gathered}
230-240 \\
\mathrm{Vac} \\
50 / 60 \mathrm{~Hz}
\end{gathered}
\]} & White & XB4BW3145 & (ZB4BW045 + ZB4BW31) \\
\hline & & & & & Green & XB4BW3345 & (ZB4BW045 + ZB4BW33) \\
\hline & & & & & Red & XB4BW3445 & (ZB4BW045 + ZB4BW34) \\
\hline & & & & & Yellow & XB4BW3545 & (ZB4BW045 + ZB4BW35) \\
\hline \multicolumn{8}{|l|}{Extended} \\
\hline \multirow[b]{10}{*}{} & \multirow{10}{*}{} & \multirow{10}{*}{1} & \multirow{10}{*}{1} & \multirow{5}{*}{\(24 \mathrm{Vac} / \mathrm{Vdc}\)} & White & XB4BW11B5 & (ZB4BW0B15 + ZB4BW113) \\
\hline & & & & & Green & XB4BW13B5 & (ZB4BW0B35 + ZB4BW133) \\
\hline & & & & & Red & XB4BW14B5 & (ZB4BW0B45 + ZB4BW143) \\
\hline & & & & & Yellow & XB4BW15B5 & (ZB4BW0B55 + ZB4BW153) \\
\hline & & & & & Blue & XB4BW16B5 & (ZB4BW0B65 + ZB4BW163) \\
\hline & & & & \multirow{5}{*}{\[
\begin{gathered}
110-120 \\
\text { Vac }
\end{gathered}
\]} & White & XB4BW11G5 & (ZB4BW0G15 + ZB4BW113) \\
\hline & & & & & Green & XB4BW13G5 & (ZB4BW0G35 + ZB4BW133) \\
\hline & & & & & Red & XB4BW14G5 & (ZB4BW0G45 + ZB4BW143) \\
\hline & & & & & Yellow & XB4BW15G5 & (ZB4BW0G55 + ZB4BW153) \\
\hline & & & & & Blue & XB4BW16G5 & (ZB4BW0G65 + ZB4BW163) \\
\hline
\end{tabular}

For legends, refer to XB4 Legend Holders, page 19-38, XB4 Legend Inserts, page 19-39, and XB4 Legend Sheets, page 19-39.

XB4 Operators
Table 19.72: Non-Illuminated Operators, Momentary—Unmarked
\begin{tabular}{|c|c|c|c|}
\hline Shape of Head & Type of Push & Cap Color & Catalog Number \\
\hline  & Flush, without color cap [4] & - & ZB4BA0 \\
\hline  & Flush, with set of 6 color caps & \begin{tabular}{l}
White \\
Black \\
Green Red Yellow Blue
\end{tabular} & ZB4BA9 \\
\hline  & Flush & \begin{tabular}{l}
White \\
Black \\
Green Red Yellow
Blue Gray
\end{tabular} & \[
\begin{aligned}
& \text { ZB4BA1 } \\
& \text { ZB4BA2 } \\
& \text { ZB4BA3 } \\
& \text { ZB4BA4 } \\
& \text { ZB4BA5 } \\
& \text { ZB4BA6 } \\
& \text { ZB4BA8 } \\
& \hline
\end{aligned}
\] \\
\hline  & Flush with transparent cap, for insertion of legend [5] & White Green Red Yellow Blue & ZB4BA18
ZB4BA38
ZB4BA48
ZB4BA58
ZB4BA68 \\
\hline  & Booted Flush (clear silicone) Cap color unobscured & \begin{tabular}{l}
White \\
Black Green Red Yellow Blue
\end{tabular} & ZB4BPA1
ZB4BPA2
ZB4BPA3
ZB4BPA4
ZB4BPA5
ZB4BPA6 \\
\hline  & Booted Extended (clear silicone) Cap color unobscured & \begin{tabular}{l}
White \\
Black \\
Green \\
Red \\
Yellow \\
Blue
\end{tabular} & ZB4BP1
ZB4BP2
ZB4BP3
ZB4BP4
ZB4BP5
ZB4BP6 \\
\hline  & Booted (colored silicone) Cap color unobscured & \begin{tabular}{l}
White \\
Black Green Red Yellow Blue
\end{tabular} & ZB4BP1S
ZB4BP2S
ZB4BP3S
ZB4BP4S
ZB4BP5S
ZB4BP6S \\
\hline  & Booted (clear silicone) for insertion of legend [5] Cap color unobscured & White Green Red Yellow Blue & ZB4BP18
ZB4BP38
ZB4BP48
ZB4BP588
ZB4BP68 \\
\hline \[
0
\] & Extended & \begin{tabular}{l}
White \\
Black \\
Green \\
Red \\
Yellow \\
Blue
\end{tabular} & ZB4BL1
ZB4BL2
ZB4BL3
ZB4BL4
ZB4BL5
ZB4BL6 \\
\hline  & Guarded Head & \begin{tabular}{l}
White \\
Black Green Red Yellow Blue
\end{tabular} & ZB4BA16
ZB4BA26
ZB4BA36
ZB4BA46
ZB4BA56
ZB4BA66 \\
\hline
\end{tabular}

Table 19.73: Non-Illuminated Operators, Momentary-Premarked
\begin{tabular}{|c|c|c|c|c|c|}
\hline Shape of Head & Type of Push & Marking Text & Marking Color & Cap Color & Catalog Number \\
\hline \multirow{16}{*}{} & \multirow{16}{*}{Flush} & \multirow[b]{2}{*}{I} & White & Green & ZB4BA331 \\
\hline & & & Black & White & ZB4BA131 \\
\hline & & \multirow[b]{2}{*}{START} & White & Green & ZB4BA333 \\
\hline & & & Black & White & ZB4BA133 \\
\hline & & \multirow[b]{2}{*}{ON} & White & Green & ZB4BA341 \\
\hline & & & Black & White & ZB4BA141 \\
\hline & & RESET & White & Black & ZB4BA222 \\
\hline & & JOG & White & Black & ZB4BA245 \\
\hline & & \multirow[t]{2}{*}{0} & \multirow[t]{2}{*}{White} & Red & ZB4BA432 \\
\hline & & & & Black & ZB4BA232 \\
\hline & & \multirow[t]{2}{*}{STOP} & \multirow[t]{2}{*}{White} & Red & ZB4BA434 \\
\hline & & & & Black & ZB4BA234 \\
\hline & & \multirow[t]{2}{*}{OFF} & \multirow[t]{2}{*}{White} & Red & ZB4BA435 \\
\hline & & & & Black & ZB4BA235 \\
\hline & & \multirow[t]{2}{*}{† [6]} & Black & White & ZB4BA334 \\
\hline & & & White & Black & ZB4BA335 \\
\hline \multirow{6}{*}{} & \multirow{6}{*}{Extended} & \multirow[t]{2}{*}{0} & \multirow[t]{2}{*}{White} & Red & ZB4BL432 \\
\hline & & & & Black & ZB4BL232 \\
\hline & & \multirow[t]{2}{*}{STOP} & \multirow[t]{2}{*}{White} & Red & ZB4BL434 \\
\hline & & & & Black & ZB4BL234 \\
\hline & & \multirow[t]{2}{*}{OFF} & \multirow[t]{2}{*}{White} & Red & ZB4BL435 \\
\hline & & & & Black & ZB4BL235 \\
\hline
\end{tabular} page 19-39.

44 Color cap to be ordered separately, see XB4 Accessories, page 1y-40.
[5] For legend ordering information, see XB4 Legend Sheets, page 1y-3y.
[6] Cap supplied not clipped-in, allowing orientation of arrow in any one of 4 directions


ZB4BA73133


ZB4BA71124


Table 19.76: Two Head Operators, Momentary
\begin{tabular}{|c|c|c|c|c|c|}
\hline Shape of Head & Description & Marking & Cap Color & Degree of Protection & Catalog Number \\
\hline \multicolumn{6}{|l|}{No Marking} \\
\hline & \multirow[b]{2}{*}{Two flush} & - & Green Red & \multirow{3}{*}{\[
\begin{aligned}
& \text { IP66 } \\
& \text { IP69K }
\end{aligned}
\]} & ZB4BA7340 \\
\hline  & & - & White Black & & ZB4BA7120 \\
\hline  & One flush One extended & - & Green Red & & ZB4BL7340 \\
\hline \multicolumn{6}{|l|}{Premarked} \\
\hline \[
7
\] & \multirow[b]{2}{*}{Two flush} & \[
\begin{aligned}
& \text { "I" (white) } \\
& \text { "O" (white) }
\end{aligned}
\] & Green Red & \multirow{3}{*}{\[
\begin{aligned}
& \text { IP66 } \\
& \text { IP69K }
\end{aligned}
\]} & ZB4BA7341 \\
\hline \[
0
\] & & \begin{tabular}{l}
"I" (black) \\
"O" (white)
\end{tabular} & White Black & & ZB4BA7121 \\
\hline \[
1)
\] & One flush One extended & \begin{tabular}{l}
"I" (white) \\
"O" (white)
\end{tabular} & Green Red & & ZB4BL7341 \\
\hline \multicolumn{6}{|l|}{Without caps} \\
\hline  & Two flush without caps & - & - & \[
\begin{aligned}
& \text { IP66 } \\
& \text { IP69K }
\end{aligned}
\] & ZB4BA79 \\
\hline
\end{tabular}

For Legends, refer to XB4 Legend Holders, page 19-38, XB4 Legend Inserts, page 19-39, and XB4 Legend Sheets, page 19-39.


ZB4BR2


ZB4BS834


ZB4BS64


ZB4BT4

XB4 Operators and Emergency Stop Operators
Table 19.77: Mushroom Heads, Momentary
\begin{tabular}{|c|c|c|c|}
\hline Shape of Head & Diameter of Head & Color of Head & Catalog Number \\
\hline \multirow{15}{*}{} & \multirow{5}{*}{30 mm} & Black & ZB4BC24 \\
\hline & & Green & ZB4BC34 \\
\hline & & Red & ZB4BC44 \\
\hline & & Yellow & ZB4BC54 \\
\hline & & Blue & ZB4BC64 \\
\hline & \multirow{5}{*}{40 mm} & Black & ZB4BC2 \\
\hline & & Green & ZB4BC3 \\
\hline & & Red & ZB4BC4 \\
\hline & & Yellow & ZB4BC5 \\
\hline & & Blue & ZB4BC6 \\
\hline & \multirow{5}{*}{60 mm} & Black & ZB4BR2 \\
\hline & & Green & ZB4BR3 \\
\hline & & Red & ZB4BR4 \\
\hline & & Yellow & ZB4BR5 \\
\hline & & Blue & ZB4BR6 \\
\hline
\end{tabular}

Table 19.78: Mushroom Heads for Maintained Push Buttons
\begin{tabular}{|c|c|c|c|c|}
\hline Shape of Head & Type of Push & Diameter of Head & Color & Catalog Number \\
\hline \multicolumn{5}{|l|}{For use in Emergency Stop applications} \\
\hline & \multirow[b]{2}{*}{Trigger action Push-pull [7]} & 40 mm & Red & ZB4BT84 \\
\hline & & 60 mm & Red & ZB4BX84 \\
\hline \multirow[b]{4}{*}{} & \multirow{4}{*}{Trigger action Turn-to-release [7]} & 30 mm & Red & ZB4BS834 \\
\hline & & \multirow[t]{2}{*}{40 mm} & Red & ZB4BS844 \\
\hline & & & Red marked "EMO" & ZB4BS84430 \\
\hline & & 60 mm & Red & ZB4BS864 \\
\hline & \multirow[b]{3}{*}{Trigger action Key release (No. 455) [7]} & 30 mm & Red & ZB4BS934 \\
\hline & & 40 mm & Red & ZB4BS944 [8] \\
\hline \(\xrightarrow{3}\) & & 60 mm & Red & ZB4BS964 \\
\hline \multicolumn{5}{|l|}{For use in non-Emergency Stop applications} \\
\hline & \multirow[b]{2}{*}{Push-pull} & 40 mm & Black & ZB4BT2 \\
\hline & & 60 mm & Black & ZB4BX2 \\
\hline \multirow{5}{*}{} & \multirow{5}{*}{Turn-to-release} & 30 mm & Black & ZB4BS42 \\
\hline & & \multirow[b]{3}{*}{40 mm} & Black & ZB4BS52 \\
\hline & & & Yellow & ZB4BS55 \\
\hline & & & Yellow marked "Robot Stop" & ZB4BS5550 \\
\hline & & 60 mm & Black & ZB4BS62 \\
\hline \multirow[t]{3}{*}{} & \multirow[b]{3}{*}{Key release (No. 455)} & 30 mm & Black & ZB4BS72 \\
\hline & & 40 mm & Black & ZB4BS12 \\
\hline & & 60 mm & Black & ZB4BS22 \\
\hline
\end{tabular}

Table 19.79: Circular Legends for Emergency Stop Mushroom Heads (yellow background)
\begin{tabular}{c|l|c} 
Diameter & Text & Catalog Number \\
\multirow{3}{*}{90 mm} & Blank & ZBY8101 \\
\cline { 2 - 3 } & EMERGENCY STOP & ZBY8330 \\
\hline \multirow{3}{*}{60 mm Bezeled } & Blank & ZBY9121 \\
\cline { 2 - 3 } & Emergency Stop & ZBY9320 \\
\cline { 2 - 3 } & Prada de Emergencia & ZBY9420 \\
\cline { 2 - 3 } & Not Halt & ZBY9220 \\
\hline
\end{tabular}

For Legends, refer to XB4 Legend Holders, page 19-38, XB4 Legend Inserts, page 19-39, andXB4 Legend Sheets, page 19-39.
 action push button (per EN/IEC 13850).
[8] Other key numbers.
-key no. 421 E : add the suffix 12 to the catalog number.
-key no. 458A: add the suffix 10 to the catalog number.
-key no. 520 E : add the suffix 14 to the catalog number.
-key no. 3131 A : add the suffix 20 to the catalog number.
Example: The catalog number for a \(\varnothing 40 \mathrm{~mm}\) red mushroom head for a trigger action, maintained push button, with release by key no. 421E becomes: ZB5AS94412.
chneider-electric.us

XB4 Selector Switches
Table 19.80: Non-Illuminated Selector Switches [9]

\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Color} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Number and Type of Positions}} & Standard Lever [10] & Extended Lever \\
\hline & & & \multicolumn{2}{|c|}{Catalog Number} \\
\hline Black & 2-maintained &  & ZB4BD2 & ZB4BJ2 \\
\hline Black & 2-momentary from right to left & \[
\checkmark
\] & ZB4BD4 & ZB4BJ4 \\
\hline Black & 3-maintained & \(\downarrow\) & ZB4BD3 & ZB4BJ3 \\
\hline Black & 3-momentary to center & \[
\square^{2}
\] & ZB4BD5 & ZB4BJ5 \\
\hline Black & 3-momentary from left to center & \[
\boxtimes
\] & ZB4BD7 & ZB4BJ7 \\
\hline Black & 3-momentary from right to center &  & ZB4BD8 & ZB4BJ8 \\
\hline
\end{tabular}

Table 19.81: Non-Illuminated Key Switches [9]

\begin{tabular}{l} 
Table 19.81: Non-Iluminated Key Switches [9] \\
\begin{tabular}{l} 
Type of Operator
\end{tabular} \\
\hline
\end{tabular}

Table 19.82: Sequence of Contacts on Selector Switch Bodies


For Legends, refer to XB4 Legend Holders, page 19-38, XB4 Legend Inserts, page 19-39, and XB4 Legend Sheets, page 19-39.
For Selector Switch Sequence, refer to Table 19.97 Sequence of Contacts on Illuminated Selector Switch Bodies, page 19-34.


XB4 Specialty Operators
Table 19.83: Potentiometer Operator (with Mounting Collar)
\begin{tabular}{|c|c|c|c|}
\hline Shape of Head & Description & Application & Catalog Number \\
\hline \multirow[t]{2}{*}{(0)} & \multirow[t]{2}{*}{For potentiometer with shaft length 1.73 to 1.97 in. ( 45 to 50 mm ) (potentiometer not included)} & For shaft \(\varnothing 1 / 4 \mathrm{in}\). ( 6.35 mm ) & ZB4BD922 \\
\hline & & For shaft \(\varnothing 0.24 \mathrm{in}\). ( 6 mm ) & ZB4BD912 \\
\hline
\end{tabular}

Table 19.84: Complete Potentiometers
\begin{tabular}{c|c|c|c} 
Description & Resistance (k \(\Omega\) ) & Weight (kg/lb) & Catalog Number \\
\multirow{3}{*}{\begin{tabular}{c} 
+/- 10\% linear mode precision \\
complete potentiometer with \\
screw terminals
\end{tabular}} & 1 & \(0.095 / 0.209\) & XB4BD912R1K \\
\cline { 2 - 4 } & 4.7 & \(0.095 / 0.209\) & XB4BD912R4K7 \\
\cline { 2 - 4 } & 10 & \(0.095 / 0.209\) & XB4BD912R10K \\
\cline { 2 - 4 } & 47 & \(0.095 / 0.209\) & XB4BD912R47K \\
\cline { 2 - 4 } & 100 & \(0.095 / 0.209\) & XB4BD912R100K \\
\cline { 2 - 5 } & 470 & \(0.095 / 0.209\) & XB4BD912R470K \\
\hline
\end{tabular}

Table 19.85: Joysticks (54 mm, Extended Operating Shaft) [11]
\begin{tabular}{|c|c|c|c|}
\hline Description & Contact Operation & Action & Catalog Number \\
\hline \multirow[t]{2}{*}{2 direction} & \multirow[b]{2}{*}{1 step 1 N.O. contact per direction} & Maintained & XD4PA12 \\
\hline & & Momentary & XD4PA22 \\
\hline \multirow[t]{2}{*}{4 direction} & \multirow[b]{2}{*}{1 step 1 N.O. contact per direction} & Maintained & XD4PA14 \\
\hline & & Momentary & XD4PA24 \\
\hline
\end{tabular}

Table 19.86: Legends for Joysticks
\begin{tabular}{l|c|c|c}
\multicolumn{1}{c|}{ Description } & For use with & Color & Catalog Number \\
\begin{tabular}{l} 
Legends \\
\(30 \times 48 \mathrm{~mm}\) for customer \\
engraving
\end{tabular} & \multirow{3}{*}{2 direction } & \begin{tabular}{c} 
Black one side \\
Red reverse
\end{tabular} & ZBG2201 \\
\hline \begin{tabular}{l} 
Legends \\
\begin{tabular}{l} 
Ren \\
engraving
\end{tabular}
\end{tabular} & \begin{tabular}{c} 
White one side \\
Yellow reverse
\end{tabular} & ZBG2401 \\
\hline
\end{tabular}

Table 19.87: Two Position Toggle Switch
\begin{tabular}{c|c|c|c} 
Shape of Head & Color & Type of Positions & Catalog Number \\
\cline { 2 - 4 } & Black & Maintained & ZB4BD28 \\
\cline { 2 - 4 } & Black & Momentary & ZB4BD48 \\
\hline
\end{tabular}

Table 19.88: Reset Operators, Flush, Adjustable Shaft
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of Head} & \multicolumn{2}{|c|}{Travel} & \multicolumn{2}{|l|}{Actuation Distance} & \multirow[t]{2}{*}{Color} & \multirow[t]{2}{*}{Catalog Number} \\
\hline & in. & mm & in. & mm & & \\
\hline & \multirow{6}{*}{0.39} & \multirow{6}{*}{10} & \multirow{3}{*}{\[
\begin{gathered}
0.24- \\
0.63
\end{gathered}
\]} & \multirow{3}{*}{6-16} & Black & XB4BA821 \\
\hline & & & & & Red & XB4BA841 \\
\hline & & & & & Blue & XB4BA861 \\
\hline & & & \multirow{3}{*}{\[
\begin{gathered}
0.63- \\
1.02
\end{gathered}
\]} & \multirow{3}{*}{16-26} & Black & XB4BA822 \\
\hline & & & & & Red & XB4BA842 \\
\hline & & & & & Blue & XB4BA862 \\
\hline & \multirow{6}{*}{0.55} & \multirow{6}{*}{14} & \multirow{3}{*}{\[
\begin{aligned}
& 1.18- \\
& 5.12
\end{aligned}
\]} & \multirow{3}{*}{30-130} & Black & XB4BA921 \\
\hline & & & & & Red & XB4BA941 \\
\hline & & & & & Blue & XB4BA961 \\
\hline & & & \multirow{3}{*}{\[
\begin{aligned}
& 5.12- \\
& 10.12
\end{aligned}
\]} & \multirow{3}{*}{130-257} & Black & XB4BA922 \\
\hline & & & & & Red & XB4BA942 \\
\hline & & & & & Blue & XB4BA962 \\
\hline
\end{tabular}

For Legends, refer to XB4 Legend Holders, page 19-38, XB4 Legend Inserts, page 19-39, and XB4 Legend Sheets, page 19-39.



ZB4BV04


ZB4BV043S


XB4 Pilot Lights
Table 19.89: Pilot Light Heads
\begin{tabular}{c|c|c|c} 
Shape of Head & \begin{tabular}{c} 
For Use with Body \\
Comprising Light \\
Module Type
\end{tabular} & Color of Lens
\end{tabular} Catalog Number

Table 19.90: Complete Bodies (Mounting Collar + Light Module for BA9s Incandescent Bulb, Neon or LED)
\begin{tabular}{|c|c|c|c|}
\hline Description & Light Source & Supply Voltage (V) & Catalog Number \\
\hline \multicolumn{4}{|l|}{Screw clamp terminal connections} \\
\hline Direct supply & BA9s bulb 2.4 W max. Not included [13] & <250 & ZB4BV6 \\
\hline Direct supply & BA9s incandescent bulb included & 24 v 2 Watt & ZB4BV624 \\
\hline Direct supply & BA9s incandescent bulb included & 120 v 2.4 Watt & ZB4BV6120 \\
\hline \multirow{5}{*}{Transformer type 1.2 VA, 6 V secondary} & \multirow{5}{*}{BA9s incandescent bulb included} & \[
\begin{gathered}
110-120 \mathrm{Vac} \\
50 / 60 \mathrm{~Hz}
\end{gathered}
\] & ZB4BV3 \\
\hline & & \[
\begin{gathered}
\hline 230-240 \mathrm{Vac} \\
50 / 60 \mathrm{~Hz} \\
\hline
\end{gathered}
\] & ZB4BV4 \\
\hline & & \(400-50 \mathrm{~Hz}\) & ZB4BV5 \\
\hline & & \[
\begin{gathered}
440-480 \mathrm{Vac} \\
60 \mathrm{~Hz} \\
\hline
\end{gathered}
\] & ZB4BV8 \\
\hline & & \[
\begin{gathered}
550-600 \mathrm{Vac} \\
60 \mathrm{~Hz} \\
\hline
\end{gathered}
\] & ZB4BV9 \\
\hline
\end{tabular}

Table 19.91: Complete Bodies (Mounting Collar + Light Module with Protected LED \({ }^{\text {TM }}\) ) \({ }^{\text {[14] }}\)
\begin{tabular}{|c|c|c|c|}
\hline Light Source & Supply Voltage & Color of Light Source & Catalog Number \\
\hline \multicolumn{4}{|l|}{Screw clamp terminal connections [15]} \\
\hline \multirow{4}{*}{} & \(12 \mathrm{Vac} / \mathrm{Vdc}\) & White Green Red Yellow Blue & \[
\begin{aligned}
& \text { ZB4BVJ1 } \\
& \text { ZB4BVJ3 } \\
& \text { ZB4BVJ4 } \\
& \text { ZB4BVJ5 } \\
& \text { ZB4BVJ6 }
\end{aligned}
\] \\
\hline & \(24 \mathrm{Vac} / \mathrm{Vdc}\) & White Green Red Yellow Blue & \[
\begin{aligned}
& \hline \text { ZB4BVB1 } \\
& \text { ZB4BVB3 } \\
& \text { ZB4BVB4 } \\
& \text { ZB4BVB5 } \\
& \text { ZB4BVB6 } \\
& \hline
\end{aligned}
\] \\
\hline & 24-120 Vac/Vdc & White Green Red Yellow Blue & \[
\begin{aligned}
& \hline \text { ZB4BVBG1 } \\
& \text { ZB4BVBG3 } \\
& \text { ZB4BVBG4 } \\
& \text { ZB4BVBG5 } \\
& \text { ZB4BVBG6 } \\
& \hline
\end{aligned}
\] \\
\hline & 110-120 Vac & White Green Red Yellow Blue & \begin{tabular}{l}
ZB4BVG1 \\
ZB4BVG3 \\
ZB4BVG4 \\
ZB4BVG5 \\
ZB4BVG6
\end{tabular} \\
\hline \multirow[t]{2}{*}{Flashing} & \(24 \mathrm{Vac} / \mathrm{Vdc}\) & White Green Red Yellow Blue & ZB4BV18B1 ZB4BV18B3 ZB4BV18B4 ZB4BV18B5 ZB4BV18B6 \\
\hline & 110-120 Vac & White Green Red Yellow Blue & ZB4BV18G1 ZB4BV18G3 ZB4BV18G4 ZB4BV18G5 ZB4BV18G6 \\
\hline
\end{tabular}

For Legends, refer to XB4 Legend Holders, page 19-38, XB4 Legend Inserts, page 19-39 and XB4 Legend Sheets, page 19-39.


XB4 Illuminated Operators
Table 19.92: Heads for Momentary Illuminated Push Buttons
\begin{tabular}{|c|c|c|c|}
\hline Shape of Head & Type of Push & Color & Catalog Number \\
\hline \multicolumn{4}{|l|}{Only use with Protected LED \({ }^{\text {M }}\) light modules} \\
\hline \multirow{5}{*}{} & \multirow{5}{*}{Flush} & White & ZB4BW313 \\
\hline & & Green & ZB4BW333 \\
\hline & & Red & ZB4BW343 \\
\hline & & Yellow & ZB4BW353 \\
\hline & & Blue & ZB4BW363 \\
\hline \multirow{5}{*}{} & \multirow{5}{*}{Flush with clear silicone boot} & White & ZB4BW513 \\
\hline & & Green & ZB4BW533 \\
\hline & & Red & ZB4BW543 \\
\hline & & Yellow & ZB4BW553 \\
\hline & & Blue & ZB4BW563 \\
\hline \multirow{5}{*}{} & \multirow{5}{*}{Flush for insertion of legend} & White & ZB4BA18 \\
\hline & & Green & ZB4BA38 \\
\hline & & Red & ZB4BA48 \\
\hline & & Yellow & ZB4BA58 \\
\hline & & Blue & ZB4BA68 \\
\hline \multirow{5}{*}{} & \multirow{5}{*}{Extended} & White & ZB4BW113 \\
\hline & & Green & ZB4BW133 \\
\hline & & Red & ZB4BW143 \\
\hline & & Yellow & ZB4BW153 \\
\hline & & Blue & ZB4BW163 \\
\hline & \multirow{5}{*}{Mushroom (40 mm)} & Clear & ZB4BW413 \\
\hline & & Green & ZB4BW433 \\
\hline & & Red & ZB4BW443 \\
\hline & & Yellow & ZB4BW453 \\
\hline & & Blue & ZB4BW463 \\
\hline \multicolumn{4}{|l|}{Only use with light modules for a BA9s incandescent bulb, neon or LED} \\
\hline \multirow{6}{*}{} & \multirow{6}{*}{Flush} & White & ZB4BW31 \\
\hline & & Green & ZB4BW33 \\
\hline & & Red & ZB4BW34 \\
\hline & & Yellow & ZB4BW35 \\
\hline & & Blue & ZB4BW36 \\
\hline & & Clear & ZB4BW37 \\
\hline \multirow{6}{*}{(3)} & \multirow{6}{*}{Extended} & White & ZB4BW11 \\
\hline & & Green & ZB4BW13 \\
\hline & & Red & ZB4BW14 \\
\hline & & Yellow & ZB4BW15 \\
\hline & & Blue & ZB4BW16 \\
\hline & & Clear & ZB4BW17 \\
\hline
\end{tabular}

Table 19.93: Heads for Maintained Illuminated Push Buttons
\begin{tabular}{|c|c|c|c|}
\hline Shape of Head & Type of Push & Color of Lens & Catalog Number \\
\hline \multicolumn{4}{|l|}{Only use with Protected LED light modules} \\
\hline & & Clear & ZB4BW613 \\
\hline & & Green & ZB4BW633 \\
\hline & Push/Pull Mushroom (40 mm) & Red & ZB4BW643 \\
\hline & & Yellow & ZB4BW653 \\
\hline & & Blue & ZB4BW663 \\
\hline
\end{tabular}

Table 19.94: Illuminated Push-On/Push-Off Operators
\begin{tabular}{|c|c|c|c|}
\hline Shape of Head & Type of Push & Color of Lens & Catalog Number \\
\hline \multicolumn{4}{|l|}{Only use with Protected LED light modules} \\
\hline \multirow{5}{*}{} & \multirow{5}{*}{Flush} & White & ZB4BH013 \\
\hline & & Green & ZB4BH033 \\
\hline & & Red & ZB4BH043 \\
\hline & & Yellow & ZB4BH053 \\
\hline & & Blue & ZB4BH063 \\
\hline \multirow{5}{*}{} & \multirow{5}{*}{Extended} & White & ZB4BH13 \\
\hline & & Green & ZB4BH33 \\
\hline & & Red & ZB4BH43 \\
\hline & & Yellow & ZB4BH53 \\
\hline & & Blue & ZB4BH63 \\
\hline
\end{tabular} page 19-39.
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ZB4BK1343
Table 19.95: Two Button with Clear Pilot Light, Momentary
\begin{tabular}{|c|c|c|c|c|c|}
\hline Shape of Head & Description & Marking & Cap Color & Degree of
Protection & Catalog \\
\hline \multicolumn{6}{|l|}{No Marking} \\
\hline \multirow[b]{2}{*}{} & \multirow[b]{2}{*}{Two flush} & - & \[
\begin{aligned}
& \text { Green } \\
& \text { Red }
\end{aligned}
\] & \multirow{3}{*}{\[
\begin{aligned}
& \text { IP66 } \\
& \text { IP69K }
\end{aligned}
\]} & ZB4BW7A3740 \\
\hline & & - & White & & ZB4BW7A1720 \\
\hline - & One flush One extended & - & \[
\begin{aligned}
& \text { Green } \\
& \text { Red }
\end{aligned}
\] & & zB4BW7L3740 \\
\hline \multicolumn{6}{|l|}{Premarked} \\
\hline \multirow[t]{2}{*}{} & \multirow[b]{2}{*}{Two flush} & \[
\begin{aligned}
& \text { "" "(white) } \\
& \text { "O" (white) }
\end{aligned}
\] & Green Red & \multirow{5}{*}{IP66
IP69K} & ZB4BW7A3741 \\
\hline & & \[
\begin{aligned}
& \text { "I" (black) } \\
& \text { "O" (white) }
\end{aligned}
\] & White & & ZB4BW7A1721 \\
\hline  & \begin{tabular}{l}
One flush \\
One extended
\end{tabular} & "O" (white) & \[
\begin{aligned}
& \text { Green } \\
& \text { Red }
\end{aligned}
\] & & ZB4BW7L3741 \\
\hline  & Two flush &  & White Black & & ZB4BW7A1724 \\
\hline tec & Two flush & \[
\begin{aligned}
& \text { "+" (black) } \\
& \text { "-" (white) }
\end{aligned}
\] & White
Black & & ZB4BW7A1715 \\
\hline \multicolumn{6}{|l|}{Without caps} \\
\hline & Two flush without caps & - & - & \[
\begin{gathered}
\text { IP66 } \\
\text { IP69K }
\end{gathered}
\] & zB4BW7A9 \\
\hline
\end{tabular}

Table 19.96: Illuminated Selector Switches, Standard Lever
\begin{tabular}{|c|c|c|c|}
\hline Shape of Head & \multicolumn{2}{|l|}{Number and Type of Positions} & Catalog Number [16] \\
\hline \multicolumn{4}{|l|}{Only use with Protected LED light modules} \\
\hline \multirow{6}{*}{} & 2-maintained & V & ZB4BK12•3 \\
\hline & 2-momentary from right to left &  & ZB4BK14•3 \\
\hline & 3-maintained & \(\downarrow\) & ZB4BK13•3 \\
\hline & 3-momentary to center & \(\checkmark\) & ZB4BK15•3 \\
\hline & 3-momentary from right to center & \(\downarrow\) & ZB4BK18•3 \\
\hline & 3-momentary from left to center & \[
\checkmark
\] & ZB4BK17•3 \\
\hline
\end{tabular}

Table 19.97: Sequence of Contacts on Illuminated Selector Switch Bodies


For Legends, refer to XB4 Legend Holders, page 19-38, XB4 Legend Inserts, page 19-39, and XB4 Legend Sheets, page 19-39.
For Caps, refer to XB4 Accessories, page 19-40.

XB4 Electrical Components
Table 19.98: Contact Blocks (Mounting Collar with Contact Blocks)
\begin{tabular}{|c|c|c|c|}
\hline \multirow[b]{2}{*}{Description} & \multicolumn{2}{|c|}{Type of Contact} & \multirow[b]{2}{*}{Catalog Number} \\
\hline & N.O. & N.C. & \\
\hline \multirow{6}{*}{Screw clamp terminal connections} & 1 & - & ZB4BZ101 \\
\hline & - & 1 & ZB4BZ102 \\
\hline & 2 & - & ZB4BZ103 \\
\hline & - & 2 & ZB4BZ104 \\
\hline & 1 & 1 & ZB4BZ105 \\
\hline & 1 & 2 & ZB4BZ141 \\
\hline
\end{tabular}

For Quick-Connect version add "3" to the end of the catalog number Example: ZB4BZ1013 (Quick-Connect size \(1 \times\) 0.250 " or \(2 \times 0.110^{\prime \prime}\) ).

For Ring Tongue compatible blocks add " 9 " to the end of the catalog number (Example: ZB4BZ1029).
Electrical components with connection by printed circuit board pins are available. Refer to Catalog 9001CT0001. Electrical components with connection by plug-in connector are available. Refer to Catalog 9001CT0001.

Table 19.99: Complete Bodies
(Mounting Collar + Single Contact Block + Light Module with Protected LED \({ }^{\text {TM }}\) )
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow{3}{*}{Light Source} & \multicolumn{2}{|l|}{\[
\begin{gathered}
\text { Type of Contact } \\
{[17]} \\
\hline
\end{gathered}
\]} & \multirow{3}{*}{Color} & \multicolumn{2}{|l|}{Supply Voltage [18]} \\
\hline & \multirow[b]{2}{*}{N.O.} & \multirow[b]{2}{*}{N.C.} & & \(24 \mathrm{Vac} / \mathrm{Vdc}\) & 110-120 Vac \\
\hline & & & & \multicolumn{2}{|c|}{Catalog Number} \\
\hline \multicolumn{6}{|l|}{Screw clamp terminal connections} \\
\hline & & & White & ZB4BW0B11 & ZB4BW0G11 \\
\hline & & & Green & ZB4BW0B31 & ZB4BW0G31 \\
\hline & 1 & - & Red & ZB4BW0B41 & ZB4BW0G41 \\
\hline & & & Yellow & ZB4BW0B51 & ZB4BW0G51 \\
\hline & & & Blue & ZB4BW0B61 & ZB4BW0G61 \\
\hline & \multirow{5}{*}{-} & \multirow{5}{*}{1} & White & ZB4BW0B12 & ZB4BW0G12 \\
\hline & & & Green & ZB4BW0B32 & ZB4BW0G32 \\
\hline & & & Red & ZB4BW0B42 & ZB4BW0G42 \\
\hline \multirow{12}{*}{Protecte} & & & Yellow & ZB4BW0B52 & ZB4BW0G52 \\
\hline & & & Blue & ZB4BW0B62 & ZB4BW0G62 \\
\hline & \multirow{5}{*}{2} & \multirow{5}{*}{-} & White & ZB4BW0B13 & ZB4BW0G13 \\
\hline & & & Green & ZB4BW0B33 & ZB4BW0G33 \\
\hline & & & Red & ZB4BW0B43 & ZB4BW0G43 \\
\hline & & & Yellow & ZB4BW0B53 & ZB4BW0G53 \\
\hline & & & Blue & ZB4BW0B63 & ZB4BW0G63 \\
\hline & \multirow{5}{*}{1} & \multirow{5}{*}{1} & White & ZB4BW0B15 & ZB4BW0G15 \\
\hline & & & Green & ZB4BW0B35 & ZB4BW0G35 \\
\hline & & & Red & ZB4BW0B45 & ZB4BW0G45 \\
\hline & & & Yellow & ZB4BW0B55 & ZB4BW0G55 \\
\hline & & & Blue & ZB4BW0B65 & ZB4BW0G65 \\
\hline
\end{tabular}

Table 19.100: Mounting Collar, Contact Block and Light Module (with screw clamp terminal connections)


ZB4BW0.5
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Supply} & \multirow[t]{2}{*}{Light Source} & \multirow[t]{2}{*}{Supply Voltage} & \multicolumn{2}{|l|}{Type of Contact [19]} & \multirow[t]{2}{*}{Color of Light Source} & \multirow[t]{2}{*}{Catalog Number} \\
\hline & & & N.O. & N.C. & & \\
\hline \multicolumn{7}{|l|}{Screw clamp terminal connections} \\
\hline \multirow{4}{*}{Direct supply} & \multirow[b]{4}{*}{\begin{tabular}{l}
BA9s \\
2.4 W max. bulb \\
Not included [20]
\end{tabular}} & \multirow{4}{*}{< \(250 \mathrm{Vac} / \mathrm{Vdc}\)} & 1 & - & - & ZB4BW061 \\
\hline & & & - & 1 & - & ZB4BW062 \\
\hline & & & 2 & - & - & ZB4BW063 \\
\hline & & & 1 & 1 & - & ZB4BW065 \\
\hline \multirow{5}{*}{Transformer type 1.2 VA, 6 V secondary} & \multirow{5}{*}{BA9s incandescent bulb included} & \multirow[t]{2}{*}{\[
\begin{gathered}
110-120 \mathrm{Vac} \\
50 / 60 \mathrm{~Hz} \\
\hline
\end{gathered}
\]} & 1 & - & - & ZB4BW031 \\
\hline & & & 1 & 1 & - & ZB4BW035 \\
\hline & & \multirow[t]{2}{*}{\[
\begin{gathered}
230-240 \mathrm{Vac} \\
50 / 60 \mathrm{~Hz}
\end{gathered}
\]} & 1 & - & - & ZB4BW041 \\
\hline & & & 1 & 1 & - & ZB4BW045 \\
\hline & & \[
\begin{gathered}
440-480 \mathrm{Vac} \\
60 \mathrm{~Hz} \\
\hline
\end{gathered}
\] & 1 & - & - & ZB4BW081 \\
\hline
\end{tabular}


Table 19.101: Body/Mounting Collar
\begin{tabular}{l|c}
\hline For use with & Catalog Number \\
\hline Electrical block (contact or light module) & ZB4BZ009 \\
\hline
\end{tabular}

Table 19.102: Add-On Contact Block (with screw clamp terminal connections) [21] [22]
\begin{tabular}{|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{\multirow[b]{2}{*}{Description}} & \multicolumn{2}{|c|}{Type of Contact} & \multirow[b]{2}{*}{Catalog Number} \\
\hline & & N.O. & N.C. & \\
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Standard single contact blocks [23][24]}} & 1 & - & ZBE101 \\
\hline & & - & 1 & ZBE102 \\
\hline \multicolumn{2}{|l|}{\multirow{3}{*}{Standard double contact blocks [23][24]}} & 2 & - & ZBE203 \\
\hline & & - & 2 & ZBE204 \\
\hline & & 1 & 1 & ZBE205 \\
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Special contact blocks for low power switching [25]}} & 1 & - & ZBE1016 \\
\hline & & - & 1 & ZBE1026 \\
\hline \multirow[t]{2}{*}{Low-power switching} & \multirow[t]{2}{*}{Dusty environment [25] (IP5X, \(50 \mu \mathrm{~m}\) dust)} & 1 & - & ZBE1016P \\
\hline & & - & 1 & ZBE1026P \\
\hline \multirow{4}{*}{Staggered contacts} & Early make & 1 & - & ZBE201 \\
\hline & Late break
N.C.
N.C. & - & 1 & ZBE202 \\
\hline & Overlapping N.O.+N.C. & 1 & 1 & ZB4BZ106 \\
\hline & Staggered
N.O.+N.C. & - & 2 & ZB4BZ107 \\
\hline
\end{tabular}

Table 19.103: Light Modules (with screw clamp terminal connections) [21][22]


ZBVB•
\begin{tabular}{|c|c|c|c|}
\hline Description & Supply Voltage & Color of Light Source & Catalog Number \\
\hline & & White & ZBVJ1 \\
\hline & & Green & ZBVJ3 \\
\hline & \(12 \mathrm{Vac} / \mathrm{Vdc}\) & Red & ZBVJ4 \\
\hline & & Yellow & ZBVJ5 \\
\hline & & Blue & ZBVJ6 \\
\hline & & White & ZBVB1 \\
\hline & & Green & ZBVB3 \\
\hline & \(24 \mathrm{Vac} / \mathrm{Vdc}\) & Red & ZBVB4 \\
\hline & & Yellow & ZBVB5 \\
\hline & & Blue & ZBVB6 \\
\hline cted & & White & ZBVG1 \\
\hline rotected & & Green & ZBVG3 \\
\hline & 110-120 Vac & Red & ZBVG4 \\
\hline & & Yellow & ZBVG5 \\
\hline & & Blue & ZBVG6 \\
\hline & & White & ZBVBG1 \\
\hline & & Green & ZBVBG3 \\
\hline & 24-120 Vac/Vdc & Red & ZBVBG4 \\
\hline & & Yellow & ZBVBG5 \\
\hline & & Blue & ZBVBG6 \\
\hline & & White & ZBVM1 \\
\hline & & Green & ZBVM3 \\
\hline & 230-240 Vac & Red & ZBVM4 \\
\hline & & Yellow & ZBVM5 \\
\hline & & Blue & ZBVM6 \\
\hline \begin{tabular}{l}
Direct supply for BA9s \\
2.4 W max. bulb not included \\
See Table 19.119 BA9s Bulbs and Associated Accessories, page 19-41
\end{tabular} & < \(250 \mathrm{Vac} / \mathrm{Vdc}\) & - & ZBV6 \\
\hline
\end{tabular}


Table 19.104: Body/Mounting Collar
\begin{tabular}{l|c|}
\hline For use with & Catalog Number \\
\hline Contact block or light module & ZB4BZ009 \\
\hline
\end{tabular}

Table 19.105: Contact Blocks [26]
\begin{tabular}{|c|c|c|c|c|}
\hline \multicolumn{5}{|l|}{Spring Terminal Connections, Contacts for Standard Applications} \\
\hline Description & Type of contact & \[
\left.\right|_{\text {N.O. }} ^{1}
\] & \[
\overbrace{\text { N.C. }}^{\rightarrow}
\] & Catalog Number \\
\hline \multirow{6}{*}{Contact blocks} & \multirow[t]{2}{*}{Single} & 1 & - & ZBE1015 \\
\hline & & - & 1 & ZBE1025 \\
\hline & \multirow[b]{4}{*}{Single with body/mounting collar} & 1 & - & ZB4BZ1015 \\
\hline & & - & 1 & ZB4BZ1025 \\
\hline & & 2 & - & ZB4BZ1035 \\
\hline & & - & 2 & ZB4BZ1045 \\
\hline
\end{tabular}

Table 19.106: Light Modules [26]
\begin{tabular}{|c|c|c|c|}
\hline \multicolumn{4}{|l|}{Spring Terminal Connections} \\
\hline Description & Supply voltage & Color of light source & Catalog Number \\
\hline \multirow{20}{*}{Integral LED (to combine with heads for integral LED) protected} & \multirow{5}{*}{\(12 \mathrm{Vac} / \mathrm{Vdc}\)} & White & ZBVJ15 \\
\hline & & Green & ZBVJ35 \\
\hline & & Red & ZBVJ45 \\
\hline & & Orange & ZBVJ55 \\
\hline & & Blue & ZBVJ65 \\
\hline & \multirow{5}{*}{\(24 \mathrm{Vac} / \mathrm{Vdc}\)} & White & ZBVB15 \\
\hline & & Green & ZBVB35 \\
\hline & & Red & ZBVB45 \\
\hline & & Orange & ZBVB55 \\
\hline & & Blue & ZBVB65 \\
\hline & \multirow{5}{*}{110-120 Vac} & White & ZBVG15 \\
\hline & & Green & ZBVG35 \\
\hline & & Red & ZBVG45 \\
\hline & & Orange & ZBVG55 \\
\hline & & Blue & ZBVG65 \\
\hline & \multirow{5}{*}{230-240 Vac} & White & ZBVM15 \\
\hline & & Green & ZBVM35 \\
\hline & & Red & ZBVM45 \\
\hline & & Orange & ZBVM55 \\
\hline & & Blue & ZBVM65 \\
\hline
\end{tabular}
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\section*{XB4 Legend Holders}

Table 19.107: Standard ( \(30 \times 40 \mathrm{~mm}\) ) Legend Holders for \(8 \times 27 \mathrm{~mm}\) Legends

\begin{tabular}{|c|c|c|c|}
\hline \multirow[b]{2}{*}{Description} & \multicolumn{2}{|r|}{Legend} & \multirow[b]{2}{*}{Catalog Number} \\
\hline & Color & Text & \\
\hline Without legend [27] & - & - & ZBZ32 \\
\hline \multirow[t]{2}{*}{With blank legend (for engraving)} & Black or red background & - & ZBY2101 \\
\hline & White or yellow background & - & ZBY4101 \\
\hline \multirow[t]{4}{*}{Custom Legend (Specify Engraving) 2 lines of 11 characters (including spaces) maximum per line} & Black background & White & ZBY2002 \\
\hline & Red background & White & ZBY2004 \\
\hline & White background & Black & ZBY4001 \\
\hline & Yellow background & Black & ZBY4005 \\
\hline \multirow{7}{*}{With legend marked with international language} & \multirow{7}{*}{Black or red background [28]} & O (black background) & ZBY2146 \\
\hline & & O (red background) & ZBY2931 \\
\hline & & I & ZBY2147 \\
\hline & & 11 & ZBY2148 \\
\hline & & O-I & ZBY2178 \\
\hline & & I-II & ZBY2179 \\
\hline & & I-O-II & ZBY2186 \\
\hline \multirow{29}{*}{With legend marked with English language} & \multirow{29}{*}{Black or red background[28]} & AUTO & ZBY2115 \\
\hline & & AUTO-HAND & ZBY2364 \\
\hline & & AUTO-O-HAND & ZBY2385 \\
\hline & & CLOSE & ZBY2314 \\
\hline & & DOWN & ZBY2308 \\
\hline & & EMERGENCY STOP & ZBY2330 \\
\hline & & FAST & ZBY2328 \\
\hline & & FORWARD & ZBY2305 \\
\hline & & FOR-REV & ZBY2371 \\
\hline & & HAND & ZBY2316 \\
\hline & & HAND-OFF-AUTO & ZBY2387 \\
\hline & & INCH & ZBY2321 \\
\hline & & JOG & ZBY2382 \\
\hline & & LEFT & ZBY2310 \\
\hline & & OFF & ZBY2312 \\
\hline & & OFF-ON & ZBY2367 \\
\hline & & ON & ZBY2311 \\
\hline & & OPEN & ZBY2313 \\
\hline & & POWER ON & ZBY2326 \\
\hline & & RESET (red background) & ZBY2323 \\
\hline & & RESET (black background) & ZBY2322 \\
\hline & & REVERSE & ZBY2306 \\
\hline & & RIGHT & ZBY2309 \\
\hline & & RUN & ZBY2334 \\
\hline & & SLOW & ZBY2327 \\
\hline & & START & ZBY2303 \\
\hline & & STOP & ZBY2304 \\
\hline & & STOP-START & ZBY2366 \\
\hline & & UP & ZBY2307 \\
\hline
\end{tabular}

Table 19.108: Large ( \(30 \times 50 \mathrm{~mm}\) ) Legend Holders for \(18 \times 27 \mathrm{~mm}\) Legends
\begin{tabular}{l|l|c}
\hline Description [29] & Color & Catalog Number \\
Without legend insert & - & ZBZ33 \\
\hline \multirow{2}{*}{ With blank legend insert } & Black or red background & ZBY6101 \\
\cline { 2 - 3 } & White or yellow background & ZBY6102 \\
\hline
\end{tabular}

Table 19.109: \(30 \times 40 \mathrm{~mm}\) legend holder (flush mounting with bezel) for \(\mathbf{8 \times 2 7} \mathbf{~ m m}\) legends
\begin{tabular}{l|l|c}
\hline Description [29] & Color & Catalog Number \\
Without legend & - & ZBZ34 \\
\hline \multirow{2}{*}{ With blank legend } & Black or red background & ZBY2H101 \\
\cline { 2 - 3 } & White or yellow background & ZBY4H101 \\
\hline
\end{tabular}

Table 19.110: \(30 \times 50 \mathrm{~mm}\) legend holder (flush mounting with bezel) for \(18 \times 27 \mathrm{~mm}\) legends
\begin{tabular}{l|l|c}
\hline Description [29] & Color & Catalog Number \\
Without legend & - & ZBZ35 \\
\hline With blank legend & Black or red background & ZBY6H101 \\
\hline & White or yellow background & ZBY6H102 \\
\hline
\end{tabular}

\footnotetext{
[27] For marked legends, see, Table 19.111 Marked Legends for \(30 \times 40 \mathrm{~mm}\) legend holders, page 19-39.
[28] Start functions: white letters on black background. Stop functions: white letters on red background (unless otherwise specified above).
[29] For custom Legends, see Iable 19.112 Legends for Customer Engraving (inserts only), page 19-3y and Iable 19.113 Legends for Factory Engraving (inserts only), page 19-39.
}


ZBY1101

XB4 Legend Inserts
Table 19.111: Marked Legends for \(8 \times 27 \mathrm{~mm}\) (for \(30 \times 40 \mathrm{~mm}\) legend holders ZBZ32)
\begin{tabular}{|c|c|c|c|}
\hline Color & Marking & Text & Catalog Number \\
\hline \multirow{36}{*}{Black or red background [30]} & \multirow{7}{*}{International} & O (black background) & ZBY02146 \\
\hline & & O (red background) & ZBY02931 \\
\hline & & 1 & ZBY02147 \\
\hline & & II & ZBY02148 \\
\hline & & O-I & ZBY02178 \\
\hline & & I-II & ZBY02179 \\
\hline & & I-O-II & ZBY02186 \\
\hline & \multirow{29}{*}{English} & AUTO & ZBY02115 \\
\hline & & AUTO-HAND & ZBY02364 \\
\hline & & AUTO-O-HAND & ZBY02385 \\
\hline & & CLOSE & ZBY02314 \\
\hline & & DOWN & ZBY02308 \\
\hline & & EMERGENCY STOP & ZBY02330 \\
\hline & & FAST & ZBY02328 \\
\hline & & FORWARD & ZBY02305 \\
\hline & & FOR-REV & ZBY02371 \\
\hline & & HAND & ZBY02316 \\
\hline & & HAND-OFF-AUTO & ZBY02387 \\
\hline & & INCH & ZBY02321 \\
\hline & & JOG & ZBY02382 \\
\hline & & LEFT & ZBY02310 \\
\hline & & OFF & ZBY02312 \\
\hline & & OFF-ON & ZBY02367 \\
\hline & & ON & ZBY02311 \\
\hline & & OPEN & ZBY02313 \\
\hline & & POWER ON & ZBY02326 \\
\hline & & RESET (red background) & ZBY02323 \\
\hline & & RESET (black background) & ZBY02322 \\
\hline & & REVERSE & ZBY02306 \\
\hline & & RIGHT & ZBY02309 \\
\hline & & RUN & ZBY02334 \\
\hline & & SLOW & ZBY02327 \\
\hline & & START & ZBY02303 \\
\hline & & STOP & ZBY02304 \\
\hline & & STOP-START & ZBY02366 \\
\hline & & UP & ZBY02307 \\
\hline
\end{tabular}

Table 19.112: Legends for Customer Engraving (inserts only)
\begin{tabular}{l|c|c|c|c} 
Description & For use with & Color & Text & Catalog Number \\
\multirow{2}{*}{\(8 \times 27 \mathrm{~mm}\)} & \begin{tabular}{c}
\(30 \times 40 \mathrm{~mm}\) \\
legend holders
\end{tabular} & Black or red background & White & ZBY0101 \\
\cline { 3 - 5 } & White or yellow background & Black & ZBY0102 \\
\hline \multirow{2}{*}{\(18 \times 27 \mathrm{~mm}\)} & \begin{tabular}{c}
\(30 \times 50 \mathrm{~mm}\) \\
legend holders
\end{tabular} & Black or red background & White & ZBY5101 \\
\cline { 3 - 5 } & White or yellow background & Black & ZBY5102 \\
\hline
\end{tabular}

Table 19.113: Legends for Factory Engraving (inserts only)
\begin{tabular}{|c|c|c|c|c|}
\hline Description & For use with & Color & Text Color & Catalog Number \\
\hline \multirow[t]{4}{*}{\begin{tabular}{l}
\(8 \times 27 \mathrm{~mm}\) Custom Legend/Insert Only (Specify Engraving) 2 lines of 11 characters (including spaces) maximum per line \\
(Example: ZBY01002 marked "Robot")
\end{tabular}} & \multirow{4}{*}{\[
\begin{gathered}
30 \times 40 \mathrm{~mm} \\
\text { legend } \\
\text { holders }
\end{gathered}
\]} & Black background & White & ZBY01002 \\
\hline & & Red background & White & ZBY01004 \\
\hline & & White background & Black & ZBY01001 \\
\hline & & Yellow background & Black & ZBY01005 \\
\hline \multirow[t]{4}{*}{\begin{tabular}{l}
\(18 \times 27 \mathrm{~mm}\) Custom Legend/Insert Only (Specify Engraving) 3 lines of 11 characters (including spaces) maximum per line \\
(Example: ZBY05002 marked "Robot")
\end{tabular}} & \multirow{4}{*}{\[
\begin{gathered}
30 \times 50 \mathrm{~mm} \\
\text { legend } \\
\text { holders }
\end{gathered}
\]} & Black background & White & ZBY05002 \\
\hline & & Red background & White & ZBY05004 \\
\hline & & White background & Black & ZBY05001 \\
\hline & & Yellow background & Black & ZBY05005 \\
\hline
\end{tabular}

XB4 Legend Sheets
Table 19.114: Sheets of Legends for Push Buttons, Switches, and Pilot Lights
\begin{tabular}{|c|c|c|c|}
\hline Description & Marking & Text & Catalog Number \\
\hline \multirow{11}{*}{Sheets of 66 circular peel-off transparent self-adhesive legends} & Blank & & ZBY1101 \\
\hline & \multirow{6}{*}{International} & 0 & ZBY1146 \\
\hline & & 1 & ZBY1147 \\
\hline & & II & ZBY1148 \\
\hline & & III & ZBY1149 \\
\hline & & STOP & ZBY1304 \\
\hline & & \(\rightarrow\) & ZBY1912 \\
\hline & \multirow{4}{*}{English} & HAND & ZBY1316 \\
\hline & & OFF & ZBY1312 \\
\hline & & ON & ZBY1311 \\
\hline & & START & ZBY1303 \\
\hline
\end{tabular}

XB4 Accessories
Table 19.115: Push Button Caps-Unmarked

\begin{tabular}{|c|c|c|c|}
\hline For use with & Type of Push & Color & Catalog Number \\
\hline \multirow{14}{*}{\begin{tabular}{l}
ZB4BA0 \\
push button heads
\end{tabular}} & \multirow{7}{*}{Flush} & White & ZBA1 \\
\hline & & Black & ZBA2 \\
\hline & & Green & ZBA3 \\
\hline & & Red & ZBA4 \\
\hline & & Yellow & ZBA5 \\
\hline & & Blue & ZBA6 \\
\hline & & 6 colors [31] & ZBA9 \\
\hline & \multirow{7}{*}{Extended} & White & ZBL1 \\
\hline & & Black & ZBL2 \\
\hline & & Green & ZBL3 \\
\hline & & Red & ZBL4 \\
\hline & & Yellow & ZBL5 \\
\hline & & Blue & ZBL6 \\
\hline & & 6 colors [31] & ZBL9 \\
\hline
\end{tabular}

Table 19.116: Push Button Caps—Marked
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{For use with} & \multirow[t]{2}{*}{Type of Push} & \multicolumn{2}{|l|}{Marking} & \multirow[t]{2}{*}{\[
\begin{aligned}
& \text { Cap } \\
& \text { Color }
\end{aligned}
\]} & \multirow[t]{2}{*}{\begin{tabular}{l}
Catalog \\
Number
\end{tabular}} \\
\hline & & Text [32] & Color & & \\
\hline \multirow{20}{*}{ZB4BA0 push button heads} & \multirow{20}{*}{Flush} & 1 [33] & White & Green & ZBA331 \\
\hline & & & Black & White & ZBA131 \\
\hline & & START [33] & White & Green & ZBA333 \\
\hline & & Start [3J] & Black & White & ZBA133 \\
\hline & & ON & White & Green & ZBA341 \\
\hline & & & Black & White & ZBA141 \\
\hline & & UP [33] & Black & White & ZBA343 \\
\hline & & DOWN [33] & White & Black & ZBA344 \\
\hline & & \[
\begin{aligned}
& \text { (1) } \\
& {[33]}
\end{aligned}
\] & White & Green & ZBA345 \\
\hline & & \[
\begin{aligned}
& \text { (1) } \\
& {[33]} \\
& \hline
\end{aligned}
\] & White & Black & ZBA245 \\
\hline & & 〈 & White & Green & ZBA346 \\
\hline & & & Black & White & \[
\begin{gathered}
\hline \text { ZBA334 } \\
{[34]}
\end{gathered}
\] \\
\hline & & 1 & White & Black & \[
\begin{gathered}
\text { ZBA335 } \\
{[34]}
\end{gathered}
\] \\
\hline & & O [33] & White & Red & ZBA432 \\
\hline & & & White & Black & ZBA232 \\
\hline & & STOP [33] & White & Red & ZBA434 \\
\hline & & & White & Black & ZBA234 \\
\hline & & OFF & White & Red & ZBA435 \\
\hline & & OFF & White & Black & ZBA235 \\
\hline & & R [34] & White & Blue & ZBA639 \\
\hline
\end{tabular}


ZBA7235 ZBA7331


ZBA7432


ZBA79


ZBZ3605

ZBZ160•



ZBZ1700


ZBZ1800


ZB4BZ6•


ZB4BZ011


DL1CE•••


DL1CF•••


Table 19.117: Multiple-head and XB5R Push Button Caps[35]
\begin{tabular}{|c|c|c|c|c|}
\hline For use with & Type of Push & Marking & Cap Color & Catalog Number \\
\hline \multirow{19}{*}{\begin{tabular}{l}
Double push button heads \\
Tripe push button heads \\
ZB4RZA0 \\
ZB5RZA0
\end{tabular}} & \multirow{19}{*}{Flush} & Unmarked & \multirow{4}{*}{White} & ZBA71 \\
\hline & & "I" black & & ZBA7131 \\
\hline & & \(\rightarrow\) black & & ZBA7134 \\
\hline & & "+" black & & ZBA7138 \\
\hline & & Unmarked & \multirow{5}{*}{Black} & ZBA72 \\
\hline & & "O" white & & ZBA7232 \\
\hline & & "+" white & & ZBA7233 \\
\hline & & \(\Rightarrow\) white & & ZBA7235 \\
\hline & & "I" white & & ZBA7237 \\
\hline & & Unmarked & \multirow{5}{*}{Green} & ZBA73 \\
\hline & & " l " white & & ZBA7331 \\
\hline & & "+" white & & ZBA7333 \\
\hline & & ¢ white & & ZBA7335 \\
\hline & & "Il" white & & ZBA7336 \\
\hline & & Unmarked & \multirow[t]{2}{*}{Red} & ZBA74 \\
\hline & & "O" white & & ZBA7432 \\
\hline & & Unmarked & Yellow & ZBA75 \\
\hline & & Unmarked & Blue & ZBA76 \\
\hline & & Assorted & 10 colors[36] & ZBA79 \\
\hline
\end{tabular}

Table 19.118: Accessories
\begin{tabular}{|c|c|c|c|}
\hline Description & Application & Color & Catalog Number \\
\hline ```
Padlocking kit
Conforming to EN/ISO }1385
[37]
(See legends below)
``` & \begin{tabular}{l}
For Emergency Stop function only, with the following \(\varnothing 40\) trigger-action push buttons: \\
XB4BT8• \\
XB4BS8• \\
XB4BS9• \\
ZB4BT8• \\
ZB4BS8• \\
ZB4BS9•
\end{tabular} & Yellow & ZBZ3605 \\
\hline \multirow{5}{*}{Metal guards Padlockable} & \multirow[t]{5}{*}{\begin{tabular}{l}
For Emergency Stop function only with the following \(\varnothing 40 \mathrm{~mm}\) trigger-action push buttons: \\
XB4BT8• \\
XB4BS8• \\
XB4BS9• \\
ZB4BT8• (except ZB5AT8643M) \\
ZB4BS8• \\
ZB4BS9•
\end{tabular}} & Chrome Plated & ZBZ1600 \\
\hline & & Black & ZBZ1602 \\
\hline & & Red & ZBZ1604 \\
\hline & & Yellow & ZBZ1605 \\
\hline & & Blue & ZBZ1606 \\
\hline Metal guard, padlockable & For Emergency Stop function with XB4 and XB5 E-Stop 30 mm and 40 mm operators & Chrome Plated & ZBZ1700 \\
\hline Metal guard & For XB4 illuminated push buttons & Chrome Plated & ZBZ1800 \\
\hline \multirow{3}{*}{Plastic guards[38]} & Round Guard for ZB4BS5430, 2.5" dia EMO Mushroom Operators & Yellow & ZB4BZ1905 \\
\hline & Narrow Flange Guard for ZB4BS5430 or ZB4BS84430 EMO Mushroom Operators[39] & Yellow & ZB4BZ2005 \\
\hline & Trigger Action Guard for ZB4BS84430, 3" dia EMO Mushroom Operators & Yellow & ZB4BZ2105 \\
\hline \multirow[t]{2}{*}{Padlockable flaps} & \multirow[t]{2}{*}{For push buttons} & Black & ZB4BZ62 \\
\hline & & Red & ZB4BZ64 \\
\hline Mounting kits For push buttons with flush mounting bezel head and 30 mm mounting hole & \begin{tabular}{l}
Metal flush mounting kit (PB and PL) \\
Metal flush mounting kit (SS and IPB) \\
Plastic flush mounting kit (PB and PL) \\
Plastic flush mounting kit (SS and IPB) \\
Plastic flush mounting kit for legend \(8 \times 27\) (PB \\
Plastic flush mounting kit for legend \(8 \times 27\) (SS \\
Plastic flush mounting kit for legend \(18 \times 27\) (PB \\
Plastic flush mounting kit for legend \(18 \times 27\) (SS
\end{tabular} & \begin{tabular}{l}
nd PL) \\
and IPB) \\
and PL) \\
and IPB)
\end{tabular} & ZB4BZ021
ZB4BZ022
ZB5AZ021
ZB5AZ022
ZB5AZ023
ZB5AZ024
ZB5AZ025
ZB5AZ026 \\
\hline Metal blanking plug, round chrome plated [40] & For \(\varnothing 22 \mathrm{~mm}\) control and signalling units & & ZB4SZ3 \\
\hline Plastic blanking plug, round black with mounting nut & For \(\varnothing 22 \mathrm{~mm}\) control and signalling units & & ZB5SZ3 \\
\hline Description & Marking & Color & Catalog Number \\
\hline \multirow[t]{2}{*}{Ø 60 mm Legend for padlocking device ZBZ3605} & Without & Yellow & ZBY9101T \\
\hline & EMERGENCY STOP & Yellow & ZBY9330T \\
\hline
\end{tabular}

Table 19.119: BA9s Bulbs and Associated Accessories
\begin{tabular}{l|l|c}
\multirow{3}{*}{\begin{tabular}{l} 
Description \\
Replacement bulbs \\
Inpe BA9s)
\end{tabular}} & Characteristics & Catalog Number \\
\cline { 2 - 3 } & \(6 \mathrm{~V}, 1.2 \mathrm{~W}\) & DL1CB006 \\
\cline { 2 - 3 } & \(12 \mathrm{~V}, 2 \mathrm{~W}\) & DL1CE012 \\
\cline { 2 - 3 } & \(24 \mathrm{~V}, 2 \mathrm{~W}\) & DL1CE024 \\
\cline { 2 - 3 } Neon bulbs & \(120-130 \mathrm{~V}, 2.4 \mathrm{~W}\) & DL1CE130 \\
\hline Bulb extractor & \(120-130 \mathrm{~V}, 1.8 \mathrm{~mA}\) & DL1CF110 \\
\cline { 2 - 3 } & \(230-240 \mathrm{~V}, 1,8 \mathrm{~mA}\) & DL1CF220 \\
\hline Lens cap tightening tool & - & ZBZ8 \\
\hline \begin{tabular}{l} 
Power driver bits for mounting and wiring \\
(package of 5)
\end{tabular} & Cross headed screw (POZIDRIV type 1) & ZB4BZ905 \\
\hline Mounting Adapter & For mounting 22 mm push button in 30 mm KO & ZBZ41 \\
\hline
\end{tabular}
[35] Sold in lots of 10.
[36] Set of 10 different caps: white, black, green, red, yellow, blue, white "I" on green background, black "I" on white background, white "O" on red background, white "O" on black background.
[37] Standard circular legends are not compatible with this product. Use special legends ZBY••T listed above.
[38] For additional information, refer to publication 9001DB0601R6/06.
[39] Maximum panel thickness is 2.5 mm .
[40] Requires a ZB4BZ009 body/mounting collar for mounting, see XB4 Electrical Components, page 19-35.

Table 19.120: Bellows Seals for Harsh Environments (IP 69K) [41]
\begin{tabular}{|c|c|c|c|c|}
\hline Description & For use with & Color \& Material & Sold in Lots of & Catalog Number \\
\hline \multirow[b]{3}{*}{Bellows seals for harsh environments (Humidity, dust, high-pressure cleaning)} & \multirow[t]{3}{*}{Any Harmony XB4 metal, mushroom head push button \(\varnothing 40 \mathrm{~mm}\) or \(\varnothing 60 \mathrm{~mm}\) (except ZB4BR•16)} & Red Silicone & 2 & ZBZ48 \\
\hline & & Black EPDM & 2 & ZBZ28 \\
\hline & & \begin{tabular}{l}
Yellow \\
EPDM
\end{tabular} & 2 & ZBZ58 \\
\hline
\end{tabular}

Table 19.121: Boot for Standard Selector Switch Handle
\begin{tabular}{|l|l|c|}
\hline Description & For use with & Catalog Number \\
\hline Boot for standard handle & ZB4BD•• & ZBD D2 \\
\hline
\end{tabular}

Table 19.122: Replacement Keys
\begin{tabular}{|c|c|c|}
\hline Description & Key Number & Catalog Number \\
\hline \multirow{5}{*}{Set of 2 keys} & 455 & ZBG455 \\
\hline & 421E & ZBG421E \\
\hline & 458A & ZBG458A \\
\hline & 520E & ZBG520E \\
\hline & 3131A & ZBG3131A \\
\hline \multirow{5}{*}{Set of 2 keys, One of which is supplied booted (rubber boot)} & 455 & ZBG455P \\
\hline & 421E & ZBG421EP \\
\hline & 458A & ZBG458AP \\
\hline & 520E & ZBG520EP \\
\hline & 3131A & ZBG3131AP \\
\hline
\end{tabular}

Table 19.123: Clear Boots
\begin{tabular}{|c|c|c|c|}
\hline Description & For use with & Material & Catalog Number \\
\hline \multirow[b]{2}{*}{Single boots} & Booted push buttons with circular head & \multirow{5}{*}{Silicone} & ZBPA \\
\hline & Booted push buttons with circular head used in food industry applications & & ZBP0A \\
\hline \multirow[b]{2}{*}{Double boots} & Double-headed push buttons, two flush & & ZBA708 \\
\hline & Double-headed push buttons, one flush + one projecting & & ZBA710 \\
\hline Triple boot & Triple-headed push buttons, two flush + one projecting & & ZBA709 \\
\hline
\end{tabular}

Table 19.124: Lens Caps
\begin{tabular}{|c|c|c|}
\hline For use with & Color & Catalog Number \\
\hline \multicolumn{3}{|l|}{Lens caps for Protected LED \({ }^{\text {TM }}\) light modules} \\
\hline \multirow{5}{*}{Pilot lights} & White & ZBV0113 \\
\hline & Green & ZBV0133 \\
\hline & Red & ZBV0143 \\
\hline & Yellow & ZBV0153 \\
\hline & Blue & ZBV0163 \\
\hline \multirow{5}{*}{Illuminated push buttons with flush push} & White & ZBW9113 \\
\hline & Green & ZBW9133 \\
\hline & Red & ZBW9143 \\
\hline & Yellow & ZBW9153 \\
\hline & Blue & ZBW9163 \\
\hline \multirow{5}{*}{Illuminated push buttons with extended push} & White & ZBW9313 \\
\hline & Green & ZBW9333 \\
\hline & Red & ZBW9343 \\
\hline & Yellow & ZBW9353 \\
\hline & Blue & ZBW9363 \\
\hline \multicolumn{3}{|l|}{Lens caps for BA9 light modules} \\
\hline \multirow{6}{*}{Pilot lights} & White & ZBV011 \\
\hline & Green & ZBV013 \\
\hline & Red & ZBV014 \\
\hline & Yellow & ZBV015 \\
\hline & Blue & ZBV016 \\
\hline & Clear & ZBV017 \\
\hline \multirow{6}{*}{Illuminated push buttons with flush push} & White & ZBW911 \\
\hline & Green & ZBW913 \\
\hline & Red & ZBW914 \\
\hline & Yellow & ZBW915 \\
\hline & Blue & ZBW916 \\
\hline & Clear & ZBW917 \\
\hline \multirow{6}{*}{Illuminated push buttons with extended push} & White & ZBW931 \\
\hline & Green & ZBW933 \\
\hline & Red & ZBW934 \\
\hline & Yellow & ZBW935 \\
\hline & Blue & ZBW936 \\
\hline & Clear & ZBW937 \\
\hline
\end{tabular}

\section*{XB5 Complete Devices}

Table 19.125: Non-Illuminated Push Buttons, Momentary (screw clamp terminal
connections)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of Head} & \multirow[t]{2}{*}{Type of Push} & \multicolumn{2}{|l|}{Type of Contact} & \multirow[t]{2}{*}{Marking} & \multirow[t]{2}{*}{\[
\begin{aligned}
& \text { Cap } \\
& \text { Color }
\end{aligned}
\]} & \multirow[t]{2}{*}{Catalog Number} & \multirow[t]{2}{*}{Components} \\
\hline & & N.O. & N.C. & & & & \\
\hline \multirow{10}{*}{} & \multirow{10}{*}{Flush} & \multirow{4}{*}{1} & \multirow{4}{*}{-} & \multirow{4}{*}{-} & Black & XB5AA21 & (ZB5AZ101 + ZB5AA2) \\
\hline & & & & & Green & XB5AA31 & (ZB5AZ101 + ZB5AA3) \\
\hline & & & & & Yellow & XB5AA51 & (ZB5AZ101 + ZB5AA5) \\
\hline & & & & & Blue & XB5AA61 & (ZB5AZ101 + ZB5AA6) \\
\hline & & - & 1 & - & Red & XB5AA42 & (ZB5AZ102 + ZB5AA4) \\
\hline & & \multirow{5}{*}{1} & \multirow[t]{5}{*}{1} & \multirow{5}{*}{-} & Black & XB5AA25 & (ZB5AZ105 + ZB5AA2) \\
\hline & & & & & Green & XB5AA35 & (ZB5AZ105 + ZB5AA3) \\
\hline & & & & & Red & XB5AA45 & (ZB5AZ105 + ZB5AA4) \\
\hline & & & & & Yellow & XB5AA55 & (ZB5AZ105 + ZB5AA5) \\
\hline & & & & & Blue & XB5AA65 & (ZB5AZ105 + ZB5AA6) \\
\hline 1) & Flush & 1 & - & \[
\begin{gathered}
\text { "l" } \\
\text { (white) }
\end{gathered}
\] & Green & XB5AA3311 & \[
\begin{aligned}
& \text { (ZB5AZ101 + } \\
& \text { ZB5AA331) }
\end{aligned}
\] \\
\hline © & Flush & - & 1 & \[
\begin{gathered}
\text { "O" } \\
\text { (white) }
\end{gathered}
\] & Red & XB5AA4322 & \[
\begin{aligned}
& \text { (ZB5AZ102 + } \\
& \text { ZB5AA432 }
\end{aligned}
\] \\
\hline \multirow{5}{*}{(} & \multirow[t]{5}{*}{Flush with clear silicone boot (color of pusher unobscured)} & \multirow{4}{*}{1} & \multirow{4}{*}{-} & \multirow{4}{*}{-} & Black & XB5AP21 & (ZB5AZ101 + ZB5AP2) \\
\hline & & & & & Green & XB5AP31 & (ZB5AZ101 + ZB5AP3) \\
\hline & & & & & Yellow & XB5AP51 & (ZB5AZ101 + ZB5AP5) \\
\hline & & & & & Blue & XB5AP61 & (ZB5AZ101 + ZB5AP6) \\
\hline & & - & 1 & - & Red & XB5AP42 & (ZB5AZ102 + ZB5AP4) \\
\hline \multirow[t]{2}{*}{} & \multirow[b]{2}{*}{Extended} & - & 1 & - & Red & XB5AL42 & (ZB5AZ102 + ZB5AL4) \\
\hline & & 1 & 1 & - & Red & XB5AL45 & (ZB5AZ105 + ZB5AL4) \\
\hline  & Mushroom head \(\varnothing 40 \mathrm{~mm}\) & 1 & - & - & Black & XB5AC21 & (ZB5AZ101 + ZB5AC2) \\
\hline
\end{tabular}

Table 19.126: Two Button Push Buttons, Momentary (screw clamp terminal connections)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of Head} & \multirow[t]{2}{*}{Type of Push} & \multicolumn{2}{|l|}{Type of Contact} & \multirow[b]{2}{*}{Marking} & \multirow[t]{2}{*}{Degree of Protection} & \multirow[t]{2}{*}{\begin{tabular}{l}
Catalog \\
Number
\end{tabular}} & \multirow[b]{2}{*}{Components} \\
\hline & & N.O. & N.C. & & & & \\
\hline  & One flush green push* One extended red push** & 1 & 1 & \begin{tabular}{l}
*" " \\
(white) \\
**"O" \\
(white)
\end{tabular} & \[
\begin{aligned}
& \text { IP66 } \\
& \text { IP69K }
\end{aligned}
\] & XB5AL73415 & \[
\begin{aligned}
& \text { (ZB5AZ105 + } \\
& \text { ZB5AL7341) }
\end{aligned}
\] \\
\hline
\end{tabular}

Table 19.127: Two Button Push Buttons, Momentary + one white central pilot light (screw clamp terminal connections)


Table 19.128: Three Button Push Buttons, Momentary (screw clamp terminal connections)
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of Head} & \multirow[t]{2}{*}{Type of Push} & \multicolumn{2}{|l|}{Type of Contact} & \multirow[t]{2}{*}{Degree of Protection} & \multirow[b]{2}{*}{Marking and Cap Color} & \multirow[b]{2}{*}{Catalog Number} \\
\hline & & N.O. & N.C. & & & \\
\hline \multirow[t]{2}{*}{} & \multirow[t]{2}{*}{\begin{tabular}{l}
Two flush pushes \\
+ one central projecting red push*
\end{tabular}} & \multirow[b]{2}{*}{2} & \multirow[b]{2}{*}{1} & \multirow[b]{2}{*}{\[
\begin{aligned}
& \text { IP66 } \\
& \text { IP69K }
\end{aligned}
\]} & \begin{tabular}{l}
White "I" on green background \\
White "Il" on green background \\
*White "Stop" on red background
\end{tabular} & XB5AA731327 \\
\hline & & & & & Black " \(\rightarrow\) " on white background White " \(<\) " on black background *White "Stop" on red background & XB5AA711237 \\
\hline
\end{tabular}

\footnotetext{
For Legends, see XB5 Legend Holders, page 19-58 and XB5 Legend Inserts, page 19-59.
Caps, see XB5 Accessories, page 19-60.
Caps, see XB5 Accessories, page 19-60.
}


XB5AC21


XB5AW73731•5



XB5AS 40 mm KR


XB5AS 40 mm TR


XB5AT 40 mm PP


XB5AD33


XB5AG33

Table 19.129: Non-Illuminated Trigger Action Emergency Stop Push Buttons, Ø 40 mm (Red) (screw clamp terminal connections)
\begin{tabular}{l|l|l|l|l|l|l} 
Shape of \\
Head
\end{tabular} Type of Push

Table 19.130: Non-Illuminated Selector Switches and Key Switches (screw clamp terminal connections) [43]
\begin{tabular}{c|c|c|c|c|c|c|l|l}
\begin{tabular}{c} 
Shape of \\
Head
\end{tabular} & \begin{tabular}{c} 
Type of \\
Operator
\end{tabular} & \multicolumn{2}{c|}{\begin{tabular}{c} 
Type of \\
Contact \\
N.O.
\end{tabular}} & \multicolumn{2}{c}{\begin{tabular}{c} 
Number and Type of \\
Positions
\end{tabular}} & \begin{tabular}{c} 
Catalog \\
Number
\end{tabular} & Components
\end{tabular}

NOTE: The symbol 8 indicates key withdrawal position(s).
For Legends, see XB5 Legend Holders, page 19-58 and XB5 Legend Inserts Only, page 19-59


For legends, see XB5 Legend Holders, page 19-58 and XB5 Legend Inserts Only, page 19-59
For LEDs, see LED, BA9s Base, page 19-129.

Table 19.131: Pilot Lights with Protected LED \({ }^{\text {TM }}\) (screw clamp termina connections) [44]
\begin{tabular}{|c|c|c|c|c|c|}
\hline Shape of Head & Supply Voltage & Color & Monolithic Units & Complete Units & Complete Unit Components \\
\hline \multirow{18}{*}{} & \multirow{6}{*}{\(24 \mathrm{Vac} / \mathrm{Vdc}\)} & White & XB5EVB1 & XB5AVB1 & (ZB5AVB1 + ZB5AV013) \\
\hline & & Green & XB5EVB3 & XB5AVB3 & (ZB5AVB3 + ZB5AV033) \\
\hline & & Red & XB5EVB4 & XB5AVB4 & (ZB5AVB4 + ZB5AV043) \\
\hline & & Orange & XB5EVB5 & XB5AVB5 & (ZB5AVB5 + ZB5AV053) \\
\hline & & Blue & XB5EVB6 & XB5AVB6 & (ZB5AVB6 + ZB5AV063) \\
\hline & & Yellow & XB5EVB8 & - & - \\
\hline & \multirow{6}{*}{110-120 Vac} & White & XB5EVG1 & XB5AVG1 & (ZB5AVG1 + ZB5AV013) \\
\hline & & Green & XB5EVG3 & XB5AVG3 & (ZB5AVG3 + ZB5AV033) \\
\hline & & Red & XB5EVG4 & XB5AVG4 & (ZB5AVG4 + ZB5AV043) \\
\hline & & Orange & XB5EVG5 & XB5AVG5 & (ZB5AVG5 + ZB5AV053) \\
\hline & & Blue & XB5EVG6 & XB5AVG6 & (ZB5AVG6 + ZB5AV063) \\
\hline & & Yellow & XB5EVG8 & - & - \\
\hline & \multirow{6}{*}{230-240 Vac} & White & XB5EVM1 & XB5AVM1 & (ZB5AVM1 + ZB5AV013) \\
\hline & & Green & XB5EVM3 & XB5AVM3 & (ZB5AVM3 + ZB5AV033) \\
\hline & & Red & XB5EVM4 & XB5AVM4 & (ZB5AVM4 + ZB5AV043) \\
\hline & & Orange & XB5EVM5 & XB5AVM5 & (ZB5AVM5 + ZB5AV053) \\
\hline & & Blue & XB5EVM6 & XB5AVM6 & (ZB5AVM6 + ZB5AV063) \\
\hline & & Yellow & XB5EVM8 & - & - \\
\hline
\end{tabular}

Table 19.132: Pilot Lights for BA9s Bulb (screw clamp terminal connections)
\begin{tabular}{|c|c|c|c|c|}
\hline Shape of Head & Supply Voltage & Color & Catalog Number & Components \\
\hline \multicolumn{5}{|l|}{Direct supply, for BA9s (incandescent, LED, neon) V < \(250 \mathrm{~V}, \mathbf{2 . 4} \mathbf{~ W ~ b u l b ~ ( b u l b ~ n o t ~ i n c l u d e d ) ~ [ 4 5 ] ~}\)} \\
\hline \multirow[b]{4}{*}{} & \multirow{4}{*}{\[
\begin{gathered}
250 \mathrm{Vac} / \\
\text { Vdc }
\end{gathered}
\]} & White & XB5AV61 & (ZB5AV6 + ZB5AV01) \\
\hline & & Green & XB5AV63 & (ZB5AV6 + ZB5AV03) \\
\hline & & Red & XB5AV64 & (ZB5AV6 + ZB5AV04) \\
\hline & & Yellow & XB5AV65 & (ZB5AV6 + ZB5AV05) \\
\hline \multicolumn{5}{|l|}{Transformer type with 1.2 VA, 6 V secondary. BA9s incandescent bulb included} \\
\hline \multirow[b]{4}{*}{} & \multirow{4}{*}{\[
\begin{gathered}
110-120 \\
\mathrm{Vac} \\
50 / 60 \mathrm{~Hz}
\end{gathered}
\]} & White & XB5AV31 & (ZB5AV3 + ZB5AV01) \\
\hline & & Green & XB5AV33 & (ZB5AV3 + ZB5AV03) \\
\hline & & Red & XB5AV34 & (ZB5AV3 + ZB5AV04) \\
\hline & & Yellow & XB5AV35 & (ZB5AV3 + ZB5AV05) \\
\hline
\end{tabular}

Table 19.133: Illuminated Push Buttons, Momentary (screw clamp terminal connections) [44]
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of Head} & \multirow[t]{2}{*}{Description} & \multicolumn{2}{|l|}{Type of Contact} & \multirow[t]{2}{*}{Supply Voltage} & \multirow[t]{2}{*}{Color of Push} & \multirow[t]{2}{*}{Catalog Number} & \multirow[t]{2}{*}{Components} \\
\hline & & N.O. & N.C. & & & & \\
\hline \multicolumn{8}{|l|}{Flush} \\
\hline \multirow{10}{*}{} & \multirow{10}{*}{} & \multirow{10}{*}{1} & \multirow{10}{*}{1} & \multirow{5}{*}{\(24 \mathrm{Vac} /\) Vdc} & White & XB5AW31B5 & (ZB5AW0B15 + ZB5AW313) \\
\hline & & & & & Green & XB5AW33B5 & (ZB5AW0B35 + ZB5AW333) \\
\hline & & & & & Red & XB5AW34B5 & (ZB5AW0B45 + ZB5AW343) \\
\hline & & & & & Yellow & XB5AW35B5 & (ZB5AW0B55 + ZB5AW353) \\
\hline & & & & & Blue & XB5AW36B5 & (ZB5AW0B65 + ZB5AW363) \\
\hline & & & & \multirow{5}{*}{\[
\begin{gathered}
110-120 \\
\text { Vac }
\end{gathered}
\]} & White & XB5AW31G5 & (ZB5AW0G15 + ZB5AW313) \\
\hline & & & & & Green & XB5AW33G5 & (ZB5AW0G35 + ZB5AW333) \\
\hline & & & & & Red & XB5AW34G5 & (ZB5AW0G45 + ZB5AW343) \\
\hline & & & & & Yellow & XB5AW35G5 & (ZB5AW0G55 + ZB5AW353) \\
\hline & & & & & Blue & XB5AW36G5 & (ZB5AW0G65 + ZB5AW363) \\
\hline \multirow{4}{*}{} & \multirow[t]{4}{*}{Direct supply for BA9s 2.4 W max. bulb not included} & \multirow{4}{*}{1} & \multirow{4}{*}{1} & \multirow{4}{*}{\[
\begin{gathered}
<250 \\
\mathrm{Vac} / \mathrm{Vdc}
\end{gathered}
\]} & White & XB5AW3165 & (ZB5AW065 + ZB5AW31) \\
\hline & & & & & Green & XB5AW3365 & (ZB5AW065 + ZB5AW33) \\
\hline & & & & & Red & XB5AW3465 & (ZB5AW065 + ZB5AW34) \\
\hline & & & & & Yellow & XB5AW3565 & (ZB5AW065 + ZB5AW35) \\
\hline \multirow{8}{*}{} & \multirow{8}{*}{Transformer type 1.2 VA, 6 V secondary. BA9s incandescent bulb included} & \multirow{8}{*}{1} & \multirow{8}{*}{1} & \multirow{4}{*}{\[
\begin{gathered}
110-120 \\
\mathrm{Vac} \\
50 / 60 \mathrm{~Hz}
\end{gathered}
\]} & White & XB5AW3135 & (ZB5AW035 + ZB5AW31) \\
\hline & & & & & Green & XB5AW3335 & (ZB5AW035 + ZB5AW33) \\
\hline & & & & & Red & XB5AW3435 & (ZB5AW035 + ZB5AW34) \\
\hline & & & & & Yellow & XB5AW3535 & (ZB5AW035 + ZB5AW35) \\
\hline & & & & \multirow{4}{*}{\[
\begin{gathered}
230-240 \\
\mathrm{Vac} \\
50 / 60 \mathrm{~Hz}
\end{gathered}
\]} & White & XB5AW3145 & (ZB5AW045 + ZB5AW31) \\
\hline & & & & & Green & XB5AW3345 & (ZB5AW045 + ZB5AW33) \\
\hline & & & & & Red & XB5AW3445 & (ZB5AW045 + ZB5AW34) \\
\hline & & & & & Yellow & XB5AW3545 & (ZB5AW045 + ZB5AW35) \\
\hline \multicolumn{8}{|l|}{Extended} \\
\hline \multirow[t]{10}{*}{} & \multirow{10}{*}{} & \multirow{10}{*}{1} & \multirow{10}{*}{1} & \multirow{5}{*}{\(24 \mathrm{Vac} /\) Vdc} & White & XB5AW11B5 & (ZB5AW0B15 + ZB5AW113) \\
\hline & & & & & Green & XB5AW13B5 & (ZB5AW0B35 + ZB5AW133) \\
\hline & & & & & Red & XB5AW14B5 & (ZB5AW0B45 + ZB5AW143) \\
\hline & & & & & Yellow & XB5AW15B5 & (ZB5AW0B55 + ZB5AW153) \\
\hline & & & & & Blue & XB5AW16B5 & (ZB5AW0B65 + ZB5AW163) \\
\hline & & & & \multirow{5}{*}{\[
\begin{gathered}
110-120 \\
\text { Vac }
\end{gathered}
\]} & White & XB5AW11G5 & (ZB5AW0G15 + ZB5AW113) \\
\hline & & & & & Green & XB5AW13G5 & (ZB5AW0G35 + ZB5AW133) \\
\hline & & & & & Red & XB5AW14G5 & (ZB5AW0G45 + ZB5AW143) \\
\hline & & & & & Yellow & XB5AW15G5 & (ZB5AW0G55 + ZB5AW153) \\
\hline & & & & & Blue & XB5AW16G5 & (ZB5AW0G65 + ZB5AW163) \\
\hline
\end{tabular}
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Table 19.134: Non-Illuminated Operators, Momentary—Unmarked
\begin{tabular}{|c|c|c|c|}
\hline Shape of Head & Type of Push & Cap Color & Catalog Number \\
\hline & Flush, without color cap [46] & - & ZB5AA0 \\
\hline & Flush, with set of 6 color caps & 6 colors [47] & ZB5AA9 \\
\hline \multirow{7}{*}{} & \multirow{7}{*}{Flush} & White & ZB5AA1 \\
\hline & & Black & ZB5AA2 \\
\hline & & Green & ZB5AA3 \\
\hline & & Red & ZB5AA4 \\
\hline & & Yellow & ZB5AA5 \\
\hline & & Blue & ZB5AA6 \\
\hline & & Gray & ZB5AA8 \\
\hline \multirow{5}{*}{} & \multirow{5}{*}{Flush with transparent cap, for insertion of legend [48]} & White & ZB5AA18 \\
\hline & & Green & ZB5AA38 \\
\hline & & Red & ZB5AA48 \\
\hline & & Yellow & ZB5AA58 \\
\hline & & Blue & ZB5AA68 \\
\hline & \multirow{6}{*}{Extended} & White & ZB5AL1 \\
\hline & & Black & ZB5AL2 \\
\hline & & Green & ZB5AL3 \\
\hline & & Red & ZB5AL4 \\
\hline & & Yellow & ZB5AL5 \\
\hline & & Blue & ZB5AL6 \\
\hline \multirow{6}{*}{} & \multirow{6}{*}{Booted Flush (clear) Cap color unobscured} & White & ZB5APA1 \\
\hline & & Black & ZB5APA2 \\
\hline & & Green & ZB5APA3 \\
\hline & & Red & ZB5APA4 \\
\hline & & Yellow & ZB5APA5 \\
\hline & & Blue & ZB5APA6 \\
\hline \multirow{6}{*}{} & \multirow{6}{*}{\begin{tabular}{l}
Booted Extended (clear) \\
Cap color unobscured
\end{tabular}} & White & ZB5AP1 \\
\hline & & Black & ZB5AP2 \\
\hline & & Green & ZB5AP3 \\
\hline & & Red & ZB5AP4 \\
\hline & & Yellow & ZB5AP5 \\
\hline & & Blue & ZB5AP6 \\
\hline \multirow{6}{*}{} & \multirow{6}{*}{Booted (colored) Cap color unobscured} & White & ZB5AP1S \\
\hline & & Black & ZB5AP2S \\
\hline & & Green & ZB5AP3S \\
\hline & & Red & ZB5AP4S \\
\hline & & Yellow & ZB5AP5S \\
\hline & & Blue & ZB5AP6S \\
\hline \multirow{5}{*}{} & \multirow{5}{*}{\begin{tabular}{l}
Booted (clear) \\
for insertion of legend [48] Cap color unobscured
\end{tabular}} & White & ZB5AP18 \\
\hline & & Green & ZB5AP38 \\
\hline & & Red & ZB5AP48 \\
\hline & & Yellow & ZB5AP58 \\
\hline & & Blue & ZB5AP68 \\
\hline \multirow{6}{*}{} & \multirow{6}{*}{Flush Plunger (with high guard)} & White & ZB5AA14 \\
\hline & & Black & ZB5AA24 \\
\hline & & Green & ZB5AA34 \\
\hline & & Red & ZB5AA44 \\
\hline & & Yellow & ZB5AA54 \\
\hline & & Blue & ZB5AA64 \\
\hline \multirow{6}{*}{} & \multirow{6}{*}{Flush} & White & ZB5CA1 \\
\hline & & Black & ZB5CA2 \\
\hline & & Green & ZB5CA3 \\
\hline & & Red & ZB5CA4 \\
\hline & & Yellow & ZB5CA5 \\
\hline & & Blue & ZB5CA6 \\
\hline \multirow{6}{*}{} & \multirow{6}{*}{Extended} & White & ZB5CL1 \\
\hline & & Black & ZB5CL2 \\
\hline & & Green & ZB5CL3 \\
\hline & & Red & ZB5CL4 \\
\hline & & Yellow & ZB5CL5 \\
\hline & & Blue & ZB5CL6 \\
\hline \multirow{6}{*}{} & \multirow{6}{*}{Heads only Recessed (high guard)} & White & ZB5AA16 \\
\hline & & Black & ZB5AA26 \\
\hline & & Green & ZB5AA36 \\
\hline & & Red & ZB5AA46 \\
\hline & & Yellow & ZB5AA56 \\
\hline & & Blue & ZB5AA66 \\
\hline \multirow{6}{*}{} & \multirow{6}{*}{Heads only Recessed (high guard)} & White & ZB5CA16 \\
\hline & & Black & ZB5CA26 \\
\hline & & Green & ZB5CA36 \\
\hline & & Red & ZB5CA46 \\
\hline & & Yellow & ZB5CA56 \\
\hline & & Blue & ZB5CA66 \\
\hline
\end{tabular}

For Legends, see XB5 Legend Holders, page 19-58 and XB5 Legend Inserts Only, page 19-59


Table 19.135: Non-Illuminated Operators, Momentary—Premarked
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of Head} & \multirow[t]{2}{*}{Type of Push} & \multicolumn{2}{|c|}{Marking} & \multirow[t]{2}{*}{Cap Color} & \multirow[t]{2}{*}{Catalog Number} \\
\hline & & Text & Color & & \\
\hline \multirow{17}{*}{} & \multirow{17}{*}{Flush} & \multirow[b]{2}{*}{I} & White & Green & ZB5AA331 \\
\hline & & & Black & White & ZB5AA131 \\
\hline & & \multirow[t]{2}{*}{START} & White & Green & ZB5AA333 \\
\hline & & & Black & White & ZB5AA133 \\
\hline & & \multirow[t]{2}{*}{ON} & White & Green & ZB5AA341 \\
\hline & & & Black & White & ZB5AA141 \\
\hline & & T & White & Green & ZB5AA345 \\
\hline & & \multirow[t]{2}{*}{O} & \multirow[t]{2}{*}{White} & Red & ZB5AA432 \\
\hline & & & & Black & ZB5AA232 \\
\hline & & \multirow[t]{2}{*}{STOP} & \multirow[t]{2}{*}{White} & Red & ZB5AA434 \\
\hline & & & & Black & ZB5AA234 \\
\hline & & \multirow[b]{2}{*}{OFF} & \multirow[b]{2}{*}{White} & Red & ZB5AA435 \\
\hline & & & & Black & ZB5AA235 \\
\hline & & UP & Black & White & ZB5AA343 \\
\hline & & DOWN & White & Black & ZB5AA344 \\
\hline & & \multirow[t]{2}{*}{\(\dagger_{\text {[49] }}\)} & Black & White & ZB5AA334 \\
\hline & & & White & Black & ZB5AA335 \\
\hline \multirow{6}{*}{} & \multirow{6}{*}{Extended} & \multirow[t]{2}{*}{O} & \multirow[t]{2}{*}{White} & Red & ZB5AL432 \\
\hline & & & & Black & ZB5AL232 \\
\hline & & \multirow[b]{2}{*}{STOP} & \multirow[b]{2}{*}{White} & Red & ZB5AL434 \\
\hline & & & & Black & ZB5AL234 \\
\hline & & \multirow[t]{2}{*}{OFF} & \multirow[t]{2}{*}{White} & Red & ZB5AL435 \\
\hline & & & & Black & ZB5AL235 \\
\hline & \multirow[b]{2}{*}{Flush} & 1 & White & Green & ZB5CA331 \\
\hline  & & 0 & White & Red & ZB5CA432 \\
\hline
\end{tabular}

Table 19.136: Mushroom Heads, Momentary

\begin{tabular}{|c|c|c|c|}
\hline Shape of Head & Diameter of Head & Color of Head & Catalog Number \\
\hline \multirow{15}{*}{} & \multirow{5}{*}{30 mm} & Black & ZB5AC24 \\
\hline & & Green & ZB5AC34 \\
\hline & & Red & ZB5AC44 \\
\hline & & Yellow & ZB5AC54 \\
\hline & & Blue & ZB5AC64 \\
\hline & \multirow{5}{*}{40 mm} & Black & ZB5AC2 \\
\hline & & Green & ZB5AC3 \\
\hline & & Red & ZB5AC4 \\
\hline & & Yellow & ZB5AC5 \\
\hline & & Blue & ZB5AC6 \\
\hline & \multirow{5}{*}{60 mm} & Black & ZB5AR2 \\
\hline & & Green & ZB5AR3 \\
\hline & & Red & ZB5AR4 \\
\hline & & Yellow & ZB5AR5 \\
\hline & & Blue & ZB5AR6 \\
\hline
\end{tabular}

\footnotetext{
For legends, see XB5 Legend Holders, page 19-58 and XB5 Legend Inserts Only, page 19-59
}
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ZB5AH04




Table 19.137: Non-Illuminated Push-on/Push-off Operators
\begin{tabular}{|c|c|c|c|}
\hline Shape of Head & Type of Push & Color of Push & Catalog Number \\
\hline & & White & ZB5AH01 \\
\hline & & Black & ZB5AH02 \\
\hline & Flush & Green & ZB5AH03 \\
\hline & ush & Red & ZB5AH04 \\
\hline & & Yellow & ZB5AH05 \\
\hline & & Blue & ZB5AH06 \\
\hline & & White & ZB5AH1 \\
\hline & & Black & ZB5AH2 \\
\hline & Extended & Green & ZB5AH3 \\
\hline & Extended & Red & ZB5AH4 \\
\hline & & Yellow & ZB5AH5 \\
\hline & & Blue & ZB5AH6 \\
\hline & & White & ZB5CH01 \\
\hline & & Black & ZB5CH02 \\
\hline & Flush & Green & ZB5CH03 \\
\hline & Flush & Red & ZB5CH04 \\
\hline & & Yellow & ZB5CH05 \\
\hline & & Blue & ZB5CH06 \\
\hline
\end{tabular}

Table 19.138: Two Head Operators, Momentary
\begin{tabular}{|c|c|c|c|c|c|}
\hline Shape of Head & Description & Marking & Cap Color & Degree of Protection & \begin{tabular}{l}
Catalog \\
Number
\end{tabular} \\
\hline \multicolumn{6}{|l|}{No Marking} \\
\hline & \multirow[b]{2}{*}{Two flush} & - & Green Red & \multirow{3}{*}{\[
\begin{aligned}
& \text { IP66 } \\
& \text { IP69K }
\end{aligned}
\]} & ZB5AA7340 \\
\hline & & - & White Black & & ZB5AA7120 \\
\hline & One flush One extended & - & Green Red & & ZB5AL7340 \\
\hline \multicolumn{6}{|l|}{Premarked} \\
\hline  & \multirow[b]{2}{*}{Two flush} & \[
\begin{aligned}
& \text { "I" (white) } \\
& \text { "O"(white) }
\end{aligned}
\] & Green Red & \multirow{3}{*}{\[
\begin{aligned}
& \text { IP66 } \\
& \text { IP69K }
\end{aligned}
\]} & ZB5AA7341 \\
\hline \[
0
\] & & "I"(black) & White Black & & ZB5AA7121 \\
\hline & One flush One extended & \begin{tabular}{l}
"I" (white) \\
"O" (white)
\end{tabular} & Green Red & & ZB5AL7341 \\
\hline \multicolumn{6}{|l|}{Without caps} \\
\hline \[
\begin{array}{|l|}
(\sqrt{ } \\
\hline(1) \\
\hline
\end{array}
\] & Two flush without caps & - & - & \[
\begin{aligned}
& \text { IP66 } \\
& \text { IP69K }
\end{aligned}
\] & ZB5AA79 \\
\hline
\end{tabular}

Table 19.139: Three Head Operators, Momentary
\begin{tabular}{|c|c|c|c|c|c|}
\hline Shape of Head & Description & Marking & Cap Color & Degree of Protection & \begin{tabular}{l}
Catalog \\
Number
\end{tabular} \\
\hline \multicolumn{6}{|l|}{Premarked} \\
\hline \multirow{8}{*}{Two flush + one central projecting red push marked "Stop"} & \multirow{8}{*}{Two flush} & \begin{tabular}{l}
"I" (white) \\
"II" (white)
\end{tabular} & Green Green & \multirow{8}{*}{\[
\begin{aligned}
& \text { IP66 } \\
& \text { IP69K }
\end{aligned}
\]} & ZB5AA73132 \\
\hline & & \begin{tabular}{l}
" \(\leftarrow\) " (white) \\
" \(\rightarrow\) " (white)
\end{tabular} & Green Green & & ZB5AA73133 \\
\hline & & " " \(\mathrm{\downarrow}\) " (white) & Green Green & & ZB5AA73134 \\
\hline & & "+" (white)
"-" (white) & Green Green & & ZB5AA73135 \\
\hline & & \[
\begin{aligned}
& \text { "+" (black) } \\
& \text { "-" (black) } \\
& \hline
\end{aligned}
\] & White White & & ZB5AA71115 \\
\hline & & \begin{tabular}{l}
"-" (black) \\
" \(\rightarrow\) " (white)
\end{tabular} & White Black & & ZB5AA71123 \\
\hline & & "千" (black) & White Black & & ZB5AA71124 \\
\hline & & " 1 " (white)
" \(\downarrow\) " (white) & Black Black & & ZB5AA72124 \\
\hline \multicolumn{6}{|l|}{Without caps} \\
\hline & Two flush without caps & - & - & \[
\begin{gathered}
\text { IP66 } \\
\text { IP69K } \\
\hline
\end{gathered}
\] & ZB5AA791 \\
\hline
\end{tabular}

For caps, see XB5 Accessories, page 19-60


ZB5AC 30 mm


ZB5AS 60 mm

XB5 Emergency Stop Operators
Table 19.140: Mushroom Heads for Maintained Push Buttons
\begin{tabular}{|c|c|c|c|c|}
\hline Shape of Head & Type of Push & Diameter of Head & Color & Catalog Number \\
\hline \multicolumn{5}{|l|}{For use in Emergency Stop applications} \\
\hline & \multirow[b]{3}{*}{Trigger action Push-pull [50]} & 30 mm & Red & ZB5AT844 \\
\hline & & 40 mm & Red & ZB5AT84 \\
\hline & & 60 mm & Red & ZB5AX84 \\
\hline & \multirow[b]{3}{*}{Trigger action Turn-to-release [50]} & 30 mm & Red & ZB5AS834 \\
\hline & & 40 mm & Red & ZB5AS844 \\
\hline & & 60 mm & Red & ZB5AS864 \\
\hline & \multirow[b]{3}{*}{Trigger action Key release (No. 455) [50]} & 30 mm & Red & ZB5AS934 \\
\hline & & 40 mm & Red & ZB5AS944 [51] \\
\hline & & 60 mm & Red & ZB5AS964 \\
\hline \multicolumn{5}{|l|}{For use in non-Emergency Stop applications} \\
\hline \multirow[t]{3}{*}{} & \multirow{3}{*}{Push-pull} & 30 mm & Black & ZB5AT24 \\
\hline & & 40 mm & Black & ZB5AT2 \\
\hline & & 60 mm & Black & ZB5AX2 \\
\hline & \multirow{4}{*}{Turn-to-release} & 30 mm & Black & ZB5AS42 \\
\hline & & \multirow[t]{2}{*}{40 mm} & Black & ZB5AS52 \\
\hline & & & Yellow & ZB5AS55 \\
\hline & & 60 mm & Black & ZB5AS62 \\
\hline & \multirow[b]{3}{*}{Key release (No. 455)} & 30 mm & Black & ZB5AS72 \\
\hline & & 40 mm & Black & ZB5AS12 \\
\hline \(\xrightarrow{0}\) & & 60 mm & Black & ZB5AS22 \\
\hline
\end{tabular}

Table 19.141: Circular Legends for Emergency Stop Mushroom Heads (yellow background)
\begin{tabular}{c|l|c} 
Diameter & Text & Catalog Number \\
\multirow{2}{*}{90 mm} & Blank & ZBY8101 \\
\cline { 2 - 3 } & EMERGENCY STOP & ZBY8330 \\
\hline \multirow{3}{*}{60 mm Bezeled } & Blank & ZBY9121 \\
\cline { 2 - 3 } & Emergency Stop & ZBY9320 \\
\cline { 2 - 3 } & Prada de Emergencia & ZBY9420 \\
\cline { 2 - 3 } & Not Halt & ZBY9220 \\
\hline
\end{tabular}

For Legends, see XB5 Legend Holders, page 19-58 and XB5 Legend Inserts, page 19-59
ZBY9320


ZB5AD• Standard Lever


ZB5AJX• Extended Lever

XB5 Selector Switches
Table 19.142: Non-IIluminated Selector Switches
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Color} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Number and Type of Positions}} & Standard Lever [52] & Extended Lever [52] \\
\hline & & & \multicolumn{2}{|c|}{Catalog Number} \\
\hline Black & 2-maintained & \(V\) & ZB5AD2 & ZB5AJ2 \\
\hline Black & 2-momentary from right to left & \[
\approx
\] & ZB5AD4 & ZB5AJ4 \\
\hline Black & 3-maintained & \(\downarrow\) & ZB5AD3 & ZB5AJ3 \\
\hline Black & 3-momentary to center & \(\checkmark\) & ZB5AD5 & ZB5AJ5 \\
\hline Black & 3-momentary from left to center & \[
\downarrow
\] & ZB5AD7 & ZB5AJ7 \\
\hline Black & 3-momentary from right to center & \[
\Downarrow
\] & ZB5AD8 & ZB5AJ8 \\
\hline
\end{tabular}

Table 19.143: Non-Illuminated Key Switches

\begin{tabular}{|c|c|c|c|}
\hline Type of Operator & \multicolumn{2}{|l|}{Number and Type of Positions} & Catalog Number [53] \\
\hline \multirow{14}{*}{NOTE: The symbol 8 indicates key withdrawal position(s).} & \multirow{3}{*}{2-maintained} & 8 & ZB5AG2 \\
\hline & & 88 & ZB5AG4 \\
\hline & & 8 & ZB5AG02 \\
\hline & 2-momentary from right to left & 5 & ZB5AG6 \\
\hline & \multirow{5}{*}{3-maintained} & \(88^{8}\) & ZB5AG0 \\
\hline & & \(\downarrow\) & ZB5AG3 \\
\hline & & \& & ZB5AG5 \\
\hline & & \(\vartheta\) & ZB5AG9 \\
\hline & & \(\downarrow\) & ZB5AG09 \\
\hline & 3-momentary from left to center & \(\checkmark\) & ZB5AG1 \\
\hline & 3-momentary to center & - & ZB5AG7 \\
\hline & \multirow{3}{*}{3-momentary from right to center} & \(8^{*}\) & ZB5AG8 \\
\hline & & 8 & ZB5AG08 \\
\hline & & 88 & ZB5AG05 \\
\hline
\end{tabular}

Table 19.144: Sequence of Contacts on Selector Switch Bodies


For Selector Switch Sequence, see Table 19.97 Sequence of Contacts on Illuminated Selector Switch Bodies, page 19-34


XB5 Specialty Operators
Table 19.145: Reset Operators
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of Head} & \multicolumn{2}{|l|}{Actuation Distance} & \multirow[t]{2}{*}{Text} & \multirow[b]{2}{*}{Color} & \multirow[t]{2}{*}{Catalog Number} \\
\hline & in & mm & & & \\
\hline \multirow[t]{11}{*}{Flush} & \multicolumn{5}{|l|}{Adjustable Shaft Shaft only (short) is W40437632} \\
\hline & \multirow{5}{*}{0.67-4.72} & \multirow[t]{5}{*}{17-120} & \multirow{3}{*}{Without} & Green & XB5AA831 \\
\hline & & & & Red & XB5AA841 \\
\hline & & & & Blue & XB5AA861 \\
\hline & & & 0 & Red & XB5AA84101 \\
\hline & & & R & Blue & XB5AA86102 \\
\hline & \multirow{5}{*}{4.72-10.12} & \multirow{5}{*}{120-257} & \multirow{3}{*}{Without} & Green & XB5AA832 \\
\hline & & & & Red & XB5AA842 \\
\hline & & & & Blue & XB5AA862 \\
\hline & & & 0 & Red & XB5AA84201 \\
\hline & & & R & Blue & XB5AA86202 \\
\hline \multicolumn{6}{|l|}{Extended} \\
\hline & 0.67-4.72 & 17-120 & 0 & Red & XB5AL84101 \\
\hline ) & 4.72-10.12 & 120-257 & 0 & Red & XB5AL84201 \\
\hline
\end{tabular}

Table 19.146: Potentiometer Operator (with Mounting Collar)
\begin{tabular}{c|l|c|c}
\multicolumn{2}{c|}{ Shape of Head } & Description & Application
\end{tabular}\(c\) Catalog Number

Table 19.147: Complete Potentiometers
\begin{tabular}{c|c|c|c} 
Description & Resistance (k \(\Omega\) ) & Weight \((\mathrm{kg} / \mathrm{lb})\) & Catalog Number \\
\multirow{3}{*}{\begin{tabular}{c} 
+/- 10\% linear mode precision \\
complete potentiometer with \\
screw terminals
\end{tabular}} & 1 & \(0.048 / 0.06\) & XB5AD912R1K \\
\cline { 2 - 4 } & 4.7 & \(0.048 / 0.106\) & XB5AD912R4K7 \\
\cline { 2 - 4 } & 10 & \(0.048 / 0.106\) & XB5AD912R10K \\
\cline { 2 - 4 } & 47 & \(0.048 / 0.106\) & XB5AD912R47K \\
\cline { 2 - 4 } & 100 & \(0.048 / 0.106\) & XB5AD912R100K \\
\cline { 2 - 4 } & 470 & \(0.048 / 0.106\) & XB5AD912R470K \\
\hline
\end{tabular}

Table 19.148: Joystick, 54 mm, Extended Operating Shaft. Do not use standard contact blocks ZBE10• (single) or ZBE20• (double)
\begin{tabular}{|c|c|c|c|}
\hline Description & Contact Operation & Action & Catalog Number \\
\hline \multirow[t]{2}{*}{2 direction} & \multirow[b]{2}{*}{1 step 1 N.O. contact per direction} & Maintained & XD5PA12 \\
\hline & & Momentary & XD5PA22 \\
\hline \(\uparrow\) & & Maintained & XD5PA14 \\
\hline 4 direction & 1 step 1 N.O. contact per direction & Momentary & XD5PA24 \\
\hline
\end{tabular}

Table 19.149: Legends for Joystick
\begin{tabular}{l|c|c|c}
\hline Description & For use with & Color \\
\begin{tabular}{l} 
Legends \\
\(30 \times 48 \mathrm{~mm}\) for engraving
\end{tabular} & \multirow{2}{|c}{2 direction } & \begin{tabular}{c} 
Black one side \\
Red reverse
\end{tabular} & Catalog Number \\
\cline { 3 - 4 } & & \begin{tabular}{c} 
White one side \\
Yellow reverse
\end{tabular} & ZBG2201 \\
\hline \begin{tabular}{l} 
Legends \\
\(48 \times 48 \mathrm{~mm}\) for engraving
\end{tabular} & \multirow{2}{*}{\begin{tabular}{c} 
Black one side \\
Red reverse
\end{tabular}} & ZBG2401 \\
\hline
\end{tabular}

Table 19.150: Hour Counters (UR E191025, XHNR2 and XHNR8)


XB5DS•

\begin{tabular}{|c|c|c|}
\hline Characteristics & Supply Voltage & Catalog Number \\
\hline \multirow[b]{3}{*}{Indication 0-9999.9 (IP40 NEMA 1)} & \(12-24 \mathrm{Vdc}\) or Vac, \(50 / 60 \mathrm{~Hz}\) & XB5DSB \\
\hline & \(120 \mathrm{Vac}, 60 \mathrm{~Hz}\) & XB5DSG \\
\hline & 230-240 Vac, 50 Hz & XB5DSM \\
\hline
\end{tabular}

Table 19.151: Buzzer (UR E191025, XHNR2 and XHNR8)
\begin{tabular}{l|l|c}
\hline Characteristics \\
\multirow{2}{*}{\begin{tabular}{l}
85 db buzer:4kHz, continuous or \\
intermittent \\
(IP40 NEMA 1)
\end{tabular}} & Supply Voltage & Catalog Number \\
\cline { 2 - 3 } & 24 Vdc or Vac, \(50 / 60 \mathrm{~Hz}\) & XB5KSB \\
\hline
\end{tabular}

Table 19.152: Two Position Toggle Switch
\begin{tabular}{|c|c|c|c}
\multicolumn{2}{c}{ Shape of Head } & Color & Type of Positions
\end{tabular} Catalog Number

\footnotetext{
For legends, see XB5 Legend Holders, page 19-58, XB5 Legend Inserts, page 19-59, and Table 19.179 Sheets of
egends for Push Buttons, Switches, and Pilot Lights, page 19-60
}


Refer to Catalog DIA5ED2121213EN

\section*{XB5 Pilot Lights}

Table 19.153: Pilot Light Heads
\begin{tabular}{|c|c|c|c|}
\hline Shape of Head & For use with Body Comprising Light Module Type & Color of Lens & Catalog Number \\
\hline \multirow{4}{*}{\(\square\)} & Protected LED \({ }^{\text {TM }}\) only & White Green Red Yellow Blue & ZB5AV013
ZB5AV033
ZB5AV043
ZB5AV053
ZB5AV063 \\
\hline & Protected LED only Fresnel (jeweled) lens [54] & White Green Red Amber Blue & ZB5AV013S
ZB5AV033S
ZB5AV043S
ZB5AV053S
ZB5AV063S \\
\hline & For BA9s incandescent bulb, neon or LED only [55] & White Green Red Yellow Blue Clear & ZB5AV01
ZB5AV03
ZB5AV04
ZB5AV05
ZB5AV06
ZB5AV07 \\
\hline & For BA9s incandescent bulb, neon or LED Fresnel (jeweled) lens [55] & \begin{tabular}{l}
White \\
Green Red Amber Blue Clear
\end{tabular} & \[
\begin{aligned}
& \hline \text { ZB5AV01S } \\
& \text { ZB5AV03S } \\
& \text { ZB5AV04S } \\
& \text { ZB5AV05S } \\
& \text { ZB5AV06S } \\
& \text { ZB5AV07S } \\
& \hline
\end{aligned}
\] \\
\hline & Protected LED only & \begin{tabular}{l}
White \\
Green Red Yellow Blue
\end{tabular} & \begin{tabular}{l}
ZB5CV013 \\
ZB5CV033 \\
ZB5CV043 \\
ZB5CV053 \\
ZB5CV063
\end{tabular} \\
\hline
\end{tabular}

For legends, refer to XB5 Legend Holders, page 19-58, XB5 Legend Inserts, page 19-59, and Table 19.179 Sheets of Legends for Push Buttons, Switches, and Pilot Lights, page 19-60


Table 19.154: Complete Bodies (Mounting Collar + Light Module for BA9s Incandescent Bulb, Neon or LED)
\begin{tabular}{|c|c|c|c|}
\hline Description & Light Source & Supply Voltage (V) & Catalog Number \\
\hline \multicolumn{4}{|l|}{Screw clamp terminal connections} \\
\hline Direct supply & BA9s bulb 2.4 W max. Not included [55] & <250 & ZB5AV6 \\
\hline Direct supply & BA9s incandescent, bulb included & 24 V 2 W & ZB5AV624 \\
\hline Direct supply & BA9s incandescent, bulb included & 120 V 2.4 W & ZB5AV6120 \\
\hline \multirow{5}{*}{Transformer type 1.2 VA, 6 V secondary} & \multirow{5}{*}{BA9s incandescent bulb included} & \(110-120 \mathrm{Vac}, 50 / 60 \mathrm{~Hz}\) & ZB5AV3 \\
\hline & & \(230-240 \mathrm{Vac}, 50 / 60 \mathrm{~Hz}\) & ZB5AV4 \\
\hline & & \(400-50 \mathrm{~Hz}\) & ZB5AV5 \\
\hline & & \(440-480 \mathrm{Vac}, 60 \mathrm{~Hz}\) & ZB5AV8 \\
\hline & & \(550-600 \mathrm{Vac}, 60 \mathrm{~Hz}\) & ZB5AV9 \\
\hline
\end{tabular}

Table 19.155: Complete Bodies
(Mounting Collar + Protected LED \({ }^{\text {TM }}\) Light Module) [56/[57]
\begin{tabular}{|c|c|c|c|}
\hline Light Source & Supply Voltage & Color of Light Source & Catalog Number \\
\hline \multicolumn{4}{|l|}{Screw clamp terminal connections} \\
\hline \multirow{4}{*}{} & \(12 \mathrm{Vac} / \mathrm{Vdc}\) & White Green Red Yellow Blue & \begin{tabular}{l}
ZB5AVJ1 \\
ZB5AVJ3 \\
ZB5AVJ4 \\
ZB5AVJ5 \\
ZB5AVJ6
\end{tabular} \\
\hline & \(24 \mathrm{Vac} / \mathrm{Vdc}\) & White Green Red Yellow Blue & ZB5AVB1
ZB5AVB3
ZB5AVB4
ZB5AVB5
ZB5AVB6 \\
\hline & 24-120 Vac/Vdc & White Green Red Yellow Blue & \begin{tabular}{l}
ZB5AVBG1 \\
ZB5AVBG3 \\
ZB5AVBG4 \\
ZB5AVBG5 \\
ZB5AVBG6
\end{tabular} \\
\hline & 110-120 Vac & White Green Red Yellow Blue & \[
\begin{aligned}
& \text { ZB5AVG1 } \\
& \text { ZB5AVG3 } \\
& \text { ZB5AVG4 } \\
& \text { ZB5AVG5 } \\
& \text { ZB5AVG6 }
\end{aligned}
\] \\
\hline \multirow[t]{2}{*}{Flashing} & \(24 \mathrm{Vac} / \mathrm{Vdc}\) & White Green Red Yellow Blue & \begin{tabular}{l}
ZB5AV18B1 \\
ZB5AV18B3 \\
ZB5AV18B4 \\
ZB5AV18B5 \\
ZB5AV18B6
\end{tabular} \\
\hline & 110-120 Vac & White Green Red Yellow Blue & ZB5AV18G1 ZB5AV18G3 ZB5AV18G4 ZB5AV18G5 ZB5AV18G6 \\
\hline
\end{tabular}


XB5 Illuminated Operators
Table 19.156: Heads for Momentary Illuminated Push Buttons
\begin{tabular}{|c|c|c|c|}
\hline Shape of Head & Type of Push & Color & Catalog Number \\
\hline \multicolumn{4}{|l|}{Only use with Protected LED \({ }^{\text {TM }}\) light modules} \\
\hline \multirow{5}{*}{} & \multirow{5}{*}{Flush} & White & ZB5AW313 \\
\hline & & Green & ZB5AW333 \\
\hline & & Red & ZB5AW343 \\
\hline & & Yellow & ZB5AW353 \\
\hline & & Blue & ZB5AW363 \\
\hline \multirow{5}{*}{(3)} & \multirow{5}{*}{Flush with clear boot} & White & ZB5AW513 \\
\hline & & Green & ZB5AW533 \\
\hline & & Red & ZB5AW543 \\
\hline & & Yellow & ZB5AW553 \\
\hline & & Blue & ZB5AW563 \\
\hline \multirow{5}{*}{} & \multirow{5}{*}{Flush for insertion of legend} & White & ZB5AA18 \\
\hline & & Green & ZB5AA38 \\
\hline & & Red & ZB5AA48 \\
\hline & & Yellow & ZB5AA58 \\
\hline & & Blue & ZB5AA68 \\
\hline \multirow{5}{*}{} & \multirow{5}{*}{Extended} & White & ZB5AW113 \\
\hline & & Green & ZB5AW133 \\
\hline & & Red & ZB5AW143 \\
\hline & & Yellow & ZB5AW153 \\
\hline & & Blue & ZB5AW163 \\
\hline \multirow{5}{*}{} & \multirow{5}{*}{Flush for insertion of legend} & White & ZB5CW313 \\
\hline & & Green & ZB5CW333 \\
\hline & & Red & ZB5CW343 \\
\hline & & Yellow & ZB5CW353 \\
\hline & & Blue & ZB5CW363 \\
\hline \multirow{5}{*}{} & \multirow{5}{*}{Extended} & White & ZB5CW113 \\
\hline & & Green & ZB5CW133 \\
\hline & & Red & ZB5CW143 \\
\hline & & Yellow & ZB5CW153 \\
\hline & & Blue & ZB5CW163 \\
\hline \multicolumn{4}{|l|}{Only use with light modules for a BA9s incandescent bulb, neon or LED} \\
\hline \multirow{6}{*}{} & \multirow{6}{*}{Flush} & White & ZB5AW31 \\
\hline & & Green & ZB5AW33 \\
\hline & & Red & ZB5AW34 \\
\hline & & Yellow & ZB5AW35 \\
\hline & & Blue & ZB5AW36 \\
\hline & & Clear & ZB5AW37 \\
\hline \multirow{6}{*}{} & \multirow{6}{*}{Extended} & White & ZB5AW11 \\
\hline & & Green & ZB5AW13 \\
\hline & & Red & ZB5AW14 \\
\hline & & Yellow & ZB5AW15 \\
\hline & & Blue & ZB5AW16 \\
\hline & & Clear & ZB5AW17 \\
\hline
\end{tabular}

Table 19.157: Illuminated Push-on/Push-off Operators


For legends, refer to XB5 Legend Holders, page 19-58, XB5 Legend Inserts, page 19-59, and Table 19.179 Sheets of Legends for Push Buttons, Switches, and Pilot Lights, page 19-60
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Table 19.158: Two Button with Clear Pilot Light, Momentary
\begin{tabular}{|c|c|c|c|c|c|}
\hline Shape of Head & Description & Marking & Cap Color & Degree of Protection & Catalog Number \\
\hline \multicolumn{6}{|l|}{No Marking} \\
\hline protected & \multirow[b]{2}{*}{Two flush} & - & Green Red & \multirow{3}{*}{\[
\begin{aligned}
& \text { IP66 } \\
& \text { IP69K }
\end{aligned}
\]} & ZB5AW7A3740 \\
\hline  & & - & White Black & & ZB5AW7A1720 \\
\hline  & One flush One extended & - & Green Red & & ZB5AW7L3740 \\
\hline \multicolumn{6}{|l|}{Premarked} \\
\hline protected 1 & \multirow[b]{2}{*}{Two flush} & \[
\begin{aligned}
& \text { "l" (white) } \\
& \text { "O" (white) } \\
& \hline
\end{aligned}
\] & Green Red & \multirow{5}{*}{\[
\begin{aligned}
& \text { IP66 } \\
& \text { IP69K }
\end{aligned}
\]} & ZB5AW7A3741 \\
\hline  & & \[
\begin{aligned}
& \text { "I" (black) } \\
& \text { "O" (white) }
\end{aligned}
\] & White Black & & ZB5AW7A1721 \\
\hline  & One flush One extended & \[
\begin{aligned}
& \text { "" "(white) } \\
& \text { "O" (white) }
\end{aligned}
\] & Green Red & & ZB5AW7L3741 \\
\hline  & Two flush & \begin{tabular}{l}
" 1 " (black)
" \("\) " \\
" \(\downarrow\) " (white)
\end{tabular} & White Black & & ZB5AW7A1724 \\
\hline  & Two flush & \begin{tabular}{l}
"+" (black) \\
"-" (black)
\end{tabular} & White White & & ZB5AW7A1715 \\
\hline \multicolumn{6}{|l|}{Without caps} \\
\hline Two flush without caps & & - & - & IP66, IP69K & ZB5AW7A9 \\
\hline
\end{tabular}

Table 19.159: Heads for Maintained Illuminated Push Buttons
\begin{tabular}{|c|c|c|c|}
\hline Shape of Head & Type of Push & Color & Catalog Number \\
\hline \multicolumn{4}{|l|}{Only use with Protected LED light modules} \\
\hline \multicolumn{2}{|l|}{\multirow[b]{5}{*}{Turn-to-Release Mushroom (40 mm )}} & White & ZB5AW713 \\
\hline & & Green & ZB5AW733 \\
\hline & & Red & ZB5AW743 \\
\hline & & Yellow & ZB5AW753 \\
\hline & & Blue & ZB5AW763 \\
\hline
\end{tabular}

Table 19.160: Emergency Stop, Trigger Action and Mech Latching Push Button with Mech State Indicator for Elevator Inspection Box Applications-Heads Only

\begin{tabular}{|c|c|c|c|}
\hline Shape of Head & \multicolumn{2}{|l|}{Number and Type of Positions} & Catalog Number [58] \\
\hline \multicolumn{4}{|l|}{Only use with Protected LED light modules} \\
\hline \multirow{6}{*}{(1)} & 2-maintained & V & ZB5AK12•3 \\
\hline & 2-momentary from right to left & \[
5
\] & ZB5AK14•3 \\
\hline & 3-maintained & \(\downarrow\) & ZB5AK13•3 \\
\hline & 3-momentary to center & \[
\sqrt{V}
\] & ZB5AK15•3 \\
\hline & 3-momentary from right to center & \(\downarrow\) & ZB5AK18•3 \\
\hline & 3-momentary from left to center & \[
\downarrow
\] & ZB5AK17•3 \\
\hline
\end{tabular}

Table 19.162: Sequence of Contacts on Selector Switch Bodies
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{\multirow[b]{2}{*}{Unit Type}} & & & & & & & \multicolumn{9}{|c|}{\multirow[b]{2}{*}{3-position}} \\
\hline & & \multicolumn{6}{|c|}{2-position} & & & & & & & & & \\
\hline \multicolumn{2}{|l|}{\[
\begin{gathered}
\text { Note: } \\
\angle=\text { Left, }, C=C e n t e r, R=R i g h t, ~ \\
O=\text { Open, } X=\text { Closed }
\end{gathered}
\]} & \multicolumn{3}{|r|}{} & \multicolumn{3}{|l|}{\[
0
\]} & \multicolumn{3}{|c|}{\[
8
\]} & \multicolumn{3}{|c|}{\[
0
\]} & \multicolumn{3}{|l|}{\[
\infty
\]} \\
\hline \multirow[b]{2}{*}{Operator Plunger
Position} & Up & & & & & & & & & & & & & & & \\
\hline & Down & & & & & & & & & & & & & & & \\
\hline Contact Block Location & & L & C & R & L & C & R & L & C & R & L & c & R & L & c & R \\
\hline \multirow[t]{2}{*}{Contacts} & N.O. & 0 & O & - & X & X & X & X & X & - & 0 & 0 & 0 & 0 & X & X \\
\hline & N.C. & X & x & X & 0 & 0 & 0 & 0 & 0 & X & x & x & X & x & 0 & 0 \\
\hline
\end{tabular}

For legends, see XB5 Legend Holders, page 19-58, XB5 Legend Inserts, page 19-59, and Table 19.179 Sheets of Legends for Push Buttons, Switches, and Pilot Lights, page 19-60.
For Caps, see Table 19.189 Lens Caps, page 19-62

XB5 Electrical Components
NOTE: For the Quick-Connect version, add the numeral 3 to the end of the number. Example: ZB5AZ1013 (Quick-Connect size \(1 \times 0.250\) " or \(2 \times 0.110\) ").
Table 19.163: Contact Blocks
(Mounting Collar with Contact Blocks) [59] [60] [61]
\begin{tabular}{c|c|c|c}
\multirow{2}{*}{ Description } & \multicolumn{2}{|c}{ Type of Contact } & \multirow{2}{*}{ Catalog Number } \\
\cline { 2 - 4 } & N.O. & N.C. & ZB5AZ101 \\
\cline { 2 - 4 } & 1 & - & ZB5AZ102 \\
\cline { 2 - 4 } \begin{tabular}{c} 
Screw clamp terminal \\
connections
\end{tabular} & - & 1 & ZB5AZ103 \\
\cline { 2 - 4 } & 2 & - & ZB5AZ104 \\
\cline { 2 - 4 } & - & 2 & ZB5AZ105 \\
\cline { 2 - 5 } & 1 & 1 & ZB5AZ141 \\
\hline
\end{tabular}

Table 19.164: Complete Bodies
(Mounting Collar + Single Contact Block + Light Module with Protected LED \({ }^{\text {TM }}\) )
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow{3}{*}{Light Source} & \multicolumn{2}{|l|}{\[
\begin{aligned}
& \text { Type of Contact } \\
& \text { [62] } \\
& \hline
\end{aligned}
\]} & \multirow{3}{*}{Color} & \multicolumn{2}{|c|}{Supply Voltage [63]} \\
\hline & \multirow[b]{2}{*}{N.O.} & \multirow[t]{2}{*}{N.C.} & & \(24 \mathrm{Vac} / \mathrm{Vdc}\) & 110-120 Vac \\
\hline & & & & \multicolumn{2}{|c|}{Catalog Number} \\
\hline \multicolumn{6}{|l|}{Screw clamp terminal connections} \\
\hline & & & White & ZB5AW0B11 & ZB5AW0G11 \\
\hline & & & Green & ZB5AW0B31 & ZB5AW0G31 \\
\hline & 1 & - & Red & ZB5AW0B41 & ZB5AW0G41 \\
\hline & & & Yellow & ZB5AW0B51 & ZB5AW0G51 \\
\hline & & & Blue & ZB5AW0B61 & ZB5AW0G61 \\
\hline & \multirow{5}{*}{-} & \multirow{5}{*}{1} & White & ZB5AW0B12 & ZB5AW0G12 \\
\hline & & & Green & ZB5AW0B32 & ZB5AW0G32 \\
\hline & & & Red & ZB5AW0B42 & ZB5AW0G42 \\
\hline \multirow[t]{12}{*}{te} & & & Yellow & ZB5AW0B52 & ZB5AW0G52 \\
\hline & & & Blue & ZB5AW0B62 & ZB5AW0G62 \\
\hline & \multirow{5}{*}{2} & \multirow{5}{*}{-} & White & ZB5AW0B13 & ZB5AW0G13 \\
\hline & & & Green & ZB5AW0B33 & ZB5AW0G33 \\
\hline & & & Red & ZB5AW0B43 & ZB5AW0G43 \\
\hline & & & Yellow & ZB5AW0B53 & ZB5AW0G53 \\
\hline & & & Blue & ZB5AW0B63 & ZB5AW0G63 \\
\hline & \multirow{5}{*}{1} & \multirow{5}{*}{1} & White & ZB5AW0B15 & ZB5AW0G15 \\
\hline & & & Green & ZB5AW0B35 & ZB5AW0G35 \\
\hline & & & Red & ZB5AW0B45 & ZB5AW0G45 \\
\hline & & & Yellow & ZB5AW0B55 & ZB5AW0G55 \\
\hline & & & Blue & ZB5AW0B65 & ZB5AW0G65 \\
\hline
\end{tabular}

For LEDs, see LED, BA9s Base, page 19-129.
Table 19.165: Mounting Collar, Contact Block and Light Module (with screw clamp terminal connections)
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Supply} & \multirow[t]{2}{*}{Light Source} & \multirow[t]{2}{*}{Supply Voltage} & \multicolumn{2}{|l|}{Type of Contact [62]} & \multirow[t]{2}{*}{Color of Light Source} & \multirow[t]{2}{*}{Catalog Number} \\
\hline & & & N.O. & N.C. & & \\
\hline \multicolumn{7}{|l|}{Screw clamp terminal connections} \\
\hline \multirow{4}{*}{Direct supply} & \multirow[t]{4}{*}{\begin{tabular}{l}
BA9s \\
2.4 W max. bulb Not included [64]
\end{tabular}} & \multirow{4}{*}{\[
\begin{gathered}
<250 \mathrm{Vac} / \\
\text { Vdc }
\end{gathered}
\]} & 1 & - & - & ZB5AW061 \\
\hline & & & - & 1 & - & ZB5AW062 \\
\hline & & & 2 & - & - & ZB5AW063 \\
\hline & & & 1 & 1 & - & ZB5AW065 \\
\hline \multirow[t]{4}{*}{Transformer type 1.2 VA, 6 V secondary} & \multirow{4}{*}{BA9s incandescent bulb included} & \multirow[t]{2}{*}{\[
\begin{gathered}
110-120 \mathrm{Vac} \\
50 / 60 \mathrm{~Hz}
\end{gathered}
\]} & 1 & - & - & ZB5AW031 \\
\hline & & & 1 & 1 & - & ZB5AW035 \\
\hline & & \multirow[t]{2}{*}{\[
\begin{gathered}
\hline 230-240 \mathrm{Vac} \\
50 / 60 \mathrm{~Hz} \\
\hline
\end{gathered}
\]} & 1 & - & - & ZB5AW041 \\
\hline & & & 1 & 1 & - & ZB5AW045 \\
\hline
\end{tabular}
schneider-electric.us
Table 19.166: Body/Mounting Collar
\begin{tabular}{l|c|}
\hline For use with & Catalog Number \\
\hline Electrical block (contact or light module) & ZB5AZ009 \\
\hline
\end{tabular}
Table 19.167: Add-On Contact Block (with screw clamp terminal connections) [65] [66]
\begin{tabular}{|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Description}} & \multicolumn{2}{|c|}{Type of Contact} & \multirow[t]{2}{*}{Catalog Number} \\
\hline & & N.O. & N.C. & \\
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Standard single contact blocks[67][68]}} & 1 & - & ZBE101 \\
\hline & & - & 1 & ZBE102 \\
\hline \multicolumn{2}{|l|}{\multirow{3}{*}{Standard double contact blocks[67][68]}} & 2 & - & ZBE203 \\
\hline & & - & 2 & ZBE204 \\
\hline & & 1 & 1 & ZBE205 \\
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Special contact blocks for low-power switching [69]}} & 1 & - & ZBE1016 \\
\hline & & - & 1 & ZBE1026 \\
\hline \multirow[b]{2}{*}{Low-power switching} & \multirow[t]{2}{*}{\begin{tabular}{l}
Dusty environment [69] \\
(IP5X, \(50 \mu \mathrm{~m}\) dust)
\end{tabular}} & 1 & - & ZBE1016P \\
\hline & & - & 1 & ZBE1026P \\
\hline \multirow{4}{*}{Staggered contacts} & Early make N.O. & 1 & - & ZBE201 \\
\hline & Late break N.C. & - & 1 & ZBE202 \\
\hline & Overlapping
N.O. + N.C. & 1 & 1 & ZB4BZ106 \\
\hline & Staggered
N.O. + N.O. & - & 2 & ZB4BZ107 \\
\hline
\end{tabular}
Table 19.168: Light Modules (with screw clamp terminal connections)[65][6]]

ZBVB•
\begin{tabular}{|c|c|c|c|}
\hline Description & Supply Voltage & Color of Light Source & Catalog Number \\
\hline & & White & ZBVJ1 \\
\hline & & Green & ZBVJ3 \\
\hline & \(12 \mathrm{Vac} / \mathrm{Vdc}\) & Red & ZBVJ4 \\
\hline & & Yellow & ZBVJ5 \\
\hline & & Blue & ZBVJ6 \\
\hline & & White & ZBVB1 \\
\hline & & Green & ZBVB3 \\
\hline & \(24 \mathrm{Vac} / \mathrm{Vdc}\) & Red & ZBVB4 \\
\hline & & Yellow & ZBVB5 \\
\hline & & Blue & ZBVB6 \\
\hline ceted & & White & ZBVG1 \\
\hline rotectm & & Green & ZBVG3 \\
\hline  & 110-120 Vac & Red & ZBVG4 \\
\hline & & Yellow & ZBVG5 \\
\hline & & Blue & ZBVG6 \\
\hline & & White & ZBVBG1 \\
\hline & & Green & ZBVBG3 \\
\hline & 24-120 Vac/Vdc & Red & ZBVBG4 \\
\hline & & Yellow & ZBVBG5 \\
\hline & & Blue & ZBVBG6 \\
\hline & & White & ZBVM1 \\
\hline & & Green & ZBVM3 \\
\hline & 230-240 Vac & Red & ZBVM4 \\
\hline & & Yellow & ZBVM5 \\
\hline & & Blue & ZBVM6 \\
\hline \begin{tabular}{l}
Direct supply for BA9s \\
(2.4 W max. bulb not included-see Table 19.184 BA9s Bulbs and Associated Accessories, page 19-61)
\end{tabular} & < \(250 \mathrm{Vac} / \mathrm{Vdc}\) & - & ZBV6 \\
\hline
\end{tabular}
For LEDs, see LED, BA9s Base, page 19-129.



Table 19.169: Body/Mounting Collar


Table 19.170: Contact Blocks [70]
\begin{tabular}{|c|c|c|c|c|}
\hline \multicolumn{5}{|l|}{Spring Terminal Connections, Contacts for Standard Applications} \\
\hline Description & Type of contact & \[
\left.\right|_{\text {N.O. }} ^{1}
\] & \[
\overbrace{\text { N.C. }}^{\rightarrow} \underset{ }{\rightarrow}
\] & Catalog Number \\
\hline \multirow{6}{*}{Contact blocks} & \multirow[t]{2}{*}{Single} & 1 & - & ZBE1015 \\
\hline & & - & 1 & ZBE1025 \\
\hline & \multirow{4}{*}{Single with body/mounting collar} & 1 & - & ZB4BZ1015 \\
\hline & & - & 1 & ZB4BZ1025 \\
\hline & & 2 & - & ZB4BZ1035 \\
\hline & & - & 2 & ZB4BZ1045 \\
\hline
\end{tabular}

Table 19.171: Light Modules [70]
\begin{tabular}{|c|c|c|c|}
\hline \multicolumn{4}{|l|}{Spring Terminal Connections} \\
\hline Description & Supply voltage & Color of light source & Catalog Number \\
\hline \multirow{20}{*}{Integral LED (to combine with heads for integral LED) protected} & \multirow{5}{*}{\(12 \mathrm{Vac} / \mathrm{Vdc}\)} & White & ZBVJ15 \\
\hline & & Green & ZBVJ35 \\
\hline & & Red & ZBVJ45 \\
\hline & & Orange & ZBVJ55 \\
\hline & & Blue & ZBVJ65 \\
\hline & \multirow{5}{*}{\(24 \mathrm{Vac} / \mathrm{Vdc}\)} & White & ZBVB15 \\
\hline & & Green & ZBVB35 \\
\hline & & Red & ZBVB45 \\
\hline & & Orange & ZBVB55 \\
\hline & & Blue & ZBVB65 \\
\hline & \multirow{5}{*}{110-120 Vac} & White & ZBVG15 \\
\hline & & Green & ZBVG35 \\
\hline & & Red & ZBVG45 \\
\hline & & Orange & ZBVG55 \\
\hline & & Blue & ZBVG65 \\
\hline & \multirow{5}{*}{230-240 Vac} & White & ZBVM15 \\
\hline & & Green & ZBVM35 \\
\hline & & Red & ZBVM45 \\
\hline & & Orange & ZBVM55 \\
\hline & & Blue & ZBVM65 \\
\hline
\end{tabular}

\section*{XB5 Legend Holders}

Table 19.172: Standard ( \(30 \times 40 \mathrm{~mm}\) ) Legend Holders for \(8 \times 27 \mathrm{~mm}\) Legends
\begin{tabular}{|c|c|c|c|}
\hline \multirow[b]{2}{*}{Description} & \multicolumn{2}{|r|}{Legend} & \multirow[t]{2}{*}{Catalog Number} \\
\hline & Color & Text & \\
\hline Without legend [71] & - & - & ZBZ32 \\
\hline \multirow[t]{2}{*}{With blank legend (for engraving)} & Black or red background & - & ZBY2101 \\
\hline & White or yellow background & - & ZBY4101 \\
\hline \multirow[t]{4}{*}{Custom Legend (Specify Engraving) 2 lines of 11 characters (including spaces) maximum per line} & Black background & White & ZBY2002 \\
\hline & Red background & White & ZBY2004 \\
\hline & White background & Black & ZBY4001 \\
\hline & Yellow background & Black & ZBY4005 \\
\hline \multirow{7}{*}{With legend marked with international language} & \multirow{7}{*}{Black or red background [72]} & O (black background) & ZBY2146 \\
\hline & & O (red background) & ZBY2931 \\
\hline & & 1 & ZBY2147 \\
\hline & & 11 & ZBY2148 \\
\hline & & O-I & ZBY2178 \\
\hline & & I-II & ZBY2179 \\
\hline & & I-O-II & ZBY2186 \\
\hline \multirow{29}{*}{With legend marked with English language} & \multirow{29}{*}{Black or red background[72]} & AUTO & ZBY2115 \\
\hline & & AUTO-HAND & ZBY2364 \\
\hline & & AUTO-O-HAND & ZBY2385 \\
\hline & & CLOSE & ZBY2314 \\
\hline & & DOWN & ZBY2308 \\
\hline & & EMERGENCY STOP & ZBY2330 \\
\hline & & FAST & ZBY2328 \\
\hline & & FORWARD & ZBY2305 \\
\hline & & FOR-REV & ZBY2371 \\
\hline & & HAND & ZBY2316 \\
\hline & & HAND-OFF-AUTO & ZBY2387 \\
\hline & & INCH & ZBY2321 \\
\hline & & JOG & ZBY2382 \\
\hline & & LEFT & ZBY2310 \\
\hline & & OFF & ZBY2312 \\
\hline & & OFF-ON & ZBY2367 \\
\hline & & ON & ZBY2311 \\
\hline & & OPEN & ZBY2313 \\
\hline & & POWER ON & ZBY2326 \\
\hline & & RESET (red background) & ZBY2323 \\
\hline & & RESET (black background) & ZBY2322 \\
\hline & & REVERSE & ZBY2306 \\
\hline & & RIGHT & ZBY2309 \\
\hline & & RUN & ZBY2334 \\
\hline & & SLOW & ZBY2327 \\
\hline & & START & ZBY2303 \\
\hline & & STOP & ZBY2304 \\
\hline & & STOP-START & ZBY2366 \\
\hline & & UP & ZBY2307 \\
\hline
\end{tabular}

Table 19.173: Large ( \(30 \times 50 \mathrm{~mm}\) ) Legend Holders for \(18 \times 27 \mathrm{~mm}\) Legends
\begin{tabular}{l|l|c}
\hline Description [73] & Color & Catalog Number \\
\hline Without legend insert & - & ZBZ33 \\
\hline \multirow{2}{*}{ With blank legend insert } & Black or red background & ZBY6101 \\
\cline { 2 - 3 } & White or yellow background & ZBY6102 \\
\hline
\end{tabular}

Table 19.174: \(30 \times 40 \mathrm{~mm}\) legend holder (flush mounting with bezel) for \(\mathbf{8 \times 2 7} \mathbf{~ m m}\) legends
\begin{tabular}{l|l|c}
\hline Description [73] & Color & Catalog Number \\
\hline Without legend & - & ZBZ34 \\
\hline \multirow{2}{*}{ With blank legend } & Black or red background & ZBY2H101 \\
\cline { 2 - 3 } & White or yellow background & ZBY4H101 \\
\hline
\end{tabular}
 legends
\begin{tabular}{l|l|c}
\hline Description [73] & Color & Catalog Number \\
\hline Without legend & - & ZBZ35 \\
\hline With blank legend & Black or red background & ZBY6H101 \\
\hline & White or yellow background & ZBY6H102 \\
\hline
\end{tabular}

\footnotetext{
[71] For legends, see XB5 Legend Inserts Only, page 19-59.
[72] Start functions: white letters on black background. Stop functions: white letters on red background (unless otherwise specified above).
[73] For custom legends, see Iable 19.1/y Sheets of Legends for Push Buttons, Switches, and Pilot Lights, page 19-60
}


XB5 Legend Inserts
Table 19.176: Marked Legends for \(8 \times 27 \mathrm{~mm}\) (for \(30 \times 40 \mathrm{~mm}\) legend holders ZBZ32)
\begin{tabular}{|c|c|c|c|}
\hline Color & Marking & Text & Catalog Number \\
\hline \multirow{36}{*}{Black or red background [74]} & \multirow{7}{*}{International} & O (black background) & ZBY02146 \\
\hline & & O (red background) & ZBY02931 \\
\hline & & I & ZBY02147 \\
\hline & & II & ZBY02148 \\
\hline & & O-I & ZBY02178 \\
\hline & & I-II & ZBY02179 \\
\hline & & I-O-II & ZBY02186 \\
\hline & \multirow{29}{*}{English} & AUTO & ZBY02115 \\
\hline & & AUTO-HAND & ZBY02364 \\
\hline & & AUTO-O-HAND & ZBY02385 \\
\hline & & CLOSE & ZBY02314 \\
\hline & & DOWN & ZBY02308 \\
\hline & & EMERGENCY STOP & ZBY02330 \\
\hline & & FAST & ZBY02328 \\
\hline & & FORWARD & ZBY02305 \\
\hline & & FOR-REV & ZBY02371 \\
\hline & & HAND & ZBY02316 \\
\hline & & HAND-OFF-AUTO & ZBY02387 \\
\hline & & INCH & ZBY02321 \\
\hline & & JOG & ZBY02382 \\
\hline & & LEFT & ZBY02310 \\
\hline & & OFF & ZBY02312 \\
\hline & & OFF-ON & ZBY02367 \\
\hline & & ON & ZBY02311 \\
\hline & & OPEN & ZBY02313 \\
\hline & & POWER ON & ZBY02326 \\
\hline & & RESET (red background) & ZBY02323 \\
\hline & & RESET (black background) & ZBY02322 \\
\hline & & REVERSE & ZBY02306 \\
\hline & & RIGHT & ZBY02309 \\
\hline & & RUN & ZBY02334 \\
\hline & & SLOW & ZBY02327 \\
\hline & & START & ZBY02303 \\
\hline & & STOP & ZBY02304 \\
\hline & & STOP-START & ZBY02366 \\
\hline & & UP & ZBY02307 \\
\hline
\end{tabular}

Table 19.177: Legends for Customer Engraving (inserts only)
\begin{tabular}{l|c|c|c|c}
\hline Description & For use with & Color & \begin{tabular}{c} 
Text \\
Color
\end{tabular} & Catalog Number \\
\hline \multirow{2}{*}{\(8 \times 27 \mathrm{~mm}\)} & \(30 \times 40 \mathrm{~mm}\) legend holders & \begin{tabular}{c} 
Black or red \\
background
\end{tabular} & White & ZBY0101 \\
\cline { 3 - 5 } \(18 \times 27 \mathrm{~mm}\) & \begin{tabular}{c} 
White or yellow \\
background
\end{tabular} & Black & ZBY0102 \\
\hline & \(30 \times 50 \mathrm{~mm}\) legend holders & \begin{tabular}{c} 
Black or red \\
background
\end{tabular} & White & ZBY5101 \\
\cline { 3 - 5 } & \begin{tabular}{c} 
White or yellow \\
background
\end{tabular} & Black & ZBY5102 \\
\hline
\end{tabular}

Table 19.178: Legends for Factory Engraving (inserts only)
\begin{tabular}{|c|c|c|c|c|}
\hline Description & For use with & Color & Text Color & Catalog Number \\
\hline \multirow[t]{4}{*}{\begin{tabular}{l}
\(8 \times 27\) mm Custom Legend/Insert Only (Specify Engraving) 2 lines of 11 characters (including spaces) maximum per line \\
(Example: ZBY01002 marked "Robot")
\end{tabular}} & \multirow{4}{*}{\[
\begin{gathered}
30 \times 40 \mathrm{~mm} \\
\text { legend } \\
\text { holders }
\end{gathered}
\]} & Black background & White & ZBY01002 \\
\hline & & Red background & White & ZBY01004 \\
\hline & & White background & Black & ZBY01001 \\
\hline & & Yellow background & Black & ZBY01005 \\
\hline \multirow[t]{4}{*}{\(18 \times 27 \mathrm{~mm}\) Custom Legend/Insert Only (Specify Engraving) 3 lines of 11 characters (including spaces) maximum per line (Example: ZBY05002 marked "Robot")} & \multirow{4}{*}{\[
\begin{gathered}
30 \times 50 \mathrm{~mm} \\
\text { legend } \\
\text { holders }
\end{gathered}
\]} & Black background & White & ZBY05002 \\
\hline & & Red background & White & ZBY05004 \\
\hline & & White background & Black & ZBY05001 \\
\hline & & Yellow background & Black & ZBY05005 \\
\hline
\end{tabular}

XB5 Accessories
Table 19.179: Sheets of Legends for Push Buttons, Switches, and Pilot Lights


ZBY1101


ZBA•33
\begin{tabular}{|c|c|c|c|}
\hline Description & Marking & Text & Catalog Number \\
\hline \multirow{12}{*}{Sheets of 66 circular peel-off transparent self-adhesive legends} & Blank Round & & ZBY1101 \\
\hline & Blank-Square legends & & ZBCY1101 \\
\hline & \multirow{6}{*}{International} & O & ZBY1146 \\
\hline & & 1 & ZBY1147 \\
\hline & & II & ZBY1148 \\
\hline & & III & ZBY1149 \\
\hline & & STOP & ZBY1304 \\
\hline & & \(\rightarrow\) & ZBY1912 \\
\hline & \multirow{4}{*}{English} & HAND & ZBY1316 \\
\hline & & OFF & ZBY1312 \\
\hline & & ON & ZBY1311 \\
\hline & & START & ZBY1303 \\
\hline
\end{tabular}

Table 19.180: Push Button Caps—Unmarked
\begin{tabular}{|c|c|c|c|}
\hline For use with & Type of Push & Color & Catalog Number \\
\hline \multirow{14}{*}{\begin{tabular}{l}
ZB4BA0 \\
push button heads
\end{tabular}} & \multirow{7}{*}{Flush} & White & ZBA1 \\
\hline & & Black & ZBA2 \\
\hline & & Green & ZBA3 \\
\hline & & Red & ZBA4 \\
\hline & & Yellow & ZBA5 \\
\hline & & Blue & ZBA6 \\
\hline & & 6 colors [75] & ZBA9 \\
\hline & \multirow{7}{*}{Extended} & White & ZBL1 \\
\hline & & Black & ZBL2 \\
\hline & & Green & ZBL3 \\
\hline & & Red & ZBL4 \\
\hline & & Yellow & ZBL5 \\
\hline & & Blue & ZBL6 \\
\hline & & 6 colors [75] & ZBL9 \\
\hline
\end{tabular}

Table 19.181: Push Button Caps-Marked
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{For use with} & \multirow[b]{2}{*}{Type of Push} & \multicolumn{2}{|c|}{Marking} & \multirow[b]{2}{*}{Cap Color} & \multirow[b]{2}{*}{Catalog Number} \\
\hline & & Text [76] & Color & & \\
\hline \multirow{20}{*}{ZB4BA0 push button heads} & \multirow{20}{*}{Flush} & \multirow[t]{2}{*}{I [77]} & White & Green & ZBA331 \\
\hline & & & Black & White & ZBA131 \\
\hline & & \multirow[t]{2}{*}{START [77]} & White & Green & ZBA333 \\
\hline & & & Black & White & ZBA133 \\
\hline & & \multirow[t]{2}{*}{ON} & White & Green & ZBA341 \\
\hline & & & Black & White & ZBA141 \\
\hline & & UP [77] & Black & White & ZBA343 \\
\hline & & DOWN [77] & White & Black & ZBA344 \\
\hline & & (1)
[77] & White & Green & ZBA345 \\
\hline & & (1)
[77] & White & Black & ZBA245 \\
\hline & & -1 & White & Green & ZBA346 \\
\hline & & \multirow[t]{2}{*}{\(\uparrow\)} & Black & White & ZBA334 [78] \\
\hline & & & White & Black & ZBA335 [78] \\
\hline & & \multirow[t]{2}{*}{O [77]} & \multirow[t]{2}{*}{White} & Red & ZBA432 \\
\hline & & & & Black & ZBA232 \\
\hline & & \multirow[t]{2}{*}{STOP [77]} & \multirow[t]{2}{*}{White} & Red & ZBA434 \\
\hline & & & & Black & ZBA234 \\
\hline & & \multirow[t]{2}{*}{OFF} & \multirow[t]{2}{*}{White} & Red & ZBA435 \\
\hline & & & & Black & ZBA235 \\
\hline & & R [77] & White & Blue & ZBA639 \\
\hline
\end{tabular}


ZBA7235 ZBA7331


ZBA7432


ZBA79



ZBZ160•


ZBZ1700


DL1CE•••


XBFX13


DL1CF•••


ZBZ8

Table 19.182: Multiple-head and XB5R Push Button Caps[79]
\begin{tabular}{|c|c|c|c|c|}
\hline For use with & Type of Push & Marking & Cap Color & Catalog Number \\
\hline \multirow{19}{*}{\begin{tabular}{l}
Double push button heads \\
Tripe push button heads \\
ZB4RZA0 \\
ZB5RZA0
\end{tabular}} & \multirow{19}{*}{Flush} & Unmarked & \multirow{4}{*}{White} & ZBA71 \\
\hline & & "I" black & & ZBA7131 \\
\hline & & \(\rightarrow\) black & & ZBA7134 \\
\hline & & "+" black & & ZBA7138 \\
\hline & & Unmarked & \multirow{5}{*}{Black} & ZBA72 \\
\hline & & "O" white & & ZBA7232 \\
\hline & & "+" white & & ZBA7233 \\
\hline & & \(\Rightarrow\) white & & ZBA7235 \\
\hline & & "I" white & & ZBA7237 \\
\hline & & Unmarked & \multirow{5}{*}{Green} & ZBA73 \\
\hline & & "l" white & & ZBA7331 \\
\hline & & "+" white & & ZBA7333 \\
\hline & & ¢ white & & ZBA7335 \\
\hline & & "II" white & & ZBA7336 \\
\hline & & Unmarked & \multirow[b]{2}{*}{Red} & ZBA74 \\
\hline & & "O" white & & ZBA7432 \\
\hline & & Unmarked & Yellow & ZBA75 \\
\hline & & Unmarked & Blue & ZBA76 \\
\hline & & Assorted & 10 colors[80] & ZBA79 \\
\hline
\end{tabular}

Table 19.183: Accessories
\begin{tabular}{|c|c|c|c|}
\hline Description & Application & Color & Catalog Number \\
\hline \begin{tabular}{l}
Padlocking kit Conforming to EN/ISO 13850 [81] \\
(See legends below)
\end{tabular} & For Emergency Stop function only, with the following Ø 40 trigger-action push buttons: XB5AT8•, XB5AS8•, XB5AS9•, ZB5AT8•,
ZB5AS8•, ZB5AS9• & Yellow & ZBZ3605 \\
\hline \multirow{6}{*}{Metal guards Padlockable} & \multirow{5}{*}{For Emergency Stop function only with the following \(\varnothing 40 \mathrm{~mm}\) trigger-action push buttons: XB5AT8•, XB5AS8•, XB5AS9•, ZB5AT8• (except ZB5AT8643M), ZB5AS8•, ZB5AS9•} & Chrome & ZBZ1600 \\
\hline & & Black & ZBZ1602 \\
\hline & & Red & ZBZ1604 \\
\hline & & Yellow & ZBZ1605 \\
\hline & & Blue & ZBZ1606 \\
\hline & For Emergency Stop function with XB4 and XB5 E-Stop 30 mm and 40 mm operators & Chrome plated & ZBZ1700 \\
\hline \multirow{3}{*}{Plastic guards[82]} & Round Guard for ZB4BS5430, 2.5" dia EMO Mushroom Operators & Yellow & ZB4BZ1905 \\
\hline & Narrow Flange Guard for ZB4BS5430 or ZB4BS84430 EMO Mushroom Operators[83] & Yellow & ZB4BZ2005 \\
\hline & Trigger Action Guard for ZB4BS84430, 3" dia EMO Mushroom Operators & Yellow & ZB4BZ2105 \\
\hline Padlockable flaps & For push buttons & Black & ZB4BZ62 \\
\hline & & Black & ZB5SZ3 \\
\hline [84] & For \(\varnothing 22 \mathrm{~mm}\) units with square heads & Black & ZB5SZ5 \\
\hline Square insert & To give square appearance to ZB5A round heads & Black & ZB5AZ31 \\
\hline Mounting nut & Operator & - & ZB5AZ901 \\
\hline Tool & For tightening mounting nut ZB5AZ901 & - & ZB5AZ905 \\
\hline Plate & Anti-rotation of head & - & ZB5AZ902 \\
\hline
\end{tabular}

Table 19.184: BA9s Bulbs and Associated Accessories
\begin{tabular}{l|l|c}
\multirow{3}{*}{ Description } & Characteristics & Catalog Number \\
\multirow{3}{*}{\begin{tabular}{l} 
Replacement bulbs (Type BA9s) \\
Incandescent
\end{tabular}} & \(6 \mathrm{~V}, 1.2 \mathrm{~W}\) & DL1CB006 \\
\cline { 2 - 3 } & \(12 \mathrm{~V}, 2 \mathrm{~W}\) & DL1CE012 \\
\cline { 2 - 3 } & \(24 \mathrm{~V}, 2 \mathrm{~W}\) & DL1CE024 \\
\cline { 2 - 3 } & \(120-130 \mathrm{~V}, 2.4 \mathrm{~W}\) & DL1CE130 \\
\hline \multirow{2}{*}{ Neon bulbs } & \(120-130 \mathrm{~V}, 1.8 \mathrm{~mA}\) & DL1CF110 \\
\cline { 2 - 3 } & \(230-240 \mathrm{~V}, 1,8 \mathrm{~mA}\) & DL1CF220 \\
\hline Bulb extractor & - & XBFX13 \\
\hline Lens cap tightening tool & Illuminated push buttons with flush push & ZBZ8 \\
\hline \begin{tabular}{l} 
Power driver bits for mounting and wiring \\
(package of 5)
\end{tabular} & Cross headed screw (POZIDRIV type 1) & ZB4BZ905 \\
\hline Mounting Adapter & For mounting 22 mm push button in 30 mm KO & ZBZ41 \\
\hline
\end{tabular}

Table 19.185: Bellows Seals for Harsh Environments (IP 69K) [85]
\begin{tabular}{|c|c|c|c|c|}
\hline Description & For use with & Color \& Material & Sold in Lots of & Catalog Number \\
\hline \multirow[b]{3}{*}{Bellows seals for harsh environments (Humidity, dust, high-pressure cleaning)} & \multirow[b]{3}{*}{Any Harmony XB4 metal, mushroom head push button \(\varnothing 40 \mathrm{~mm}\) or \(\varnothing 60 \mathrm{~mm}\) (except ZB4BR•16)} & Red
Silicone & 2 & ZBZ48 \\
\hline & & Black EPDM & 2 & ZBZ28 \\
\hline & & Black EPDM & 2 & ZBZ58 \\
\hline
\end{tabular}
[79] Sold in lots of 10 .
[80] Set of 10 different caps: white, black, green, red, yellow, blue, white "l" on green background, black "l" on white background, white "O" on red background, white " O " on black background.
[81] Standard circular legends are not compatible with this product. Use special legends ZBY•T listed above.
[82] For additional information, refer to publication 9001DB0601R6/06.
[83] Maximum panel thickness is 2.5 mm .
[84] Mounting nut included with blanking plug.
[85] Only when mounted on control stations. Use special legends ZBY••T.
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Table 19.186: Boot for Standard Selector Switch Handle
\begin{tabular}{|c|c|c|}
\hline Description For use with \(^{\text {a }}\) & For use with & Catalog Number \\
\hline Boot for standard handle \(\quad\) ZB4BD•• & ZB4BD•• & ZBD D2 \\
\hline \multicolumn{3}{|l|}{Table 19.187: Replacement Keys} \\
\hline Description & Key Number & Catalog Number \\
\hline \multirow{5}{*}{Set of 2 keys} & 455 & ZBG455 \\
\hline & 421E & ZBG421E \\
\hline & 458A & ZBG458A \\
\hline & 520E & ZBG520E \\
\hline & 3131A & ZBG3131A \\
\hline \multirow{5}{*}{\begin{tabular}{l}
Set of 2 keys, \\
One of which is supplied booted (rubber boot)
\end{tabular}} & 455 & ZBG455P \\
\hline & 421E & ZBG421EP \\
\hline & 458A & ZBG458AP \\
\hline & 520E & ZBG520EP \\
\hline & 3131A & ZBG3131AP \\
\hline
\end{tabular}
Table 19.188: Clear Boots
\begin{tabular}{l|l|l|c}
\multirow{3}{*}{ Description } & For use with & \multirow{3}{l}{ Material } & Catalog Number \\
\cline { 1 - 2 } Single boots & Booted push buttons with circular head & & ZBPA \\
\cline { 2 - 2 } & \begin{tabular}{l} 
Booted push buttons with circular head used in food \\
industry applications
\end{tabular} & \multirow{3}{*}{ Silicone } & ZBP0A \\
\hline \multirow{2}{*}{ Double boots } & Double-headed push buttons, two flush & & ZBA708 \\
\cline { 2 - 2 } & Double-headed push buttons, one flush + one projecting & & ZBA710 \\
\hline Triple boot & Triple-headed push buttons, two flush + one projecting & & ZBA709 \\
\hline
\end{tabular}
Table 19.189: Lens Caps
\begin{tabular}{|c|c|c|}
\hline For use with & Color & Catalog Number \\
\hline \multicolumn{3}{|l|}{Lens caps for Protected LED \({ }^{\text {TM }}\) light modules} \\
\hline Pilot lights & White Green Red Yellow Blue & \[
\begin{aligned}
& \text { ZBV0113 } \\
& \text { ZBV0133 } \\
& \text { ZBV0143 } \\
& \text { ZBV0153 } \\
& \text { ZBV0163 } \\
& \hline
\end{aligned}
\] \\
\hline Illuminated push buttons with flush push & White Green Red Yellow Blue & \begin{tabular}{l}
ZBW9113 \\
ZBW9133 \\
ZBW9143 \\
ZBW9153 \\
ZBW9163
\end{tabular} \\
\hline Illuminated push buttons with extended push & White Green Red Yellow Blue & ZBW9313
ZBW9333
ZBW9343
ZBW9353
ZBW9363 \\
\hline \multicolumn{3}{|l|}{Lens caps for BA9 light modules} \\
\hline Pilot lights & White Green Red Yellow Blue Clear & \begin{tabular}{l}
ZBV011 \\
ZBV013 \\
ZBV014 \\
ZBV015 \\
ZBV016 \\
ZBV017
\end{tabular} \\
\hline Illuminated push buttons with flush push & White Green Red Yellow Blue Clear & \begin{tabular}{l}
ZBW911 \\
ZBW913 \\
ZBW914 \\
ZBW915 \\
ZBW916 \\
ZBW917
\end{tabular} \\
\hline Illuminated push buttons with extended push & \begin{tabular}{l}
White \\
Green Red Yellow Blue Clear
\end{tabular} & \begin{tabular}{l}
ZBW931 \\
ZBW933 \\
ZBW934 \\
ZBW935 \\
ZBW936 \\
ZBW937
\end{tabular} \\
\hline \multicolumn{3}{|l|}{Square lens caps for Protected LED light modules (ZB5C operators only)} \\
\hline Pilot lights & White Green Red Yellow Blue & \begin{tabular}{l}
ZBCV0113 \\
ZBCV0133 \\
ZBCV0143 \\
ZBCV0153 \\
ZBCV0163
\end{tabular} \\
\hline Illuminated push buttons with flush push & White Green Red Yellow Blue & \begin{tabular}{l}
ZBCW9113 \\
ZBCW9133 \\
ZBCW9143 \\
ZBCW9153 \\
ZBCW9163
\end{tabular} \\
\hline Illuminated push buttons with extended push & White Green Red Yellow Blue & \begin{tabular}{l}
ZBCW9313 \\
ZBCW9333 \\
ZBCW9343 \\
ZBCW9353 \\
ZBCW9363
\end{tabular} \\
\hline
\end{tabular}
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Nem.) XB5R Plastic and XB4R Metal Wireless, Batteryless Push Buttons
Table 19.190: Ready-to-use Packs [86]

\begin{tabular}{l|l|l|l|l} 
Description & Transmitter Type & \begin{tabular}{l} 
Voltage \\
Receiver \\
V
\end{tabular} & Receiver Type
\end{tabular}

Table 19.191: Transmitter Components for Wireless, Batteryless Push Buttons


ZBRT1


ZB4RZA0

\begin{tabular}{|c|c|c|c|}
\hline Description & Type of Push & Cap Color & Catalog Number \\
\hline \multirow[b]{2}{*}{Transmitter for wireless, batteryless push buttons [91] [92]} & 1 radio frame sent at the push of the button & - & ZBRT1 \\
\hline & Dual Action: 1 radio frame sent at the push of the button 1 radio frame sent at therelease of the button & - & ZBRT2 \\
\hline \multirow[t]{2}{*}{Spring return push button heads for transmitter ZBRT1} & Plastic & Without cap [93] & ZB5RZA0 \\
\hline & Metal & Without cap [93] & ZB4RZA0 \\
\hline \multirow{16}{*}{\begin{tabular}{l}
Wireless, batteryless push buttons including: \\
- a transmitter fitted with mounting collar - a spring return push button head with clipped-in cap [94]
\end{tabular}} & \multirow{8}{*}{Plastic} & White & ZB5RTA1 \\
\hline & & Black & ZB5RTA2 \\
\hline & & Green & ZB5RTA3 \\
\hline & & Green with white " \({ }^{\text {] }}\) & ZB5RTA331 \\
\hline & & Red & ZB5RTA4 \\
\hline & & Red with white "O" & ZB5RTA432 \\
\hline & & Yellow & ZB5RTA5 \\
\hline & & Blue & ZB5RTA6 \\
\hline & \multirow{8}{*}{Metal} & White & ZB4RTA1 \\
\hline & & Black & ZB4RTA2 \\
\hline & & Green & ZB4RTA3 \\
\hline & & Green with white "l" & ZB4RTA331 \\
\hline & & Red & ZB4RTA4 \\
\hline & & Red with white "O" & ZB4RTA432 \\
\hline & & Yellow & ZB4RTA5 \\
\hline & & Blue & ZB4RTA6 \\
\hline
\end{tabular}
[86] Wireless and batteryless push button and receiver, factory-paired.
[87] For additional components, these devices can be field-paired.
[88] Supplied with output function set to momentary. Outputs programmable to maintained and Start-Stop.
[89] Non-programmable momentary output function.
[90] Supplied with a magnet.
[91] Mounting collar ZB5AZ009 (plastic) or ZB4BZ009 (metal) to be ordered separately.
[92] Only heads ZB4RZA0 and ZB5RZA0 are mechanically compatible.
[93] Cap to be ordered separately: see Caps for Harmony Push Button Heads ZB5RZA0 and ZB4RZA0.
[94] This cap is fitted by Schneider Electric and cannot be removed (risk of damage).


ZBRRA


Refer to Catalog DIA5ED2121213EN

Table 19.192: Programmable Receivers
\begin{tabular}{|c|c|c|c|}
\hline Description & Output Type & Voltage Receiver V & \begin{tabular}{l}
Catalog \\
Number
\end{tabular} \\
\hline \multirow[t]{3}{*}{\begin{tabular}{l}
Programmable receivers equipped with: \\
-2 buttons ("Scroll-through", \\
"Ok") \\
- 6 indicating LEDs (power ON, outputs, signal strength)
\end{tabular}} & 4 PNP outputs, \(200 \mathrm{~mA} / 24 \mathrm{~V}\) & --74 & ZBRRC \\
\hline & 2 relay outputs type
RT \(3 A\) [95] RT 3A [95] & \[
\widetilde{24 \text { to } 240}
\] & ZBRRD \\
\hline & 2 relay outputs type RT 3A [95] & \[
\begin{gathered}
\sim /--1 \\
24 \text { to } 240
\end{gathered}
\] & ZBRRA \\
\hline
\end{tabular}

NOTE: Also refer to Access Point for advanced features in programmable receivers.

Table 19.193: Caps for Harmony Push Button Heads ZB5RZA0 and ZB4RZA0
\begin{tabular}{|c|c|c|c|c|}
\hline Description & Background Color & Marking & Sold in lots of & Catalog Number \\
\hline \multirow{18}{*}{Sets of 10 different colored caps with identical marking [96]} & \multirow{4}{*}{White} & Without & 10 & ZBA71 \\
\hline & & "I" (black) & 10 & ZBA7131 \\
\hline & & " \(\uparrow\) " (black) & 10 & ZBA7134 \\
\hline & & "+" (black) & 10 & ZBA7138 \\
\hline & \multirow{5}{*}{Black} & Without & 10 & ZBA72 \\
\hline & & "O" (white) & 10 & ZBA7232 \\
\hline & & "+" (white) & 10 & ZBA7233 \\
\hline & & " \({ }^{\text {y }}\) ( white) & 10 & ZBA7235 \\
\hline & & "I" (white) & 10 & ZBA7237 \\
\hline & \multirow{5}{*}{Green} & Without & 10 & ZBA73 \\
\hline & & "l" (white) & 10 & ZBA7331 \\
\hline & & "+" (white) & 10 & ZBA7333 \\
\hline & & " f " white & 10 & ZBA7335 \\
\hline & & "II" (white) & 10 & ZBA7336 \\
\hline & \multirow[t]{2}{*}{Red} & Without & 10 & ZBA74 \\
\hline & & "O" (white) & 10 & ZBA7432 \\
\hline & Yellow & Without & 10 & ZBA75 \\
\hline & Blue & Without & 10 & ZBA76 \\
\hline Set of 10 different colored caps with different markings [96] & \multicolumn{2}{|l|}{White, black, green, red, yellow, blue, white "I" on green background, black "l" on white background, white " O " on red background, white "O" on black background} & 10 & ZBA79 \\
\hline
\end{tabular}

Table 19.194: Boxes for Wireless, Batteryless Push Buttons
\begin{tabular}{|c|c|c|c|c|}
\hline Description & For use with: & Marking & Sold in lots of & Catalog Number \\
\hline \multirow[b]{3}{*}{Mobile box, plastic, empty [97]} & \multirow[t]{2}{*}{For mobile and fixed applications with wireless and batteryless push buttons} & 1 cut-out & 1 & ZBRM21 \\
\hline & & 2 cut-outs & 1 & ZBRM22 \\
\hline & Support for tube or wall specific for ZBRM21 and ZBRM22 & - & 1 & ZBRACS \\
\hline \multirow[t]{2}{*}{Empty plastic boxes for wireless and batteryless pushbuttons [98]} & \multirow[t]{2}{*}{For fixed or on-board wireless and batteryless pushbuttons} & 1 cut-out & 1 & XALD01H7 \\
\hline & & 2 cut-outs & 1 & XALD02H7 \\
\hline
\end{tabular}

New.) XB5R and XB4R Accessories
Table 19.195: Accessories
\begin{tabular}{|c|c|c|c|c|}
\hline Description & For use with: & Marking & Sold in lots of & Catalog Number \\
\hline External antenna [99] & Between transmitter and receiver, used to increase the range and/or get around obstacles & \[
\begin{array}{|l|}
\hline \sim / \overline{--} \\
24 \text { to } 240 \mathrm{~V} \\
-5 \mathrm{~m} \text { cable } \\
-1 \text { power-ON LED } \\
-2 \text { LEDDs } \\
\text { reception/transmission } \\
\hline
\end{array}
\] & 1 & ZBRA1 \\
\hline \multirow[t]{2}{*}{Mounting collar} & \multirow[t]{2}{*}{-} & Plastic & 10 & ZB5AZ009 \\
\hline & & Metal & 10 & ZB4BZ009 \\
\hline Legend plate, \(27 \times 8 \mathrm{~mm}\), for engraving & For adhering to handy box ZBRM01 & Self-adhesive, blank, black background & 10 & ZBY0101T \\
\hline \begin{tabular}{l}
External antenna access point \\
\(2 \mathrm{~m} / 6.56 \mathrm{ft}\) cable with 1 RF connector
\end{tabular} & \multicolumn{3}{|l|}{Access point (ZBRN1 or ZBRN2) Used to increase the distance of transmission} & ZBRA2 \\
\hline
\end{tabular}

\section*{Batteryless Push Buttons}

Refer to Catalog DIA5ED2121213EN
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New.) ZBRN1 and ZBRN2 Access Points
The access point of Harmony wireless and batteryless range provides network connectivity openness by operating as an intermediate equipment between the transmiter and the PLC (Programmable Logic Controller). The access point receives radio signals from the transmitters and converts them to communication protocols. Based on the model, it is connected to the PLC using either RS485 Modbus Serial line or Modbus/TCP protocol.
The access point can be used with transmitters such as XB4R and XB5R wireless and batteryless push buttons, rope pull switch, mushroom head pushbutton (1), and all PLCs that support Modbus Serial line over RS485 or Modbus/TCP protocols.
Depending on the application, an external or a relay antenna can be used to improve signal reception. An access point can support up to 60 radio transmitters

Table 19.196: Configurable Access Points
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline Description & & ata Function & Outp & Type & Receiver Volta (V) & Catalog Number \\
\hline \multirow[t]{2}{*}{\begin{tabular}{l}
Configurable access points equipped with: \\
- 7-segment display \\
- jog dial \\
- 8 indicating LEDs (power ON, functions mode, communication status, signal strength) - external antenna connector and protective plug
\end{tabular}} & \multicolumn{2}{|l|}{Monostable (adjustable from 100 ms to 1 s )} & \[
\begin{array}{r}
2 \text { RS485 } \\
\text { that pI } \\
\text { connec } \\
\text { Modbu } \\
\text { Seria }
\end{array}
\] & \begin{tabular}{l}
nnectors ides ity for S485 \\
ine
\end{tabular} & \[
\widetilde{(\overline{---}}
\] & ZBRN2 \\
\hline & \multicolumn{2}{|l|}{Monostable (adjustable from 100 ms to 1 s )} & \multicolumn{2}{|l|}{1 slot for communication module ZBRCETH (should be ordered separately)} & \[
\widetilde{24 \text { to } 240}
\] & ZBRN1 \\
\hline \multicolumn{7}{|l|}{Table 19.197: Communication Module} \\
\hline \multicolumn{2}{|l|}{Description} & \multicolumn{2}{|l|}{Characteristics} & \multicolumn{2}{|l|}{Communication Port} & Catalog Number \\
\hline \multicolumn{2}{|l|}{Modbus/TCP network communication module} & \multicolumn{2}{|l|}{Modbus/TCP protocol with embedded Web pages in 5 languages for configuration, monitoring and diagnostics} & \multicolumn{2}{|l|}{2 RJ45 connectors that provides connectivity for daisy chain and daisy chain loop operation} & ZBRCETH \\
\hline
\end{tabular}


Stand-alone biometric switch (XB5S1/XB5S2)


Stand-alone USB biometric switch (XB5S3/XB5S4)


USB biometric switch dedicated to Schneider HMI (XB5S5)

\section*{Biometric Switches}

The biometric switches of the Harmony® XB5S range are designed to control and secure access to systems and machines by checking users' authorization through fingerprint recognition.
The following types of biometric switches are available:
- Stand-alone biometric switches
- type XB5S1, with 2 fixed states (bistable)
- type XB5S2, with pulse control (monostable)
- Stand-alone USB biometric switches
- type XB5S3, with 2 fixed states (bistable)
- type XB5S4, with pulse control (monostable)
- USB biometric switches dedicated to Schneider HMI
- type XB5S5, connected permanently with HMI

The biometric switches are aimed at 2 categories:
- Administrators, who decide and manage the list of users
- the only people who can record the fingerprints in the device memory
- Users, who are authorized to use the biometric switch as a control unit
- at least 1 of their fingerprints should be recorded in the device memory
- access is granted when the finger is placed on the sensing screen

The USB switches communicate with the PC/HMI via the USB port to manage the user database. This database can be visualized, saved, and duplicated by PC/HMI with XB5SSoft application [100] [101]. The fingerprint records can also be erased in the absence of users.
The Schneider HMI [102] with VijeoDesigner software [103] enables the switches to authorize different access levels and trace HMI operations of each user.
The switch operates on 24 Vdc and provides protection against:
- Reverse polarity
- Overload and short-circuit (switching capacity \(\leq 200 \mathrm{~mA}\) )

\section*{Mounting}

The product is of monolithic design (a single plastic housing) and is mounted by means of a nut (hand-tightened without need for tools) in a standard \(22.5 \mathrm{~mm} / 0.886\) in. diameter hole. It can be installed on a flat, horizontal, or vertical surface.
A protective cover is available as an accessory to protect the active face of the sensing screen. This cover is mounted using a self-adhesive hinge.
A Female/Female USB extension cable makes it possible for the USB biometric switch to have the female USB port within a \(22 \mathrm{~mm} / 0.866 \mathrm{in}\). diameter hole on the control panel front.

\section*{Environment}
- Conformity to standards: UL, CSA, GOST, and CE
- Product certifications:
- CSA C22-2 No. 14
- UL 508
- IEC 61000-6-2 and IEC 61000-6-4
- Degree of protection conforming to standard IEC 60529:
- IP 65
- NEMA 12
- Ambient air temperature:
- For storage: -13 to \(158^{\circ} \mathrm{F}\left(-25\right.\) to \(\left.70^{\circ} \mathrm{C}\right)\)
- For operation: 23 to \(122^{\circ} \mathrm{F}\left(-5\right.\) to \(\left.50^{\circ} \mathrm{C}\right)\)

\footnotetext{
[100] Compatible with all versions of Harmony XB5SSoft application. The XB5SSoft is a freeware application and can be downloaded from our website www.schneider-electric.com
[101] The user database cannot be uploaded from USB biometric switch to the PC.
[102] Compatible with Magelis iPC, STU, OT, GXO, GT (except GT1000 series), GK, GH, and GTO models .
[103] Compatible with VijeoDesigner HMI editor software V6.1, Service pack 2.
}


\section*{Description}
- The stand-alone biometric switch (XB5S1/XB5S2) consists of a dark gray housing, with the following on its front face:
- A sensing screen 1 that allows the registration and subsequent recognition of the registered fingerprints,
- A green LED output state indicator 2 that illuminates when the output is activated (solid-state N.O. contact),
- An orange LED 3, indicating an administrator's "Registration" mode,
- An orange LED 4, indicating an operator's "Registration" mode,
- A red "RESET" LED 5 which indicates, in "Delete" mode, that the administrator is deleting all or part of the memory,
- A red LED 6 which flashes when the reader is presented with an "unrecognized" fingerprint or in the event of incorrect operation.
- The stand-alone USB biometric switch (XB5S3/XB5S4) consists of a dark gray housing with a sensing screen 1 for fingerprints, a green LED 2 for indicating the output state, and a red LED 6 for the unrecognized fingerprint on its front face.
- The USB biometric switch dedicated to Schneider HMI (XB5S5) consists of a dark gray housing with a sensing screen 1 for fingerprints on its front face.
Table 19.198: Biometric Switch Catalog Numbers


XB5S1B••••


XB5S3B••••


ZB5SZ72
\begin{tabular}{|c|c|c|}
\hline Description & Connection & Catalog Number \\
\hline \multirow[t]{2}{*}{\begin{tabular}{l}
Bistable biometric switch 24 V DC \\
PNP output
\end{tabular}} & By \(2 \mathrm{~m} / 6.56 \mathrm{ft} \mathrm{cable}\) & XB5S1B2L2 \\
\hline & By M12 connector & XB5S1B2M12 \\
\hline \multirow[t]{2}{*}{\begin{tabular}{l}
Monostable biometric switch 24 V DC \\
PNP output
\end{tabular}} & By \(2 \mathrm{~m} / 6.56 \mathrm{ft} \mathrm{cable}\) & XB5S2B2L2 \\
\hline & By M12 connector & XB5S2B2M12 \\
\hline \multirow[t]{2}{*}{\[
\begin{aligned}
& \hline \text { Bistable USB biometric switch } \\
& 24 \mathrm{~V} \mathrm{DC} \\
& \text { PNP output } \\
& \hline
\end{aligned}
\]} & By \(2 \mathrm{~m} / 6.56 \mathrm{ft} \mathrm{cable}\) & XB5S3B2L2 \\
\hline & By M12 connector & XB5S3B2M12 \\
\hline \multirow[t]{2}{*}{```
Monostable USB biometric
switch
24 V DC
PNP output
```} & By \(2 \mathrm{~m} / 6.56 \mathrm{ft} \mathrm{cable}\) & XB5S4B2L2 \\
\hline & By M12 connector & XB5S4B2M12 \\
\hline USB biometric switch dedicated to Schneider HMI 24 V DC & By \(2 \mathrm{~m} / 6.56 \mathrm{ft} \mathrm{cable}\) & XB5S5B2L2 \\
\hline
\end{tabular}

Table 19.199: Accessories
\begin{tabular}{l|l|c}
\multicolumn{1}{c}{ Table 19.199: Accessories } & \multicolumn{1}{c}{ Function } & Catalog Number \\
\begin{tabular}{l} 
Protective cover, translucent and \\
self-adhesive
\end{tabular} & Protection of sensing screen & ZB5SZ70 \\
\hline Mounting nut, \(\varnothing 22 \mathrm{~mm} / 0.866 \mathrm{in}\). & Spare part & ZB5SZ71 \\
\hline \begin{tabular}{l} 
Legend plate, \(27 \times 8 \mathrm{~mm} / 1.06 \times 0.32\) \\
in., self-adhesive, blank, black \\
background, for engraving
\end{tabular} & - & ZBY0101T \\
\hline Stainless-steel protective cover & \begin{tabular}{l} 
Protects switch from outside \\
elements and vandalism
\end{tabular} & ZB5SZ72 \\
\hline
\end{tabular}

\section*{New!) XB7 Push Buttons}

Table 19.200: Push Buttons Without Marking


XB7NA31


XB7NL4•


XB7NH2•


XB7NA3133


XB7NA4234


XB7NL4232
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of Head} & \multirow[t]{2}{*}{Type of Push Button} & \multicolumn{2}{|l|}{Type of Contact} & \multicolumn{2}{|c|}{Marking} & \multirow[t]{2}{*}{Color of Push Button} & \multirow[t]{2}{*}{Sold in Lots of} & \multirow[b]{2}{*}{Catalog Number} \\
\hline & & N.O. & N.C. & Text & Color & & & \\
\hline \multicolumn{9}{|l|}{Spring return push button without marking} \\
\hline \multirow{14}{*}{} & \multirow{14}{*}{Flush} & 1 & - & - & - & White & 10 & XB7NA11 \\
\hline & & 1 & - & - & - & Black & 10 & XB7NA21 \\
\hline & & 1 & - & - & - & Green & 10 & XB7NA31 \\
\hline & & 1 & - & - & - & Yellow & 10 & XB7NA81 \\
\hline & & 1 & 1 & - & - & White & 10 & XB7NA15 \\
\hline & & 1 & 1 & - & - & Black & 10 & XB7NA25 \\
\hline & & 1 & 1 & - & - & Green & 10 & XB7NA35 \\
\hline & & 1 & 1 & - & - & Red & 10 & XB7NA45 \\
\hline & & 1 & 1 & - & - & Blue & 10 & XB7NA65 \\
\hline & & 1 & 1 & - & - & Yellow & 10 & XB7NA85 \\
\hline & & - & 1 & - & - & Red & 10 & XB7NA42 \\
\hline & & 2 & - & - & - & Black & 10 & XB7NA23 \\
\hline & & 2 & - & - & - & Green & 10 & XB7NA33 \\
\hline & & - & 2 & - & - & Red & 10 & XB7NA44 \\
\hline \multirow[t]{3}{*}{} & \multirow{3}{*}{Projecting} & - & 1 & - & - & Red & 10 & XB7NL42 \\
\hline & & 1 & 1 & - & - & Red & 10 & XB7NL45 \\
\hline & & - & 2 & - & - & Red & 10 & XB7NL44 \\
\hline \multicolumn{9}{|l|}{Latching push button without marking} \\
\hline \multirow[t]{5}{*}{} & \multirow[t]{5}{*}{Flush} & 1 & - & - & - & Black & 10 & XB7NH21 \\
\hline & & 1 & - & - & - & Green & 10 & XB7NH31 \\
\hline & & 1 & 1 & - & - & Black & 10 & XB7NH25 \\
\hline & & 1 & 1 & - & - & Green & 10 & XB7NH35 \\
\hline & & 1 & - & - & - & Yellow & 10 & XB7NH81 \\
\hline
\end{tabular}

Table 19.201: Push Buttons With Marking
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of Head} & \multirow[t]{2}{*}{Type of Push Button} & \multicolumn{2}{|l|}{Type of Contact} & \multicolumn{2}{|c|}{Marking} & \multirow[t]{2}{*}{Color of Push Button} & \multirow[t]{2}{*}{Sold in Lots of} & \multirow[b]{2}{*}{Catalog Number} \\
\hline & & N.O. & N.C. & Text & Color & & & \\
\hline \multicolumn{9}{|l|}{Spring return push button with marking} \\
\hline \multirow{18}{*}{} & \multirow{18}{*}{Flush} & 1 & - & 1 & White & Green & 10 & XB7NA3131 \\
\hline & & 1 & - & II & White & Green & 10 & XB7NA3136 \\
\hline & & 1 & - & START & White & Green & 10 & XB7NA3133 \\
\hline & & 1 & - & \(\downarrow\) & Black & White & 10 & XB7NA11343 \\
\hline & & 1 & - & \(\uparrow\) & Black & White & 10 & XB7NA11341 \\
\hline & & 1 & - & , & White & Black & 10 & XB7NA21343 \\
\hline & & 1 & - & 介 & White & Black & 10 & XB7NA21341 \\
\hline & & - & 1 & 0 & White & Red & 10 & XB7NA4232 \\
\hline & & - & 1 & STOP & White & Red & 10 & XB7NA4234 \\
\hline & & 2 & - & 1 & White & Green & 10 & XB7NA3331 \\
\hline & & 2 & - & II & White & Green & 10 & XB7NA3336 \\
\hline & & 2 & - & START & White & Green & 10 & XB7NA3333 \\
\hline & & 1 & 1 & O & White & Red & 10 & XB7NA4532 \\
\hline & & 1 & 1 & STOP & White & Red & 10 & XB7NA4534 \\
\hline & & 1 & 1 & \(\downarrow\) & Black & White & 10 & XB7NA15343 \\
\hline & & 1 & 1 & \(\dagger\) & Black & White & 10 & XB7NA15341 \\
\hline & & 1 & 1 & , & White & Black & 10 & XB7NA25343 \\
\hline & & 1 & 1 & 介 & White & Black & 10 & XB7NA25341 \\
\hline \multirow{4}{*}{} & \multirow{4}{*}{Projecting} & - & 1 & 0 & White & Red & 10 & XB7NL4232 \\
\hline & & - & 1 & STOP & White & Red & 10 & XB7NL4234 \\
\hline & & 1 & 1 & 0 & White & Red & 10 & XB7NL4532 \\
\hline & & 1 & 1 & STOP & White & Red & 10 & XB7NL4534 \\
\hline
\end{tabular}


XB7NW33•1


XB7NW3361

Now. XB7 Illuminated Push Buttons with Projecting Push
Table 19.202: With Integral LED
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of head} & \multirow[t]{2}{*}{Type of push and contacts} & \multirow[t]{2}{*}{Color of lens} & \multirow[t]{2}{*}{Sold in lots of} & \multicolumn{3}{|l|}{Unit reference by supply voltage [104]} \\
\hline & & & & \(24 \mathrm{~V} \sim\) & 120 V ~ & 230 V \\
\hline \multirow{14}{*}{\(\square\)} & \multirow{7}{*}{Spring return push with N.O. and N.C. contacts [104]} & Green & 10 & XB7NW33B1 & XB7NW33G1 & XB7NW33M1 \\
\hline & & \multirow[t]{2}{*}{Red} & 10 & XB7NW34B1 & XB7NW34G1 & XB7NW34M1 \\
\hline & & & 10 & XB7NW34B2 & XB7NW34G2 & XB7NW34M2 \\
\hline & & Orange & 10 & XB7NW35B1 & XB7NW35G1 & XB7NW35M1 \\
\hline & & Blue & 10 & XB7NW36B1 & XB7NW36G1 & XB7NW36M1 \\
\hline & & Clear & 10 & XB7NW37B1 & XB7NW37G1 & XB7NW37M1 \\
\hline & & Yellow & 10 & XB7NW38B1 & XB7NW38G1 & XB7NW38M1 \\
\hline & \multirow{7}{*}{Latching push} & Green & 10 & XB7NJ03B1 & XB7NJ03G1 & XB7NJ03M1 \\
\hline & & \multirow[t]{2}{*}{Red} & 10 & XB7NJ04B1 & XB7NJ04G1 & XB7NJ04M1 \\
\hline & & & 10 & XB7NJ04B2 & XB7NJ04G2 & XB7NJ04M2 \\
\hline & & Orange & 10 & XB7NJ05B1 & XB7NJ05G1 & XB7NJ05M1 \\
\hline & & Blue & 10 & XB7NJ06B1 & XB7NJ06G1 & XB7NJ06M1 \\
\hline & & Clear & 10 & XB7NJ07B1 & XB7NJ07G1 & XB7NJ07M1 \\
\hline & & Yellow & 10 & XB7NJ08B1 & XB7NJ08G1 & XB7NJ08M1 \\
\hline
\end{tabular}

Table 19.203: With BA 9s Base Fitting [105]
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of head} & \multirow[t]{2}{*}{Type of push} & \multicolumn{2}{|l|}{Type of contact} & \multirow[t]{2}{*}{Color of lights} & \multirow[b]{2}{*}{Sold in lots of} & \multirow[t]{2}{*}{Catalog Number
250 V} \\
\hline & & N.O. & N.C. & & & \\
\hline \multirow{12}{*}{\(\square\)} & \multirow{6}{*}{Spring return} & 1 & - & Green & 10 & XB7NW3361 \\
\hline & & 1 & - & Red & 10 & XB7NW3461 \\
\hline & & 1 & - & Orange & 10 & XB7NW3561 \\
\hline & & 1 & - & Blue & 10 & XB7NW3661 \\
\hline & & 1 & - & Clear & 10 & XB7NW3761 \\
\hline & & 1 & - & Yellow & 10 & XB7NW3861 \\
\hline & \multirow{6}{*}{Latching} & 1 & - & Green & 10 & XB7NJ0361 \\
\hline & & 1 & - & Red & 10 & XB7NJ0461 \\
\hline & & 1 & - & Orange & 10 & XB7NJ0561 \\
\hline & & 1 & - & Blue & 10 & XB7NJ0661 \\
\hline & & 1 & - & Clear & 10 & XB7NJ0761 \\
\hline & & 1 & - & Yellow & 10 & XB7NJ0861 \\
\hline
\end{tabular}

New!) XB7 Pilot Lights
Table 19.204: With Integral LED


XB7EV08•P


XB7EV75P
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of head} & \multirow[t]{2}{*}{\[
\begin{aligned}
& \text { Type of light } \\
& \text { source } \\
& \text { (included) }
\end{aligned}
\]} & \multirow[b]{2}{*}{Color of lens} & \multirow[t]{2}{*}{Sold in lots of} & \multicolumn{3}{|l|}{Catalog Number by supply voltage [106]} \\
\hline & & & & \(24 \mathrm{~V} \sim / \ldots\) & 120 V ~ & 230 V ~ \\
\hline \multirow{6}{*}{} & \multirow{6}{*}{Integral LED} & Green & 10 & XB7EV03BP & XB7EV03GP & XB7EV03MP \\
\hline & & Red & 10 & XB7EV04BP & XB7EV04GP & XB7EV04MP \\
\hline & & Yellow & 10 & XB7EV05BP & XB7EV05GP & XB7EV05MP \\
\hline & & Blue & 10 & XB7EV06BP & XB7EV06GP & XB7EV06MP \\
\hline & & Clear & 10 & XB7EV07BP & XB7EV07GP & XB7EV07MP \\
\hline & & Orange & 10 & XB7EV08BP & XB7EV08GP & XB7EV08MP \\
\hline
\end{tabular}

Table 19.205: With BA 9s base fitting
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of head} & \multirow[t]{2}{*}{Supply} & \multirow[t]{2}{*}{Color of lens} & \multirow[t]{2}{*}{Sold in lots of} & \multicolumn{2}{|c|}{Catalog Number[106]} \\
\hline & & & & With bulb & Without bulb \\
\hline \multirow{12}{*}{} & \multirow[t]{6}{*}{\begin{tabular}{l}
With resistor, for 130 V, 2.6 W bulb \\
Supply voltage: \\
230 V ~,
\[
50-60 \mathrm{~Hz}
\]
\end{tabular}} & Green & 10 & XB7EV73P & XB7EV730P \\
\hline & & Red & 10 & XB7EV74P & XB7EV740P \\
\hline & & Yellow & 10 & XB7EV75P & XB7EV750P \\
\hline & & Blue & 10 & XB7EV76P & XB7EV760P \\
\hline & & Clear & 10 & XB7EV77P & XB7EV770P \\
\hline & & Orange & 10 & XB7EV78P & XB7EV780P \\
\hline & \multirow[t]{6}{*}{\begin{tabular}{l}
Direct for BA 9s base fitting incandescent bulb \\
Supply voltage: \\
\(\leq 250 \mathrm{~V}\) [107]
\end{tabular}} & Green & 10 & - & XB7EV63P \\
\hline & & Red & 10 & - & XB7EV64P \\
\hline & & Yellow & 10 & - & XB7EV65P \\
\hline & & Blue & 10 & - & XB7EV66P \\
\hline & & Clear & 10 & - & XB7EV67P \\
\hline & & Orange & 10 & - & XB7EV68P \\
\hline
\end{tabular}

\footnotetext{
[104] All product references ending in "1" are for products with "NO" contacts (example: XB7NW34B1). All product references ending in " 2 " are for products with "NC" contacts (example XB7NW34B2).
[105] Bulb, 1.2 W maximum, to be ordered separately
[106] For Faston connection version ( \(1 \times 6.35 \mathrm{~mm}\) and \(2 \times 2.8 \mathrm{~mm}\) ), add the number " 3 " to the end of the reference. Example: XB7EV07BP becomes XB7EV07BP3. [107] Bulb characteristics for direct supply pilot lights: \(250 \mathrm{~V}, 2.6 \mathrm{~W}\).
}
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XB7 Selector Switches and Key Switches
Table 19.206: Title
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of head} & \multirow[t]{2}{*}{Type of operator} & \multicolumn{2}{|l|}{Type of contact} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Number and type of positions}} & \multirow[t]{2}{*}{Sold in lots of} & \multirow[t]{2}{*}{\begin{tabular}{l}
Catalog \\
Number
\end{tabular}} \\
\hline & & N.O. & N.C. & & & & \\
\hline \multirow{3}{*}{} & \multirow{3}{*}{Standard handle, black} & 1 & - & 2, maintained & & 10 & XB7ND21 \\
\hline & & 1 & 1 & 2, maintained & & 10 & XB7ND25 \\
\hline & & 2 & - & 3, maintained & & 10 & XB7ND33 \\
\hline \multirow[t]{2}{*}{} & \multirow[b]{2}{*}{Key (key No. 455)} & 1 & - & 2, key withdrawal in LH position & & 10 & XB7NG21 \\
\hline & & 2 & - & 3, key withdrawal in center position & & 10 & XB7NG33 \\
\hline
\end{tabular}

NOTE: The symbol 8 indicates key withdrawal position(s).
New!
XB7 Mushroom Head Push Buttons
Table 19.207: Ø 40 mm Emergency Stop Trigger Action and Mechanically Latching Mushroom Head Pushbuttons
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Shape of head} & \multirow[t]{2}{*}{Type of push} & \multirow[t]{2}{*}{Standards} & \multicolumn{2}{|l|}{Type of contact} & \multirow[t]{2}{*}{Color} & \multirow[t]{2}{*}{Sold in lots of} & \multirow[t]{2}{*}{Catalog Numbers} \\
\hline & & & N.O. & N.C. & & & \\
\hline \multirow[t]{3}{*}{} & \multirow{3}{*}{Turn to release} & \multirow{8}{*}{\begin{tabular}{l}
EN/IEC 60204-1, \\
EN/ISO 13850, \\
EN/IEC 60947-5- \\
5 , \\
Machinery \\
directive 2006/42/ \\
EC \\
and UL
\end{tabular}} & - & 1 & Red & 10 & XB7NS8442 \\
\hline & & & 1 & 1 & Red & 10 & XB7NS8445 \\
\hline & & & - & 2 & Red & 10 & XB7NS8444 \\
\hline \multirow[t]{3}{*}{} & \multirow{3}{*}{Push-pull} & & - & 1 & Red & 10 & XB7NT842 \\
\hline & & & 1 & 1 & Red & 10 & XB7NT845 \\
\hline & & & - & 2 & Red & 10 & XB7NT844 \\
\hline & \multirow[b]{2}{*}{Key release ( \(\mathrm{n}^{\circ} 455\) )} & & - & 2 & Red & 10 & XB7NS9444 \\
\hline \(\xrightarrow{3}\) & & & - & 1 & Red & 10 & XB7NS9445 \\
\hline
\end{tabular}

Table 19.208: Circular Legends, Yellow, For Mushroom Head Push Buttons
\begin{tabular}{|c|c|c|c|}
\hline \multicolumn{4}{|l|}{Used for "Emergency Stop" function [108]} \\
\hline Conforming to Standards & Diameter (mm) & Marking on Yellow Background & Catalog Number \\
\hline \multirow{8}{*}{EN/IEC 60204-1 and EN/ISO 13850 [108]} & \multirow{4}{*}{60} & ARRET D'URGENCE & ZBY9130 \\
\hline & & NOT-HALT & ZBY9230 \\
\hline & & PARADA DE EMERGENCIA & ZBY9430 \\
\hline & & ARRESTO DE EMERGENZA & ZBY9630 \\
\hline & \multirow{4}{*}{90} & ARRET D'URGENCE & ZBY8130 \\
\hline & & EMERGENCY STOP & ZBY8330 \\
\hline & & PARADA DE EMERGENCIA & ZBY8430 \\
\hline & & ARRESTO DE EMERGENZA & ZBY8630 \\
\hline
\end{tabular}


ZBY9330


XB7NS84•


ZB5AZ902


ZB5AZ905


DL1CE•••

Nem.)
XB7 Legend Holders and Legends
Table 19.209: Standard ( \(30 \times 40 \mathrm{~mm}\) ) Legend Holders for \(8 \times 27 \mathrm{~mm}\) Legends
\begin{tabular}{l|c|c} 
Text & Sold in lots of & Catalog Number \\
Without legend & 10 & ZBZ32 \\
\hline
\end{tabular}
Table 19.210: Legend Holder, \(30 \times 40 \mathrm{~mm}\) with Legend (black or red background)
\begin{tabular}{|c|c|c|c|}
\hline Text & & Sold in lots of & Catalog Number \\
\hline \multicolumn{4}{|l|}{With blank legend} \\
\hline \multicolumn{2}{|l|}{Without legend} & 10 & ZBY2101 \\
\hline \multicolumn{4}{|l|}{With marked legend (sold singly)} \\
\hline \multicolumn{4}{|l|}{Start functions: White characters on black background. Stop functions: White characters on red background.} \\
\hline Text & Catalog Number & Text & Catalog Number \\
\hline Auto & ZBY2115 & Reset & ZBY2323 \\
\hline Down & ZBY2308 & Reverse & ZBY2306 \\
\hline Forward & ZBY2305 & Right & ZBY2309 \\
\hline Hand & ZBY2316 & Start & ZBY2303 \\
\hline Inch & ZBY2321 & Stop & ZBY2304 \\
\hline Left & ZBY2310 & Up & ZBY2307 \\
\hline Off & ZBY2312 & 0 & ZBY2146 \\
\hline On & ZBY2311 & 1 & ZBY2147 \\
\hline Power on & ZBY2326 & O-I & ZBY2178 \\
\hline
\end{tabular}
Table 19.211: Standard ( \(30 \times 50 \mathrm{~mm}\) ) Legend Holders for \(18 \times 27 \mathrm{~mm}\) Legends
\begin{tabular}{l|c|c} 
Text & Sold in lots of & Catalog Number \\
Without legend & 10 & ZBZ33 \\
\hline
\end{tabular}

\section*{XB7 Accessories}
Table 19.212: XB7 Push Button Accessories
\begin{tabular}{l|l|c|c}
\multicolumn{1}{c|}{ Description } & Color & Sold in lots of & Catalog Number \\
\hline \multirow{4}{*}{ Anti-rotation plate } & - & 10 & ZB5AZ902 \\
\hline Mounting nut & - & 10 & ZB5AZ901 \\
\hline \multirow{3}{*}{\begin{tabular}{l} 
Mounting nut tightening \\
tool
\end{tabular}} & - & 1 & ZB5AZ905 \\
\hline \multirow{3}{*}{\begin{tabular}{l} 
Grooved lenses for BA 9s \\
pilot lights
\end{tabular}} & White & 10 & ZB7EV01 \\
\cline { 2 - 4 } & Green & Red & 10 \\
\cline { 2 - 4 } & Yellow & 10 & ZB7EV03 \\
\cline { 2 - 4 } & Blue & 10 & ZB7EV04 \\
\cline { 2 - 4 } & Clear & 10 & ZB7EV05 \\
\cline { 2 - 4 } & Orange & 10 & ZB7EV06 \\
\hline \multirow{3}{*}{\begin{tabular}{l} 
Plastic circular blanking \\
plug (with mouinting nut)
\end{tabular}} & Black & 10 & ZB7EV07 \\
\hline
\end{tabular}
Table 19.213: BA 9s Bulbs
\begin{tabular}{|c|c|c|c|c|}
\hline Description & Voltage (V) & Power (W) & Sold in lots of & Catalog Number \\
\hline \multirow[t]{3}{*}{Incandescent bulbs, long life Ø 11 mm max. length 28 mm max.} & 6 & 1.2 & 10 & DL1CB006 \\
\hline & 24 & 2.0 & 10 & DL1CE024 \\
\hline & 130 & 2.6 & 10 & DL1CE130 \\
\hline \multirow[b]{2}{*}{Neon bulbs} & 120-130 & - & 10 & DL1CF110 \\
\hline & 230-240 & - & 10 & DL1CF220 \\
\hline
\end{tabular}

Type K Heavy Duty Operators
Class 9001 / Refer to Catalog 9001CT1103
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\section*{Type K Heavy Duty Operators}

Table 19.214: Non-Illuminated Momentary Push Button Operators
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|c|}{Description} & Color & Operator with 1 N.O. and 1 N.C. Contact (KA1) [1] & \begin{tabular}{l}
Operator with \\
1 N.O. Contact \\
(KA2) [1]
\end{tabular} & \begin{tabular}{l}
Operator with \\
1 N.C. Contact \\
(KA3) [1]
\end{tabular} & \[
\begin{aligned}
& \text { Operator Only } \\
& \text { with No } \\
& \text { Contacts [1] }
\end{aligned}
\] \\
\hline \multirow[b]{5}{*}{9001KR1B} & \multirow{5}{*}{Full Guard} & Black & KR1BH13 & KR1BH5 & KR1BH6 & KR1B \\
\hline & & Red & KR1RH13 & KR1RH5 & KR1RH6 & KR1R \\
\hline & & Green & KR1GH13 & KR1GH5 & KR1GH6 & KR1G \\
\hline & & Universal [2] & KR1UH13 & KR1UH5 & KR1UH6 & KR1U \\
\hline & & Other [3] & KR1-H13 & KR1^H5 & KR1•H6 & KR1■ \\
\hline & \multirow{5}{*}{No Guard} & Black & KR3BH13 & KR3BH5 & KR3BH6 & KR3B \\
\hline & & Red & KR3RH13 & KR3RH5 & KR3RH6 & KR3R \\
\hline & & Green & KR3GH13 & KR3GH5 & KR3GH6 & KR3G \\
\hline & & Universal [2] & KR3UH13 & KR3UH5 & KR3UH6 & KR3U \\
\hline 9001KR3B & & Other [3] & KR3-H13 & KR3.H5 & KR3.H6 & KR3. \\
\hline \multirow[b]{5}{*}{9001KR2B} & \multirow{5}{*}{Extended Guard} & Black & KR2BH13 & KR2BH5 & KR2BH6 & KR2B \\
\hline & & Red & KR2RH13 & KR2RH5 & KR2RH6 & KR2R \\
\hline & & Green & KR2GH13 & KR2GH5 & KR2GH6 & KR2G \\
\hline & & Universal [2] & KR2UH13 & KR2UH5 & KR2UH6 & KR2U \\
\hline & & Other[3] & KR2-H13 & KR2.H5 & KR2.H6 & KR2■ \\
\hline \multirow{11}{*}{} & \multirow{11}{*}{\(1-3 / 8 \mathrm{in} .(35 \mathrm{~mm})\) Diameter Mushroom Button} & \multicolumn{5}{|l|}{Snap-In Plastic Mushroom Button} \\
\hline & & Black & KR4BH13 & KR4BH5 & KR4BH6 & KR4B \\
\hline & & Red & KR4RH13 & KR4RH5 & KR4RH6 & KR4R \\
\hline & & Red [4] & KR4R05H13 & KR4R05H5 & KR4R05H6 & KR4R05 \\
\hline & & Green & KR4GH13 & KR4GH5 & KR4GH6 & KR4G \\
\hline & & Other [3] & KR4*H13 & KR4.H5 & KR4-H6 & KR4■ \\
\hline & & \multicolumn{5}{|l|}{Screw-On Mushroom Button with Set Screw Security, Plastic Head} \\
\hline & & Black & KR24BH13 & KR24BH5 & KR24BH6 & KR24B \\
\hline & & Red & KR24RH13 & KR24RH5 & KR24RH6 & KR24R \\
\hline & & Green & KR24GH13 & KR24GH5 & KR24GH6 & KR24G \\
\hline & & Other[3] & KR24-H13 & KR24*H5 & KR24-H6 & KR24. \\
\hline \multirow[b]{4}{*}{9001KR24BM} & \multirow{4}{*}{\begin{tabular}{l}
1-1/2 in. (40 mm) \\
Diameter Mushroom Button
\end{tabular}} & \multicolumn{5}{|l|}{Screw-On Metal Mushroom Button with Set Screw Security} \\
\hline & & Black & - & - & - & 9001KR24BM \\
\hline & & Red & - & - & - & 9001KR24RM \\
\hline & & Green & - & - & - & 9001KR24GM \\
\hline \multirow{11}{*}{9001KR5B} & \multirow{11}{*}{\[
\begin{aligned}
& \text { 2-1/4 in. }(57 \mathrm{~mm}) \\
& \text { Diameter } \\
& \text { Mushroom Button }
\end{aligned}
\]} & \multicolumn{5}{|l|}{Snap-In Plastic Mushroom Button} \\
\hline & & Black & KR5BH13 & KR5BH5 & KR5BH6 & KR5B \\
\hline & & Red & KR5RH13 & KR5RH5 & KR5RH6 & KR5R \\
\hline & & Red [4] & KR5R05H13 [4] & KR5R05H5 [4] & KR5R05H6 [4] & KR5R05 [4] \\
\hline & & Green & KR5GH13 & KR5GH5 & KR5GH6 & KR5G \\
\hline & & Other[3] & KR5-H13 & KR5-H5 & KR5.H6 & KR5. \\
\hline & & \multicolumn{5}{|l|}{Screw-On Mushroom Button with Set Screw Security, Plastic Head} \\
\hline & & Black & KR25BH13 & KR25BH5 & KR25BH6 & KR25B \\
\hline & & Red & KR25RH13 & KR25RH5 & KR25RH6 & KR25R \\
\hline & & Green & KR25GH13 & KR25GH5 & KR25GH6 & KR25G \\
\hline & & Other[3] & KR25-H13 & KR25-H5 & KR25-H6 & KR25. \\
\hline \multirow[t]{4}{*}{} & \multirow{4}{*}{\begin{tabular}{l}
2-3/8 in. ( 60 mm ) \\
Diameter \\
Mushroom Button
\end{tabular}} & \multicolumn{5}{|l|}{Screw-On Metal Mushroom Button with Set Screw Security} \\
\hline & & Black & - & - & - & 9001KR25BM \\
\hline & & Red & - & - & - & 9001KR25RM \\
\hline & & Green & - & - & - & 9001KR25GM \\
\hline
\end{tabular}

NOTE: To select contact blocks, light modules, and accessories, see Type KA Contact Blocks, page 19-90.
Table 19.215: Color Codes
\begin{tabular}{c|c|c} 
Color & \begin{tabular}{c} 
KR1, 2, 3 \\
Place Color Code \\
in Type Number
\end{tabular} & \begin{tabular}{c} 
KR4, 5, 24, 25 \\
Place Color Code \\
in Type Number
\end{tabular} \\
Blue & L \\
Yellow & Y \\
White & W \\
Orange & S & L \\
Gray & E & Y \\
\hline NOTE: For use in hazardous locations—See Square D Offering According to Class, Division, and Group, page 19-
\end{tabular}

Table 19．216： 30 mm Multifunction Operators
\begin{tabular}{|c|c|c|c|c|c|}
\hline & Description［5］ & Color & With 2 N．C．Contacts （1 KA3， 1 KA5）［6］ & With 1 N．O．\＆ 1 N．C．Contact （1 KA1）［6］ & Without Contacts［6］［7］ \\
\hline \multicolumn{6}{|l|}{Non－Illuminated Push－Pull Mushroom Operators} \\
\hline  & Position，Plastic Head 1－5／8 in．（ 40 mm ），Screw－On Momentary Pull Maintained Neutral Momentary Push［8］ & Red Green Other［9］ & \begin{tabular}{l}
KR8RH25 \\
KR8GH25 \\
KR8 \(\mathbf{V} \mathrm{H}_{2}\)
\end{tabular} & 二 & \[
\begin{aligned}
& \text { KR8R } \\
& \text { KR8G } \\
& \text { KR8 }
\end{aligned}
\] \\
\hline & 2 Position，Plastic Head \(1-5 / 8 \mathrm{in} .(40 \mathrm{~mm})\), Screw－On Maintained Pull
Maintained Push［10］ & Red［11］ Green Other［9］ & 二 & \[
\begin{aligned}
& \text { KR9RH13 } \\
& \text { KR9GH13 } \\
& \text { KR9『H13 } \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \text { KR9R } \\
& \text { KR9G } \\
& \text { KR9 } \\
& \hline
\end{aligned}
\] \\
\hline \begin{tabular}{l}
KR9R94H13 \\
Set Screw Style
\end{tabular} & 2 Position，Plastic Head
\(1-5 / 8\) in．\((40 \mathrm{~mm})\),
Screw－On Head with Set Screw
Maintained Pull
Maintained Push［10］ & Red & － & KR9R94H13 & KR9R94 \\
\hline & & Black & － & & 9001KR9BM94 \\
\hline & 2 Position， & Red & － & & 9001KR9RM94 \\
\hline & \begin{tabular}{l}
Metal Head \\
1－1／2 in．（40 mm）Diameter
\end{tabular} & Green & － & － & 9001KR9GM94 \\
\hline & & Black & － & & 9001KR9BM95 \\
\hline & 2 Position， & Red & － & & 9001KR9RM95 \\
\hline  & 2－3／8 in．（60 mm）Diameter & Green & － & － & 9001KR9GM95 \\
\hline & Description & Color & With 1 N．O．\＆ 1 N．C． Contact（KA1） & With 2 N．O．\＆ 2 N．C． Contacts（KA2） & Without Contacts \\
\hline Non－Illuminated Turn－t & se Mushroom Operators & & & & \\
\hline \begin{tabular}{l}
9001KR16H2 \\
Trigger Action
\end{tabular} & 2 Position， Plastic Head Turn－to－Release Trigger Action & Red & KR16H13 & KR16H2 & KR16 \\
\hline
\end{tabular}


9001KR9P1
1.625 in．Diameter Knob

For 1－3／8 in．or 2－1／4 in．Diameter Knob［5］
Includes Type KN379
Legend Plate Marked
Pull To Start Push To Stop
Table 19．217：Color Codes for 30 mm Multifunction Operators V
\begin{tabular}{c|c} 
Color & KR8，KR9 \\
Black［15］ & B \\
\hline Red & R \\
\hline Green & G \\
\hline Blue & L \\
\hline Yellow & Y \\
\hline White & W \\
\hline Orange［15］ & S \\
\hline Clear & C \\
\hline Amber & A \\
\hline Gray & - \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline \multicolumn{5}{|l|}{Screw－On Plastic Illuminated Push－Pull Mushroom Operators［6］［12］［9］} \\
\hline Description［5］ & Voltage & \begin{tabular}{l}
With Red Knob and 2 N．C． Contacts \\
（1 KA3， 1 KA5）
\end{tabular} & With Other Color Knob and 2 N．C．Contacts （1 KA3， 1 KA5） & With Other Color Knob Without Contacts［7］ \\
\hline 3 Position Illuminated Momentary Pull Momentary Push［8］ & \(110-120 \mathrm{~V}, 50-60 \mathrm{~Hz}\) Other－Transformer，LED， Flashing［13］ Other－Full Voltage， Resistor，Neon［14］ & \begin{tabular}{l}
KR8P1RH25 \\
KR8P \(\Delta\) RH25 \\
KR8P \(\Delta\) RH25
\end{tabular} & \begin{tabular}{l}
KR8P1 1 H25 \\
KR8P【VH25 \\
KR8P【VH25
\end{tabular} & KR8P1V KR8PMV KR8P』V \\
\hline Description［5］ & Voltage & With Red［11］ Knob \＆ 1 N．O． \＆ 1 N．C．Contact （KA1） & With Other Color Knob and 1 N．O． \＆ 1 N．C．Contact （KA1） & With Other Color Knob Without Contacts \\
\hline 2 Position Illuminated Maintained Push & \[
\begin{gathered}
110-120 \mathrm{~V}, 50-60 \mathrm{~Hz} \\
\text { Other-Transformer, LED, } \\
\text { Flashing [13] } \\
\text { Other-FFill Votage, } \\
\text { Resistor, Neon [14] } \\
\hline
\end{gathered}
\] & \[
\begin{aligned}
& \text { KR9P1RH13 } \\
& \text { KR9P } \Delta \text { RH13 } \\
& \text { KR9P } \mathbf{R H} 13
\end{aligned}
\] & \begin{tabular}{l}
KR9P17H13 \\
KR9P』VH13 \\
KR9P \(\boldsymbol{\wedge} \boldsymbol{\mathrm { H }} 13\)
\end{tabular} &  \\
\hline
\end{tabular}

Table 19．218：Contact Sequences


NOTE：To select contact blocks，light modules，and accessories，see Type KA Contact Blocks，page 19－90．
［5］For 1－3／8 in．or 2－1／4 in．Dia．Knob：
a）Order Type -20 or -21 knob from Additional Accessories for Type \(K\) and SK Operators，page 1y－yy．
b）Order 9001 K 54 adapter－allows Type -20 or -21 knob to fit on push pull operators．Voids UL and NEMA 6 rating．
c）Can order assembled operator by adding color code to Type－20 or－21．Example：9001KR9R would be 9001KR9R20 or 9001 KR9R21．
［6］When ordering，add prefix 9001 to the catalog number．
［7］These operators can be ordered complete with contact blocks．For maximum block usage，see lable 19.280 ＂ H ＂Codes，page 19 － 93 ．Add the chosen＂ H ＂number to the end of the operator
［8］For contact sequences，see Iable 19．218 Contact Sequences，page 19－／3
［9］\(\quad\) Choose one color from the Color Codes table here，and insert the color code in Type number．Example：KR9 with a yellow knob＝KR9Y
［10］For color codes，see Color Codes for 30 mm Multifunction Operators，page 19－／3．
［11］To obtain a red knob with＂Push Emergency Stop＂printed on the red knob—substitute＂R05＂in place of＂R＂
［12］ \(\boldsymbol{A}\) Add the voltage assembly code as chosen from Table 19．274 Standard Light Modules for Types K，SK，and KX Control Units，page 19－91．Example：KR8P with a 277 V \(50-60\) Hz voltage \(=\) KR8P8 ．
［13］The knob must be the same color as the LED light module chosen，for example，for a green LED，use a green knob．
［14］On neon light modules，use clear knobs only．
［15］These colors are not available on illuminated push－pull operators．
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Table 19.219: Illuminated Momentary Push Button Operators
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|c|}{Description} & Voltage and Frequency & Style & \begin{tabular}{l}
With Red Color Cap and 1 N.O. and 1 N.C. \\
Contact (KA1) [16]
\end{tabular} & \begin{tabular}{l}
With Green Color Cap and 1 N.O. and 1 N.C. \\
Contact (KA1) [16]
\end{tabular} & With Other Color Cap Without Contact Block [17] [18] [16] \\
\hline \multirow[b]{7}{*}{9001K1L1} & \multirow{7}{*}{Full Guard Illuminated Push Button Clear Plastic Top} & \(110-120 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & K1L1RH13 & K1L1GH13 & K1L1 7 \\
\hline & & \(220-240 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & K1L7RH13 & K1L7GH13 & K1L7 V \\
\hline & & 24-28 Vac/Vdc & Full Voltage & K1L35RH13 & K1L35GH13 & K1L35 \\
\hline & & \multirow{4}{*}{For other voltages[19]■} & Transformer or Flashing & K1LaRH13 & K1LeGH13 & K1L■V \\
\hline & & & Full Voltage & K1LaRH13 & K1LaGH13 & K1L■ [18] \\
\hline & & & Resistor or Neon[20] & K1LaRH13 & K1LaGH13 & K1L■V \\
\hline & & & LED [21] & K1LeRH13 & K1L■GH13 & K1L■V \\
\hline \multirow[b]{7}{*}{9001K3L1} & \multirow{7}{*}{Full Guard Illuminated Push Button Metal Top} & \(110-120 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & K3L1RH13 & K3L1GH13 & K3L1 \({ }^{\text {V }}\) \\
\hline & & \(220-240 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & K3L7RH13 & K3L7GH13 & K3L7 V \\
\hline & & 24-28 Vac/Vdc & Full Voltage & K3L35RH13 & K3L35GH13 & K3L35 V \\
\hline & & \multirow{4}{*}{For other voltages[19]■} & Transformer or Flashing & K3LaRH13 & K3LıGH13 & K3L■V \\
\hline & & & Full Voltage & K3LaRH13 & K3L@GH13 & K3L■ [18] \\
\hline & & & Resistor or Neon [20] & K3LaRH13 & K3L-GH13 & K3L■ V \\
\hline & & & LED [21] & K3L.RH13 & K3L-GH13 & K3L. \({ }^{\text {V }}\) \\
\hline & \multirow{7}{*}{No Guard Illuminated Push Button} & \(110-120 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & K2L1RH13 & K2L1GH13 & K2L1 7 \\
\hline & & \(220-240 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & K2L7RH13 & K2L7GH13 & K2L7 \({ }^{\text {V }}\) \\
\hline 8 & & 24-28 Vac/Vdc & Full Voltage & K2L35RH13 & K2L35GH13 & K2L35 \\
\hline \(\checkmark 7\) - & & \multirow{4}{*}{For other voltages[19]■} & Transformer or Flashing & K2LaRH13 & K2L.GH13 & K2L■ [18] \\
\hline (-x3) & & & Full Voltage & K2LaRH13 & K2L.GH13 & K2L■ \({ }^{\text {a }}\) \\
\hline  & & & Resistor or Neon [20] & K2LaRH13 & K2LaGH13 & K2L■V \\
\hline 9001K2L1 & & & LED [21] & K2LaRH13 & K2L』GH13 & K2L. V \\
\hline \multirow[b]{7}{*}{9001K2LR20} & \multirow{7}{*}{\begin{tabular}{l}
1-3/8 in. (35 mm) \\
Illuminated \\
Mushroom, \\
Screw-On \\
Plastic Head
\end{tabular}} & \(110-120 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & K2L1R20H13 & K2L1G20H13 & \multirow{7}{*}{Order K2L ■ V Above [22]} \\
\hline & & \(220-240 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & K2L7R20H13 & K2L7G20H13 & \\
\hline & & 24-28 Vac/Vdc & Full Voltage & K2L35R20H13 & K2L35G20H13 & \\
\hline & & \multirow{4}{*}{For other voltages[19]■} & Transformer or Flashing & K2LeR20H13 & K2L.G20H13 & \\
\hline & & & Full Voltage & K2LaR20H13 & K2L-G20H13 & \\
\hline & & & Resistor or Neon [20] & K2LaR20H13 & K2LeG20H13 & \\
\hline & & & LED [21] & K2LaR20H13 & K2L.G20H13 & \\
\hline \multirow[b]{7}{*}{9001K2LR21} & \multirow{7}{*}{2-1/4 in. ( 57 mm ) Illuminated Mushroom, Screw-On Plastic Head} & 110-120 V, 50-60 Hz & Transformer & K2L1R21H13 & K2L1G21H13 & \multirow{7}{*}{Order K2L■ \(\boldsymbol{\nabla}\) Above [22]} \\
\hline & & \(220-240 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & K2L7R21H13 & K2L7G21H13 & \\
\hline & & 24-28 Vac/Vdc & Full Voltage & K2L35R21H13 & K2L35G21H13 & \\
\hline & & \multirow{4}{*}{For other voltages[19]■} & Transformer or Flashing & K2LaR21H13 & K2L-G21H13 & \\
\hline & & & Full Voltage & K2LaR21H13 & K2L-G21H13 & \\
\hline & & & Resistor or Neon [20] & K2LmR21H13 & K2L-G21H13 & \\
\hline & & & LED [21] & K2LaR21H13 & K2L.G21H13 & \\
\hline
\end{tabular}

NOTE: To select contact blocks, light modules, and accessories, see Type KA Contact Blocks, page 19-90.
Table 19.220: Color Caps

[16] When ordering, add prefix 9001 to the catalog number.
 number.
[18] Add the color code as chosen from the color cap table. Example: K2L25 with a blue 1-3/8 in. mushroom button = K2L25L20.
[19] Add the voltage assembly code as chosen from Standard and Shallow Depth Light Modules, page 19-91. Example: K2L with 240 Vac/Vdc = K2L25.
[20] On neon light modules, use clear color caps only.
[21] The cap must be the same color as the LED light module chosen, e.g., for red LED, use red color cap.
[22] The only difference between a no guard (K2L_) operator and mushroom button operator is the color cap.

9001K 2-Position Selector Switches
Table 19.221: 2-Position Selector Switches

\begin{tabular}{|c|c|c|}
\hline Non-Illuminated Operators & Cat. No. [23] & Cat. No. [23] \\
\hline \multicolumn{3}{|l|}{Manual Return [24], Operator Only (without contact blocks)} \\
\hline Without Knob & KS11 & KS12 \\
\hline With Knob (select style and color from Table 19.222 Selector Switch Assembly Codes, page 19-75) [25] & KS11* & KS12. \\
\hline Key Operated with E10 Key (Code1,2,3) [25] & KS11K & KS12K \\
\hline \multicolumn{3}{|l|}{Operator with Contact Blocks and Standard black knob} \\
\hline With 1 KA1 on Side \#2 & KS11BH13 & - \\
\hline With \(1 \mathrm{KA1}\) on Side \#1 & KS11BH1 & - \\
\hline With 1 KA1 on Side \#1 and 1 KA1 on side \#2 & KS11BH2 & - \\
\hline \multicolumn{3}{|l|}{Spring Return from Left [24], Operator Only (without contact blocks)} \\
\hline Without Knob & KS25 & - \\
\hline With Knob (select style and color from Table 19.222 Selector Switch Assembly Codes, page 19-75) [25] & KS25 & - \\
\hline Key Operated with E10 Key (Code 2 only) [26] & KS25K2 & - \\
\hline \multicolumn{3}{|l|}{Spring Return from Right [24], Operator Only (without contact blocks)} \\
\hline Without Knob & - & KS34 \\
\hline With Knob (select style and color from Table 19.222 Selector Switch Assembly Codes, page 19-75) [25] & - & KS34* \\
\hline Key Operated with E10 Key (Code 1 only) & - & KS34K1 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|}
\hline Illuminated Operators & Cat. No. [23] & Cat. No. [23] \\
\hline \multicolumn{3}{|l|}{Manual Return [24], Operator Only (without contact blocks)} \\
\hline Without Knob, 110-120V 50-60 Hz Transformer & K11J1 & K12J1 \\
\hline With Standard Red Knob, 110-120V 50-60 Hz Transformer & K11J1R & K12J1R \\
\hline With Other Color Knob and other voltage Light Module [27]. [25] & K11J.* & K12J■* \\
\hline \multicolumn{3}{|l|}{Spring Return from Left [24], Operator Only (without contact blocks)} \\
\hline Without Knob, 110-120V 50-60 Hz Transformer & K25J1 & - \\
\hline With Standard Red Knob, 110-120V 50-60 Hz Transformer & K25J1R & - \\
\hline With Other Color Knob and other voltage Light Module [27]. [25] & K25J■* & - \\
\hline \multicolumn{3}{|l|}{Spring Return from Right [24], Operator Only (without contact blocks)} \\
\hline Without Knob, 110-120V 50-60 Hz Transformer & - & K34J1 \\
\hline With Standard Red Knob, 110-120V 50-60 Hz Transformer & - & K34J1R \\
\hline With Other Color Knob and other voltage Light Module [27]. [25] & - & K34J•* \\
\hline
\end{tabular}

Table 19.222: Selector Switch Assembly Code and Knob Cat. No.
\begin{tabular}{l|c|c|c|c}
\multirow{2}{*}{ Color } & \multicolumn{2}{|c|}{ Standard Knob } & \multicolumn{2}{c}{ Gloved Hand Knob } \\
\cline { 2 - 5 } & \(\bullet\) Knob Code & Cat. No. [23] & \(\bullet\) Knob Code & Cat. No. [23] \\
\hline Black & B & B11 & FB & B25 \\
\hline Red & R & R8 & FR & R24 \\
\hline Green & G & G8 & FG & G24 \\
\hline Yellow & Y & Y8 & FY & Y24 \\
\hline Blue & L & L8 & FL & L24 \\
\hline White & W & W8 & FW & W24 \\
\hline Amber & A & A8 & FA & A24 \\
\hline Clear & C & C8 & FC & C24 \\
\hline
\end{tabular}

Table 19.223: Key Withdrawl Codes
\begin{tabular}{c|c} 
Code & Position \\
\hline 1 & 2 \\
\hline 2 & Left Only \\
\hline 2
\end{tabular}

\section*{2 Position}

NOTE: To select and order Contact Blocks, Light Modules, Knobs, and Accessories, see Type KA Contact Blocks, page 19-90 through Hermetically Sealed Power Reed Contact Blocks, page 19-92.
[23] When ordering, add prefix 9001 to the catalog number.
[24] These operators can be ordered complete with contact blocks. Add the "H code" from Table 19.280 "H" Codes, page 19-93 as needed for your application.
[25] * Add the knob color code from Table 19.222 Selector Switch Assembly Codes, page 19-75
[26] Add the key withdrawal code from Table 19.223 Key Withdrawl Codes, page 19-75
[27] Add the voltage assembly code as chosen from Standard and Shallow Depth Light Modules, page 19-91. Example: K25Ju with 208Vac = K25J3

Table 19．224：3－Position Selector Switches
\begin{tabular}{l}
\begin{tabular}{c} 
Contact \\
Block \\
Position
\end{tabular} \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline Illuminated Operators & Cat．No． & Cat．No． & Cat．No． & Cat．No． & Cat．No． & Cat．No． & Cat．No． & Cat．No． & Cat．No． \\
\hline \multicolumn{10}{|l|}{Manual Return，Operator Only（without contact blocks）［29］} \\
\hline Without Knob，110－120V 50－60 Hz Transformer & K42J1 & K43J1 & K44J1 & K45J1 & K46J1 & K47J1 & K49J1 & K401J1 & K402J1 \\
\hline With Standard Red Knob，110－120V \(50-60 \mathrm{~Hz}\) Transformer & K42J1R & K43J1R & K44J1R & K45J1R & K46J1R & K47J1R & K49J1R & K401J1R & K402J1R \\
\hline With Other Color Knob and other voltage Light Module m［33］［30］ & K42J．\({ }^{\text {¢ }}\) & K42J■＊ & K44J■＊ & K45J．＊ & K46J■＊ & K47J』＊ & K49J■＊ & K401J．＊ & K402J．＊ \\
\hline \multicolumn{10}{|l|}{Spring Return from Left to Center，Operator Only（without contact blocks）［29］} \\
\hline Without Knob，110－120V 50－60 Hz Transformer & K62J1 & K63J1 & K64J1 & K65J1 & K66J1 & K67J1 & K69J1 & K601J1 & K602J1 \\
\hline With Standard Red Knob，110－120V \(50-60 \mathrm{~Hz}\) Transformer & K62J1R & K63J1R & K64J1R & K65J1R & K66J1R & K67J1R & K69J1R & K601J1R & K602J1R \\
\hline With Other Color Knob and other voltage Light Module［33］［30］ & K62J■＊ & K62J■＊ & K64J■＊ & K65J．\({ }^{\text {¢ }}\) & K66J■＊ & K67J』＊ & K69J■＊ & K601J．＊ & K602J．＊ \\
\hline \multicolumn{10}{|l|}{Spring Return from Right to Center，Operator Only（without contact blocks）［29］} \\
\hline Without Knob，110－120V 50－60 Hz Transformer & K72J1 & K73J1 & K74J1 & K75J1 & K76J1 & K77J1 & K79J1 & K701J1 & K702J1 \\
\hline With Standard Red Knob，110－120V \(50-60 \mathrm{~Hz}\) Transformer & K72J1R & K73J1R & K74J1R & K75J1R & K76J1R & K77J1R & K79J1R & K701J1R & K702J1R \\
\hline With Other Color Knob and other voltage Light Module［［33］［30］ & K72J■＊ & K72J■＊ & K74J■＊ & K75J．\({ }^{\text {¢ }}\) & K76J■＊ & K77J』＊ & K79J■＊ & K701J■＊ & K702J．＊ \\
\hline \multicolumn{10}{|l|}{Spring Return from Both Sides to Center，Operator Only（without contact blocks）［29］} \\
\hline Without Knob，110－120V 50－60 Hz Transformer & K52J1 & K53J1 & K54J1 & K55J1 & K56J1 & K57J1 & K59J1 & K501J1 & K502．J1 \\
\hline With Standard Red Knob，110－120V \(50-60 \mathrm{~Hz}\) Transformer & K52J1R & K53J1R & K54J1R & K55J1R & K56J1R & K57J1R & K59J1R & K501J1R & K502J1R \\
\hline With Other Color Knob and other voltage Light Module［［33］＊30］ & K52J．\({ }^{\text {¢ }}\) & K53J■＊ & K54J■ \({ }^{\text {¢ }}\) & K55J．\({ }^{\text {¢ }}\) & K56J．\({ }^{\text {¢ }}\) & K57J』＊ & K59J■＊ & K501J．＾ & K502J．\({ }^{\text {＊}}\) \\
\hline
\end{tabular}

Table 19．225：Selector Switch Assembly Code and Knob Cat．No．＊
\begin{tabular}{l|c|c|c|c}
\multirow{3}{*}{ Color } & \multicolumn{2}{|c|}{ Standard Knob } & \multicolumn{2}{c}{ Gloved Hand Knob } \\
\cline { 2 - 5 } & ［30］Knob Code & Cat．No．［28］ & ［30］Knob Code & \begin{tabular}{c} 
Cat．No． \\
［28］
\end{tabular} \\
\hline Black & B & B11 & FB & B25 \\
\hline Red & R & R8 & FR & R24 \\
\hline Green & G & G8 & FG & G24 \\
\hline Yellow & Y & Y8 & FY & Y24 \\
\hline Blue & L & L8 & FL & L24 \\
\hline White & W & W8 & FW & W24 \\
\hline Amber & A & A8 & FA & A24 \\
\hline Clear & C & C8 & FC & C24 \\
\hline
\end{tabular}

Table 19．226：Key Withdrawal Codes［34］
\begin{tabular}{|c|c|c|}
\hline & Code & Position \\
\hline \(\wedge\) & 4 & Left Only \\
\hline & 5 & Center Only \\
\hline & 6 & Right Only \\
\hline & 7 & Left and Center \\
\hline － & 8 & Left and Right \\
\hline & 9 & Center and Right \\
\hline & 10 & Left，Center，and Right \\
\hline 3 Position & & \\
\hline
\end{tabular}

NOTE：To select and order Contact Blocks，Light Modules，Knobs，and Accessories，see Type KA Contact Blocks，page 19－90 through Hermetically Sealed Power Reed Contact Blocks，page 19－92．
［28］When ordering，add prefix 9001 to the catalog number．
［29］These operators can be ordered complete with contact blocks．Add the＂H code＂from Table 19．280＂H＂Codes，page 19－93 as needed for your application．
［30］Add the knob color code from Table 19．225 Selector Switch Assembly Code，page 19－76．For LED，knob color must match LED．
［31］V Add the key withdrawal code from Key Widthdrawl Codes table．Example：KS43K with key withdrawal in the right position only＝KS43K6．
［32］For other color knobs replace the B with knob color code from the Selector Switch Assembly Code table．
［33］Add the voltage assembly code as chosen from page 19－86．
［34］Add the key withdrawal code from Key Widthdrawl Codes table．Example：KS43K with key withdrawal in the right position only＝KS43K6．

Table 19.227: 4-Position Selector Switches
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multicolumn{8}{|c|}{Contact Block Required} \\
\hline Contact Block Position & \multicolumn{3}{|c|}{Quantity and Type KA1 or KA2 or KA3} & \multicolumn{3}{|c|}{Mount on Side KA1 or KA2 or KA3} & 1-Contact Closed 0-Contact Open \\
\hline  & & &  & KA1 & & \[
\begin{gathered}
\text { KA3 } \\
\# 2
\end{gathered}
\] &  \\
\hline \(\equiv-\forall b-\frac{1}{2}\) & \[
\frac{010}{000}
\] & or & \[
\begin{gathered}
\mathrm{KA2} \\
\hline \quad \mathrm{O}
\end{gathered}
\] & \#2 & or & \[
\begin{gathered}
\text { KA2 } \\
\# 2
\end{gathered}
\] & 0 \\
\hline  & KA1 & & \[
\begin{aligned}
& \mathrm{KA3} \\
& \mathrm{~K}
\end{aligned}
\] & & & \[
\begin{gathered}
\text { KA3 } \\
\# 1
\end{gathered}
\] & \(\begin{array}{llll}0 & 0 & 0 & 1\end{array}\) \\
\hline Top View & \[
0
\] & or & \[
\begin{gathered}
\mathrm{KA2} \\
\hline \quad \mathrm{O}
\end{gathered}
\] & \#1 & or & \[
\begin{gathered}
\text { KA2 } \\
\# 1
\end{gathered}
\] & \(0 \begin{array}{llll}0 & 1 & 0 & 0\end{array}\) \\
\hline \multicolumn{7}{|l|}{For cam, see Type K, KX, and SK Selector Switch Guide, page 19-78.} & H \\
\hline & & & & & & & \\
\hline \multicolumn{7}{|l|}{Non-Illuminated Operators} & Cat. No. [35] \\
\hline \multicolumn{8}{|l|}{Manual Return [36], Operator Only (without contact blocks)} \\
\hline \multicolumn{7}{|l|}{Without Knob} & KS88 \\
\hline \multicolumn{7}{|l|}{With Knob [37]} & KS88* \\
\hline \multicolumn{7}{|l|}{Key Operated with E10 Key (Codes 11, 12, 13, 14, 15)} & KS88K[38] \\
\hline \multicolumn{7}{|l|}{Illuminated Operators} & Cat. No. [35] \\
\hline \multicolumn{8}{|l|}{Manual Return [36], Operator Only (without contact blocks)} \\
\hline \multicolumn{7}{|l|}{Without Knob, 110-120V 50-60 Hz Transformer} & KS88J1 \\
\hline \multicolumn{7}{|l|}{With Standard Red Knob, 110-120V 50-60 Hz Transformer} & KS88J1R \\
\hline \multicolumn{7}{|l|}{With Other Color Knob and other voltage Light Module m[39] [37][40]} & KS88J■* \\
\hline
\end{tabular}

Table 19.228: Selector Switch Assembly Code and Knob Cat. No.
\begin{tabular}{l|c|c|c|c}
\multirow{2}{*}{ Color } & \multicolumn{2}{|c|}{ Standard Knob } & \multicolumn{2}{c}{ Gloved Hand Knob } \\
\cline { 2 - 5 } Black & Knob Code & Cat. No. & Knob Code & Cat. No. \\
\hline Red & B & B11 & FB & B25 \\
\hline Green & R & R8 & FR & R24 \\
\hline Yellow & G & G8 & FG & G24 \\
\hline Blue & Y & Y8 & FY & Y24 \\
\hline White & L & L8 & FL & L24 \\
\hline Amber & W & W8 & FW & W24 \\
\hline Clear & A & A8 & FA & A24 \\
\hline
\end{tabular}

Table 19.229: Key Withdrawl Codes
Code \begin{tabular}{c} 
Position \\
112 and 4 \\
4 only \\
1 only \\
\(1,2,3\) and 4 \\
\(2,3,3\), and 4
\end{tabular}

NOTE: To select and order Contact Blocks, Light Modules, Knobs, and Accessories, see Type KA Contact Blocks, page 19-90 through Hermetically Sealed Power Reed Contact Blocks, page 19-92.

Potentiometers with Dial Plate
Table 19.230: Potentiometers with Dial Plate (not UL listed)—Maximum Voltage 300 Vac

\begin{tabular}{|c|c|c|c|}
\hline Power & Description & Ratings & Type \\
\hline \multirow{4}{*}{2 W} & Operator Only, for Single Potentiometer & \multirow{4}{*}{NEMA 4, 13} & K20 \\
\hline & Operator with Single Potentiometer & & K21 \\
\hline & Operator Only, for Tandem Potentiometer & & K22 \\
\hline & Operator with Tandem Potentiometer & & K23 \\
\hline
\end{tabular}

Table 19.231: Potentiometer Suffixes
Single Potentiometer
\begin{tabular}{l|l|l|l}
\hline Single Potentiometer & Resistance & Suffix [41] & Resistance \\
\hline Suffix [41] & \(50 \Omega\) & 07 & \(5 \mathrm{k} \Omega\) \\
\hline 01 & \(100 \Omega\) & 08 & \(10 \mathrm{k} \Omega\) \\
\hline 02 & \(500 \Omega\) & 09 & \(25 \mathrm{k} \Omega\) \\
\hline 04 & \(1 \mathrm{k} \Omega\) & 13 & \(500 \mathrm{k} \Omega\) \\
\hline 05 & \(2 \mathrm{k} \Omega\) & 37 & \(750 \mathrm{k} \Omega\) \\
\hline 39 & \(2.5 \mathrm{k} \Omega\) & 14 & \(1 \mathrm{M} \Omega\) \\
\hline 06 & & \\
\hline Tandem Potentiometer & & Resistance & \\
\cline { 3 - 4 } Suffix [41] & Front & Rear \\
82 & 1 kW & 1 kW \\
\hline
\end{tabular}
[35] When ordering, add prefix 9001 to the catalog number.
[36] These operators can be ordered complete with contact blocks. Add the "H code" from Table 19.280 "H" Codes, page 19-93 as needed for your application.
[37] Add the knob color code from the Selector Switch Assembly Code table. For LED, knob color must match LED.
[38] Add the key withdrawal code from the Key Withdrawl Codes table.
[39] Add the key withdrawal code from Key Widthdrawl Codes table. Example: KS43K with key withdrawal in the right position only = KS43K6.
[40] Add the knob color code from the Selector Switch Assembly Code table. For LED, knob color must match LED.
[41] For the complete part number, add the suffix from lable 19.231 Potentiometer Suffixes, page 19-// to the catalog number. Example: 9001K2105.

Class 9001 / Refer to Catalog 9001CT1103

Selection
Shown below is a simplified method of selecting a selector switch to meet almost any combination of contact sequences.
Step No. 1
Determine the contact sequence(s) required. Set up a target table like the one shown for the example below.
\begin{tabular}{c|c|c|c}
\begin{tabular}{c} 
Contact Sequence \\
0 -contact open 1- \\
contact closed
\end{tabular} & A & A & \\
\hline A & 1 & 0 & 0 \\
\hline B & 0 & 1 & 0 \\
\hline C & 0 & 0 & 1 \\
\hline
\end{tabular}

Step No. 2
Look for a cam type common to all sequences in:
Table 19.232 2 Position Selector Switch, page 19-78,
Table 19.2333 Position Selector Switch, page 19-78, or
Table 19.2344 Position Selector Switch, page 19-78
For the example above, Table 19.2333 Position Selector Switch, page 19-78 would be used.
For the contact sequences A (1 0000\()\), B ( \(\left.\begin{array}{lll}0 & 1 & 0\end{array}\right)\) and \(C\left(\begin{array}{lll}0 & 0 & 1\end{array}\right)\) of the example above, cam types \(F\) and \(L\) are common to all three sequences.

Step No. 3
Next, use the cam type common to all the sequences (if several cam types are common, choose one) to find the operator type number. Go to the proper reference topic as indicated in the table below:
\begin{tabular}{c|l|l}
\begin{tabular}{c} 
Number of \\
Positions
\end{tabular} & \begin{tabular}{l} 
Push Button \\
Line
\end{tabular} & \begin{tabular}{l} 
Reference topics \\
Rype K, \\
Type SK, \\
Type KX
\end{tabular} \\
\hline \multirow{2}{*}{3} & \begin{tabular}{l} 
Type K, page 19-75 \\
Type SK, page 19-85 \\
"H" Numbers, page 19-93 \\
Type KX with Contacts, page 19-102 \\
Type KX without Contacts, page 19-104
\end{tabular} \\
\hline \multirow{3}{*}{\begin{tabular}{c} 
Type K, \\
Type SK, \\
Type KX
\end{tabular}} & \begin{tabular}{l} 
Type K, page 19-76 \\
Type SK, page 19-86 \\
"H" Numbers, page 19-93 \\
Type KX with Contacts, page 19-102 \\
Type KX without Contacts, page 19-104
\end{tabular} \\
\hline & \begin{tabular}{l} 
Type K, \\
Type SK, \\
Type KX
\end{tabular} & \begin{tabular}{l} 
Type K, page 19-77 \\
Type SK, page 19-87 \\
Type KX, page 19-102
\end{tabular} \\
\hline
\end{tabular}

If for the example above a manual return operator with a standard
black knob is required and
The F cam type is chosen, the operator type number is:
- Type K—Class 9001 Type KS46B, page 19-76
- Type SK—Class 9001 Type SKS46B, page 19-86
- Type KX—Class 9001 Type KXSDFB, page 19-104

The \(L\) cam type is chosen, the operator type number is:
- Type K—Class 9001 Type KS401B, page 19-76
- Type SK—Class 9001 Type SKS401B, page 19-86
- Type KX—Class 9001 Type KXSDLB, page 19-104

Step No. 4:
Determine the contact blocks required by using the same table in Step No. 2
If, for the example above, the F cam type is chosen:
- Use a 9001KA3 mounted on side no. 2 for sequence A (100).
- Use a 9001KA3 mounted on side no. 1 for sequence B ( \(\left.\begin{array}{llll}0 & 1 & 0\end{array}\right)\).
- Use a 9001KA2 mounted on side no. 1 or 2 for sequence C ( 0001 ).
If, for the example above, the \(L\) cam type is chosen:
- Use a 9001KA2 mounted on side no. 2 for sequence A (1 000 ).
- Use a 9001KA2 mounted on side no. 1 or a 9001KA3 mounted on side no. 2 for sequence \(B\left(\begin{array}{lll}0 & 1 & 0\end{array}\right)\).
- Use a 9001 KA 3 mounted on side no. 1 for sequence \(C\left(\begin{array}{lll}0 & 0 & 1\end{array}\right)\). One Type KA1 double circuit block can be used in place of one Type KA2 single circuit block plus one Type KA3 single circuit block mounted on the same side

Type K, KX, and SK Selector Switch Guide
Table 19.232: 2 Position Selector Switch
\begin{tabular}{c|c|c|c|c}
\multicolumn{2}{c|}{\begin{tabular}{c} 
If you require \\
contact sequence-
\end{tabular}} & Use Cam Type & \begin{tabular}{c} 
Use Contact \\
Block Type
\end{tabular} & \begin{tabular}{c} 
Mount on \\
side no. [42]
\end{tabular} \\
\hline 1 & 0 & E & KA3 & 1 or 2 \\
\hline 1 & 1 & D & KA2 & 1 or 2 \\
\hline 0 & E & KA2 & 1 or 2 \\
\hline
\end{tabular}

Table 19.233: 3 Position Selector Switch
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{3}{|l|}{If you require contact sequence-} & \multicolumn{9}{|c|}{\multirow[t]{2}{*}{Use Cam Type}} & \multirow[t]{2}{*}{Use Contact Block Type} & \multirow[t]{2}{*}{Mount on side no. [42]} \\
\hline \(N\) & & , & & & & & & & & & & & \\
\hline & & & & & & & & G & & & M & KA2 & 1 \\
\hline & & & & & & & & & & L & & KA2 & 2 \\
\hline 1 & 0 & 0 & & C & & E & & & & & & KA3 & 1 \\
\hline & & & B & C & & E & F & G & J & & & KA3 & 2 \\
\hline & & & B & & & & & G & J & & & KA5 [43] & 2 \\
\hline & & & & & D & E & & & J & L & & KA2 & 1 \\
\hline 0 & 1 & 0 & & & D & E & & & & & & KA2 & 2 \\
\hline 0 & 1 & 0 & & & & & F & & & & & KA3 & 1 \\
\hline & & & & & & & & & & L & & KA3 & 2 \\
\hline & & & & C & & & F & & & & & KA2 & 1 or 2 \\
\hline & & & B & & D & & & G & & L & & KA3 & 1 \\
\hline 0 & 0 & 1 & & & D & & & & & & & KA3 & 2 \\
\hline & & & B & & & & & & & & & KA5[43] & 1 \\
\hline & & & & & & & & & & & M & KA2 & 2 \\
\hline & & & B & & & & & & & & & KA2 & 1 \\
\hline 1 & 1 & 0 & & C & & & F & & & & & KA5 [43] & 1 or 2 \\
\hline & & & & & & & & & & & M & KA3 & 2 \\
\hline & & & B & & & & & G & J & & & KA2 & 2 \\
\hline & & & & & & & & G & & & & KA5[43] & 1 \\
\hline 0 & 1 & 1 & & & & & & & & L & & KA5 [43] & 2 \\
\hline & & & & & & & & & & & M & KA3 & 1 \\
\hline & & & & & & & & & J & & & KA3 & 1 \\
\hline 1 & 0 & 1 & & & D & E & & & J & L & & KA5[43] & 1 \\
\hline & & & & & D & E & & & & & & KA5[43] & 2 \\
\hline
\end{tabular}

Table 19.234: 4 Position Selector Switch
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multicolumn{4}{|c|}{If you require contact sequence-} & Use Cam Type & Use Contact Block Type & Mount on side no. [42] \\
\hline 1 & 0 & 0 & 0 & H & (A) KA3 & 2 \\
\hline 0 & 1 & 0 & 0 & H & (B) KA2 & 1 \\
\hline 0 & 0 & 1 & 0 & H & (C) KA2 & 2 \\
\hline 0 & 0 & 0 & 1 & H & (D) KA3 & 1 \\
\hline 1 & 0 & 0 & 1 & H & A \& & Parallel \\
\hline 1 & 1 & 0 & 0 & H & A \& & Parallel \\
\hline 0 & 1 & 1 & 0 & H & B \& & Parallel \\
\hline 0 & 0 & 1 & 1 & H & C \& & Parallel \\
\hline 1 & 1 & 1 & 0 & H & A, B & Parallel \\
\hline 0 & 1 & 1 & 1 & H & B, C & Parallel \\
\hline 1 & 0 & 1 & 0 & H & A \& & Parallel \\
\hline 0 & 1 & 0 & 1 & H & B \& & Parallel \\
\hline 1 & 1 & 0 & 1 & H & KA5 [43] & 2 \\
\hline 1 & 0 & 1 & 1 & H & KA5 [43] & 1 \\
\hline
\end{tabular}

NOTE: For Outline Dimensions see Catalog 9001CT1103
NOTE: When ordering, add prefix 9001 to the catalog number.


When ordering, please specify:
- Quantity
- Class Number
- Type or Catalog Number

For "H" Numbers, see Type K, SK, and KX Contact Block "H" Numbers, page 19-93

Type K Heavy Duty Pilot Lights
When ordering, add prefix 9001 to the catalog number.
Table 19.235: Pilot Lights—UL Types 4, 13/NEMA 4 \& 13[44][45]
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline Description & Voltage & Style & With Red Fresnel Color Cap [46] & With Green Fresnel Color Cap [46] & \begin{tabular}{l}
With Other \\
Color Cap [46] [47]
\end{tabular} & Without Color Cap [46] \\
\hline \multirow[t]{2}{*}{Standard Pilot Light (Plastic Fresnel Color Cap Shown)} & \[
\begin{aligned}
& 110-120 \mathrm{~V}, 50-60 \mathrm{~Hz} \\
& 220-240 \mathrm{~V}, 50-60 \mathrm{~Hz} \\
& 24-28 \mathrm{Vac} / \mathrm{Vdc} \\
& \hline
\end{aligned}
\] & Transformer Transformer Full Voltage & \[
\begin{gathered}
\text { KP1R31 } \\
\text { KP7R31 } \\
\text { KP35R31 } \\
\hline
\end{gathered}
\] & \[
\begin{array}{r}
\text { KP1G31 } \\
\text { KP7G31 } \\
\text { KP35G31 } \\
\hline
\end{array}
\] & \[
\begin{gathered}
\text { KP1■ } \\
\text { KP7■ } \\
\text { KP35■ } \\
\hline
\end{gathered}
\] & KP1 KP7 KP35 \\
\hline & For other voltages see Standard and Shallow Depth Light Modules, page 19-91. & Transformer, Flashing or LED [48] Full Voltage, Neon or Resistor [49] & \begin{tabular}{l}
KP \(\triangle\) R31 \\
\(K P \Delta R 31\)
\end{tabular} & \[
\begin{aligned}
& \mathrm{KP} \triangle \mathrm{G} 31 \\
& \mathrm{KP} \mathbf{\mathrm { G }} 31
\end{aligned}
\] &  & \[
\begin{aligned}
& \mathrm{KP} \boldsymbol{K} \boldsymbol{K}
\end{aligned}
\] \\
\hline \multirow[t]{2}{*}{Push-To-Test Pilot Light (Glass Color Cap Shown)} & \[
\begin{aligned}
& 110-120 \mathrm{~V}, 50-60 \mathrm{~Hz} \\
& 220-240 \mathrm{~V}, 50-60 \mathrm{~Hz} \\
& 24-28 \mathrm{Vac} / \mathrm{Vdc} \\
& \hline
\end{aligned}
\] & Transformer Transformer Full Voltage & \[
\begin{gathered}
\text { KT1R31 } \\
\text { KT7R31 } \\
\text { KT35R31 } \\
\hline
\end{gathered}
\] & \[
\begin{gathered}
\text { KT1G31 } \\
\text { KT7G31 } \\
\text { KT35G31 } \\
\hline
\end{gathered}
\] & \[
\begin{gathered}
\text { KT1■ } \\
\text { KT7■ } \\
\text { KT35■ } \\
\hline
\end{gathered}
\] & \[
\begin{gathered}
\hline \text { KT1 } \\
\text { KT7 } \\
\text { KT35 }
\end{gathered}
\] \\
\hline & For other voltages see Standard and Shallow Depth Light Modules, page 19-91. & Transformer, Flashing or LED [48] Full Voltage, Neon or Resistor [49] & \[
\begin{aligned}
& \text { KT } \Delta R 31 \\
& \text { KT } \mathbf{A R} 31
\end{aligned}
\] & \[
\begin{aligned}
& \text { KT } \Delta \mathrm{G} 31 \\
& \text { KT } \mathbf{\Delta} 31
\end{aligned}
\] & \[
\underset{\text { KTA■ }}{\text { KTA }}
\] & \[
\begin{aligned}
& \mathrm{KT} \boldsymbol{\Delta} \\
& \mathrm{KT} \boldsymbol{\Delta}
\end{aligned}
\] \\
\hline  & 120 Vac Only 24-28 Vac Only for other voltages & Resistor [50] Full Voltage [50] & \begin{tabular}{l}
KTR38R31 \\
KTR35R31
\end{tabular} & \[
\begin{aligned}
& \text { KTR38G31 } \\
& \text { KTR35G31 }
\end{aligned}
\] & KTR38. KTR35■ & \[
\begin{aligned}
& \text { KTR38 } \\
& \text { KTR35 }
\end{aligned}
\] \\
\hline Remote Test Pilot Light (Glass Color Cap Shown) & See Standard and Shallow Depth Light Modules, page 19-91.[50] & Full Voltage or Resistor [50] & KTR \(\mathbf{A R 3 1}\) & KTR \(\mathbf{4}\) G31 & KTR © \(\quad\) - & KTR \(\triangle\) \\
\hline
\end{tabular}

Table 19.236: Color Caps
\begin{tabular}{|c|c|c|c|}
\hline Color & Plastic Fresnel & Plastic Domed &  \\
\hline \begin{tabular}{l}
Amber Blue \\
Clear \\
Green Red White Yellow
\end{tabular} & \[
\begin{aligned}
& \text { A31 } \\
& \text { L31 } \\
& \text { C31 } \\
& \text { G31 } \\
& \text { R31 } \\
& \text { W31 } \\
& \text { Y31 }
\end{aligned}
\] & A9
L9
C9
G9
R9
W9
Y9 & A6
L6
C6
G6
R6
W6
Y6 \\
\hline
\end{tabular}

\section*{Typical Wiring Diagram}


For Contact Blocks, see Type KA Contact Blocks, page 19-90
or Light Modules, see Standard and Shallow Depth Light Modules, page 19-91
For Accessories, see Type K and SK Accessories, page 19-94
[44] For use in hazardous locations, see Square D Offering According to Class, Division, and Group, page 19-92
45] Legend plates not included.
46] When ordering, add prefix 9001 to the catalog number
[47] Add the color code as chosen from Table 19.236 Color Caps, page 19-79. EXAMPLE: KP1 with a blue fresnel cap = KP1L31
[48] The cap must be the same color as the LED light module chosen, e.g., for green LED, use green color cap.
[49] On neon light modules, use clear color caps only.
[50] On remote test pilot lights use only full voltage or resistor voltage assembly codes. Do not choose LED (exception - these LED codes are allowed: 38LG, 38LL, 38LR, 38LW, 38LY), neon or transformer codes. For AC use only.

Class 9001 / Refer to Catalog 9001CT1103
schneider-electric.us


The joy stick operator is ideal for applications where only one circuit is to be energized at one time. The three position joy stick closes one circuit in each Up-Down or Right-Left position with all circuits open in center position. The five position operator closes one circuit in each Up, Down, Left and Right position with all circuits open in center position.
Momentary contact operators are spring return to the center position. Maintained operators remain in position and must be returned manually. Operators with latch cannot be operated until the latch button in center of handle is pressed.


Selector Push Button 9001KQ
Inserts are field convertible. For colors not listed, order operator without insert, plus separate color insert from Additional Accessories for Type K and SK Operators, page 19-99. Up to two Type KA contact blocks can be mounted in tandem (total of four blocks). Selector push buttons cannot be illuminated.


Key Operated Push Button 9001KR

Type K Heavy Duty Specialty Operators
Table 19.237: Joy Stick Operators—UL Types 4, 13/NEMA 4, 13 [51] [52]
\begin{tabular}{|c|c|c|c|c|c|}
\hline & \multicolumn{3}{|c|}{Description} & Operator With Contacts [53] & Operator Without Contacts [54] [53] \\
\hline \multirow{4}{*}{\[
\hat{\psi}
\]} & \multirow{4}{*}{3 PositionCenter Off} & \multirow[t]{2}{*}{Momentary ContactSpring Return to Center} & Without Latch & K71H7 & K71 \\
\hline & & & With Latch & K70H7 & K70 \\
\hline & & \multirow[t]{2}{*}{Maintained Contact} & Without Latch & K73H7 & K73 \\
\hline & & & With Latch & K72H7 & K72 \\
\hline \multirow{4}{*}{40} & \multirow{4}{*}{3 PositionCenter Off} & \multirow[t]{2}{*}{Momentary ContactSpring Return to Center} & Without Latch & K31H8 & K31 \\
\hline & & & With Latch & K30H8 & K30 \\
\hline & & \multirow[t]{2}{*}{Maintained Contact} & Without Latch & K33H8 & K33 \\
\hline & & & With Latch & K32H8 & K32 \\
\hline & \multirow{4}{*}{5 PositionCenter Off} & \multirow[t]{2}{*}{Momentary ContactSpring Return to Center} & Without Latch & K35H2 & K35 \\
\hline & & & With Latch & K34H2 & K34 \\
\hline & & \multirow[t]{2}{*}{Maintained Contact} & Without Latch & K37H2 & K37 \\
\hline & & & With Latch & K36H2 & K36 \\
\hline
\end{tabular}

Table 19.238: Contact Arrangements
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{\multirow[b]{2}{*}{Operator Positions}} & \multirow[t]{2}{*}{Contact Block Type} & \multirow[t]{2}{*}{Contact Block Location} & \multirow[b]{2}{*}{Contact} & \multicolumn{5}{|l|}{Handle position (with reference to Nib)} \\
\hline & & & & & 11 & \(2 \rightarrow\) & OFF & \(3 \downarrow\) & \(4 \div\) \\
\hline \multirow[b]{2}{*}{\(40\rangle\)} & \multirow[b]{2}{*}{3} & KA3 & POS 1 (3) & A & - & 1 & 0 & - & 0 \\
\hline & & KA3 & POS 2 (4) & A & - & 0 & 0 & - & 1 \\
\hline \multirow[t]{2}{*}{} & \multirow[b]{2}{*}{3} & KA2 & POS 1 (3) & B & 1 & - & 0 & 0 & - \\
\hline & & KA2 & POS 2 (4) & B & 0 & - & 0 & 1 & - \\
\hline \multirow{4}{*}{} & \multirow{4}{*}{5} & KA1 & POS 1 (3) & A & 0 & 1 & 0 & 0 & 0 \\
\hline & & KA1 & POS 1(3) & B & 1 & 0 & 0 & 0 & 0 \\
\hline & & \multirow[t]{2}{*}{KA1} & \multirow[t]{2}{*}{POS 2 (4)} & A & 0 & 0 & 0 & 0 & 1 \\
\hline & & & & B & 0 & 0 & 0 & 1 & 0 \\
\hline
\end{tabular}
(1) Contact Closed (0) Contact Open

Table 19.239: Selector Push Button Operators-UL Types 4, 13/NEMA 4, 13
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Contact Block Required}} & \multicolumn{10}{|c|}{Two Position Operators} \\
\hline & & \multicolumn{10}{|c|}{0-Contact Open 1-Contact Closed F-Free D-Depressed} \\
\hline \multirow[t]{2}{*}{Quantity and Type} & \multirow[t]{2}{*}{Mount on Side} & Left & Right & Left & Right & Left & Right & Left & Rig & Left & Right \\
\hline & & FD & FD & FD & FD & FD & FD & FD & FD & FD & FD \\
\hline \multirow[t]{2}{*}{1 KA1} & \multirow[b]{2}{*}{\#2} & 00 & 10 & \(0 \quad 0\) & 10 & 00 & 11 & 11 & 1 & 10 & \(0 \quad 0\) \\
\hline & & 01 & 01 & 01 & 00 & 01 & 00 & 0 0 & 0 & 01 & 01 \\
\hline \multirow[t]{2}{*}{\begin{tabular}{l}
0 \\
1 KA1
\end{tabular}} & \multirow[b]{2}{*}{\#1} & \(0 \quad 0\) & 11 & \(0 \quad 0\) & 10 & 11 & 00 & 10 & 1 & 11 & \(0 \quad 0\) \\
\hline & & \(0 \quad 1\) & 00 & \(0 \quad 1\) & 00 & 00 & 01 & 01 & 0 & \(0 \quad 0\) & 01 \\
\hline \multicolumn{2}{|c|}{Cam [55]} & \multicolumn{2}{|c|}{P} & \multicolumn{2}{|c|}{R} & \multicolumn{2}{|c|}{S} & \multicolumn{2}{|c|}{T} & \multicolumn{2}{|c|}{Y} \\
\hline \multicolumn{2}{|l|}{Color Insert} & \multicolumn{2}{|l|}{Type} & \multicolumn{2}{|l|}{Type} & \multicolumn{2}{|l|}{Type} & \multicolumn{2}{|c|}{Type} & \multicolumn{2}{|l|}{Type} \\
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Without Insert [56] Black}} & \multicolumn{2}{|c|}{KQ11} & \multicolumn{2}{|c|}{KQ12} & \multicolumn{2}{|c|}{KQ13} & \multicolumn{2}{|c|}{KQ14} & \multicolumn{2}{|c|}{KQ15} \\
\hline & & \multicolumn{2}{|c|}{KQ11B} & \multicolumn{2}{|c|}{KQ12B} & \multicolumn{2}{|c|}{KQ13B} & \multicolumn{2}{|r|}{KQ14B} & \multicolumn{2}{|c|}{KQ15B} \\
\hline
\end{tabular}

Order Contact Blocks From Type KA Contact Blocks, page 19-90
Key operated push buttons are used wherever unauthorized use of a push button is discouraged. Examples are locking a Start push button in the extended position or locking a Stop push button in the depressed position. The operator can also be locked in the flush position-holding all contacts open. Up to two Type KA contact blocks can be mounted in tandem (total of four blocks). ("X" = locked position) [57]

Table 19.240: Key Operated Push Button - UL Types 4, 13/NEMA 4, 13 [51] [52]
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Description} & \multicolumn{3}{|c|}{Lockable Positions} & \multirow[b]{2}{*}{Type [53]} \\
\hline & Extended & Flush & Depres- & \\
\hline Push button operable only with key in lock. Key is removable in locked position only. & \(\frac{\mathrm{x}}{\frac{1}{x}}\) & \(\frac{\bar{x}}{x}\) & \begin{tabular}{l}
\(\bar{x}\) \\
\(\times\) \\
\hline
\end{tabular} & KR13 KR133 KR13 \\
\hline Push button operable with or without key in lock. Push button can be locked with key only. Key removable in both locked or unlocked position. & \(\frac{\mathrm{x}}{\bar{x}}\) & \(\frac{\mathrm{x}}{\mathrm{x}}\) & \begin{tabular}{l}
\(\bar{\chi}\) \\
\(\times\) \\
\hline
\end{tabular} & KR141 KR143 KR147 \\
\hline To lock the unit, rotate the key with the button in the extended position. Then, push the button to lock it in the position indicated at right. Key is removable only in this position. & - & X & \(\bar{x}\) & KR152
KR153 \\
\hline
\end{tabular}
[51] For use in hazardous locations-See Square D Offering According to Class, Division, and Group, page 1y-y2.
[52] Legend plate and contact block not included unless otherwise noted.
[53] When ordering, add prefix 9001 to the catalog number.
[54] These operators can be ordered complete with contact blocks-a total of four (4) contact blocks can be used. Add the "H" number chosen from Table 19.280 " H " Codes, page \(19-93\) to the operator type number and add the cost of the " H " number to the operator cost.
[55] Cams are not interchangeable.
[56] Order color inserts from Additional Accessories for Type K and SK Operators, page 19-99.
[57] All key operated push buttons are furnished as standard with Square D no. E10 key change. See catalog 9001CT0001 for other key changes


NOTE: When mounted in top or bottom hole of a Type K enclosure, the Off Delay Push Button requires one additional space below or above operator. When mounted other than in top or bottom hole, device may require two additional spaces, one above and one below operator. Closing plates must be installed on unused holes.

Table 19.241: Illuminated and Non-Illuminated Dual Operators [58] [59] [60]
\begin{tabular}{|c|c|c|c|c|}
\hline Description & Color & With 2 N.O. Contacts (2 KA2) [61] & With 1 N.O. \& 1 N.C. Contact (KA2, KA3) [61] & \[
\begin{gathered}
\text { Without } \\
\text { Contacts [62] } \\
{[61]}
\end{gathered}
\] \\
\hline Momentary Dual Function & Universal [63] Green-Red Other [62] & KR6UH7 KR6GRH7 KR6.H7 & KR6UH37 KR6GRH37 KR6.H37 & KR6U KR6 \\
\hline Momentary Interlocked Dual Function & \[
\begin{aligned}
& \hline \text { Universal[63] } \\
& \text { Green-Red } \\
& \text { Other [62] } \\
& \hline
\end{aligned}
\] & \[
\begin{gathered}
\hline \text { KR67UH7 } \\
\text { KR67GRH7 } \\
\text { KR67.H7 } \\
\hline
\end{gathered}
\] & KR67UH37 KR67GRH37 KR67.H37 & KR67U KR67GR KR67■ \\
\hline Maintained Interlocked Dual Function & Universal [63] Green-Red Other [62] & KR7UH7 KR7GRH7 KR7.H7 & KR7UH37 KR7GRH37 KR7•H37 & KR7U
KR7GR KR7■ \\
\hline Description & Color & & Contacts (KA1) & Without Contacts [62] \\
\hline Both Buttons Maintained Interlocked Assembly & Universal [64] Other [65] & - & KR11UH1 KR114H1 & \begin{tabular}{l}
KR11U \\
KR11
\end{tabular} \\
\hline One Button Momentary One Button Maintained Interlocked Assembly & Universal [64] Other [65] & - & KR12UH1H1 KR124H1H1 & \begin{tabular}{l}
KR12U \\
KR12
\end{tabular} \\
\hline
\end{tabular}

Table 19.242: Emergency Break-Glass Operator-UL 4, 13/NEMA 4, 13[66]
\begin{tabular}{l|c}
\multicolumn{1}{c|}{ Description } & Type [61] \\
\begin{tabular}{l} 
Operator is held in a depressed position by a glass disc. When the glass disc is broken \\
with the hammer, button returns to a normal extended position. Package of 5 discs \\
included with operator.
\end{tabular} & K15 \\
\hline
\end{tabular}

Table 19.243: 9001K15 Replacement Parts
\begin{tabular}{l|c} 
Yescription & Part Number \\
\hline Hammer and chain & 3105211101 \\
\hline Lower ring nut & 3105206750 \\
\hline Top ring nut & 6512232801 \\
\hline Package of 5 replacement discs & 9001 K 40 \\
\hline Clip to hold hammer & 9001 K 57 \\
\hline
\end{tabular}

Table 19.244: Rocker Arm Operating Lever
\begin{tabular}{l|c} 
Description & Type [61] \\
Allows two standard push buttons to be operated independently of each other. Price does & \\
not include push buttons or legend plates. Order push buttons and legend plates fromTable & \\
19.214 Non-Illuminated Momentary Push Button Operators, page 19-72, and Table 19.284 & K50 \\
Legend Plates, page 19-94-specify which marking is to be inverted. & \\
\hline
\end{tabular}

Table 19.245: Alternate Action—Push-on, Push-off Module
\begin{tabular}{l|c}
\multicolumn{1}{c|}{ Description } & Type [61] \\
\begin{tabular}{l} 
This module can be added to standard 9001 Type K, KX, SK or T momentary push button \\
operators. Contact blocks mounted behind this module (maximum of 2) are held in the \\
depressed position when the operator is pressed once, and released to their normal \\
position when the operator is pressed again. For a N.C. circuit, use a 9001KA3 or the N.C. \\
contact of either a 9001KA1 or 9001KA4. For a N.O. circuit, use the N.O. contact of either \\
a 9001KA4 or 9001KA6.
\end{tabular} & \\
\hline Table 19.246: Wobble Stick \\
Description & K85 \\
\begin{tabular}{l} 
For easy operation of any standard push button
\end{tabular} & \\
\hline
\end{tabular}

Table 19.247: Off Delay Push Button—UL Types 4, 13/NEMA 4, 13
\begin{tabular}{|c|c|c|c|c|}
\hline & \multirow[b]{2}{*}{Description} & \multicolumn{3}{|c|}{Type (All Colors)} \\
\hline & & \[
\begin{gathered}
\text { Full } \\
\text { Guard [61] }
\end{gathered}
\] & Extended Guard [61] & \[
\begin{gathered}
\text { No } \\
\text { Guard [61] }
\end{gathered}
\] \\
\hline  & Timed Contact 1 N.O. and 1 N.C. & KRD1UH1 & KRD2UH1 & KRD3UH1 \\
\hline Time Delay Push Button 9001KRD & Timed Contact 2 N.O. and 2 N.C. & KRD1UH2 & KRD2UH2 & KRD3UH2 \\
\hline
\end{tabular}

Timing period is adjustable from 0.1 second to 60 seconds and begins after button has been released. Devices include a pack of seven color inserts for color coding the push button. See Accessories, page 19-99 for Universal color insert. Contacts are quick make-quick break.

58] Meets UL Type 13/NEMA 13 and UL Type 6/NEMA 6, which UL and NEMA consider an equivalent to UL Type 4/NEMA 4
[59] For use in hazardous locations-See Square D Offering According to Class, Division, and Group, page 19-y2.
[60] Legend plate and contact block not included unless otherwise noted.
[61] When ordering, add prefix 9001 to the catalog number.
[62] Choose one color for each button. \(\mathrm{R}=\mathrm{red}, \mathrm{G}=\) green, \(\mathrm{B}=\) Black. Example: \(9001 \mathrm{KR6}\) with left red and right black = 9001KR6RB. See Color Codes for 30 mm Multifunction Operators, page 19-72.
[63] Universal for KR6, KR67, KR7 includes 2 inserts each of black, red and green.
[64] Universal for KR11, KR12 includes 2 each of black, red, green, yellow, orange, blue, white
[65] \(\Delta\) Choose one color for each button. \(\mathrm{R}=\) red, \(\mathrm{G}=\) green, \(\mathrm{B}=\) Black. Example: 9001KR6 with left red and right black = 9001KR6RB. See Color Codes, page 19-72.
[66] For enclosed versions see 9001 KY and 9001SKY Control Stations, page 19-112.

\section*{Type SK Corrosion Resistant Non- \\ Illuminated Operators}

Class 9001 / Refer to Catalog 9001CT1103
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30 mm Momentary Push Button Operators, UL Types 4, 4X, 13/ NEMA 4, 4X, 13
Table 19.248: Non-Illuminated Momentary Push Button Operators[67]
\begin{tabular}{|c|c|c|c|c|c|}
\hline Description & Color & \[
\begin{gathered}
\text { Operator with } \\
1 \text { N.O. and } \\
1 \text { N.C. Contact (KA1) }
\end{gathered}
\] & Operator with 1 N.O. Contact (KA2) & Operator with 1 N.C. Contact (KA3) & Operator Only No Contacts [68] \\
\hline & Black & SKR1BH13 & SKR1BH5 & SKR1BH6 & SKR1B \\
\hline & Red & SKR1RH13 & SKR1RH5 & SKR1RH6 & SKR1R \\
\hline & Green & SKR1GH13 & SKR1GH5 & SKR1GH6 & SKR1G \\
\hline & Universal [69] & SKR1UH13 & SKR1UH5 & SKR1UH6 & SKR1U \\
\hline 9001SKR1B Full Guard & Other [70] & SKR1-H13 & SKR1.H5 & SKR1-H6 & SKR1■ \\
\hline & Black & SKR3BH13 & SKR3BH5 & SKR3BH6 & SKR3B \\
\hline & Red & SKR3RH13 & SKR3RH5 & SKR3RH6 & SKR3R \\
\hline & Green & SKR3GH13 & SKR3GH5 & SKR3GH6 & SKR3G \\
\hline & Universal [69] & SKR3UH13 & SKR3UH5 & SKR3UH6 & SKR3U \\
\hline 9001SKR3B
No Guard & Other [70] & SKR3-H13 & SKR3-H5 & SKR3-H6 & SKR3■ \\
\hline & Black & SKR2BH13 & SKR2BH5 & SKR2BH6 & SKR2B \\
\hline & Red & SKR2RH13 & SKR2RH5 & SKR2RH6 & SKR2R \\
\hline & Green & SKR2GH13 & SKR2GH5 & SKR2GH6 & SKR2G \\
\hline & Universal [69] & SKR2UH13 & SKR2UH5 & SKR2UH6 & SKR2U \\
\hline \begin{tabular}{l}
9001SKR2B \\
Extended Guard
\end{tabular} & Other [70] & SKR2■ & SKR2.H5 & SKR2-H6 & SKR2■ \\
\hline \multicolumn{6}{|l|}{Snap-In Mushroom Button} \\
\hline & Black & SKR4BH13 & SKR4BH5 & SKR4BH6 & SKR4B \\
\hline & Red & SKR4RH13 & SKR4RH5 & SKR4RH6 & SKR4R \\
\hline & Red [71] & SKR4R05H13 & SKR4R05H5 & SKR4R05H6 & SKR4R05 \\
\hline & Green & SKR4GH13 & SKR4GH5 & SKR4GH6 & SKR4G \\
\hline & Other [72] & SKR4 4 H13 & SKR4 4 H5 & SKR4 4 H6 & SKR4 \\
\hline \multicolumn{6}{|c|}{Screw-On Mushroom Button with Set Screw Security} \\
\hline 9001SKR4B & Black & SKR24BH13 & SKR24BH5 & SKR24BH6 & SKR24B \\
\hline \(1-3 / 8\) in. ( 35 mm ) & Red & SKR24RH13 & SKR24RH5 & SKR24RH6 & SKR24R \\
\hline Mushroom Button & Green & SKR24GH13 & SKR24GH5 & SKR24GH6 & SKR24G \\
\hline & Other [72] & SKR244H13 & SKR24 4 H5 & SKR24 4 H6 & SKR24 4 \\
\hline \multicolumn{6}{|c|}{Snap-In Mushroom Button, Plastic Head} \\
\hline & Black & SKR5BH13 & SKR5BH5 & SKR5BH6 & SKR5B \\
\hline & Red & SKR5RH13 & SKR5RH5 & SKR5RH6 & SKR5R \\
\hline & Red [71] & SKR5R05H13 & SKR5R05H5 & SKR5R05H6 & SKR5R05 \\
\hline & Green & SKR5GH13 & SKR5GH5 & SKR5GH6 & SKR5G \\
\hline & Other [72] & SKR54H13 & SKR5 4 H5 & SKR5 4 H6 & SKR5 \\
\hline & \multicolumn{5}{|l|}{Screw-On Mushroom Button with Set Screw Security, Plastic Head} \\
\hline \multirow[t]{4}{*}{9001SKR5 2-1/4 in. ( 57 mm ) Mushroom Button} & Black & SKR25BH13 & SKR25BH5 & SKR25BH6 & SKR25B \\
\hline & Red & SKR25RH13 & SKR25RH5 & SKR25RH6 & SKR25R \\
\hline & Green & SKR25GH13 & SKR25GH5 & SKR25GH6 & SKR25G \\
\hline & Other [72] & SKR254H13 & SKR254H5 & SKR254H6 & SKR25 \\
\hline
\end{tabular}

Table 19.249: Color Codes
\begin{tabular}{|c|c|c|}
\hline Color & SKR1, 2, 3 Place Color Code in Type Number & SKR4, 5, 24, 25 Place Color Code in Type Number \\
\hline Blue & L & L \\
\hline Yellow & Y & Y \\
\hline White & W & - \\
\hline Orange & S & S \\
\hline Gray & E & - \\
\hline
\end{tabular}

NOTE: To select and order Contact Blocks, Light Modules, Knobs, and Accessories, see Type KA Contact Blocks, page 19-90 through Hermetically Sealed Power Reed Contact Blocks, page 19-92.
NOTE: For use in hazardous locations-See Square D Offering According to Class, Division, and Group, page 1992. Contact blocks and legend plate not included unless otherwise noted.

Type SK Corrosion Resistant Multifunction Operators
Class 9001 / Refer to Catalog 9001CT1103

30 mm Multifunction Operators UL Types 4, 4X, 13/NEMA 4, 4X, 13
Table 19.250: Non-Illuminated Push-Pull Screw-on Mushroom Operators, Plastic Head[73]
\begin{tabular}{|c|c|c|c|c|c|}
\hline & Description & Color & With 2 N.C. Contacts (1 KA3, 1 KA5) & With 1 N.O. / 1 N.C. Contact (1 KA1) & Without Contacts [74] \\
\hline & \multicolumn{5}{|l|}{3 Position} \\
\hline TOSTART PUSH & \multirow{3}{*}{Momentary PullMaintained NeutralMomentary Push [75]} & Red & SKR8RH25 & - & SKR8R \\
\hline & & Green & SKR8GH25 & - & SKR8G \\
\hline & & Other [76] & SKR84H25 & - & SKR84 \\
\hline & \multicolumn{5}{|l|}{2 Position[77]} \\
\hline & \multirow{3}{*}{Maintained PullMaintained Push} & Red & - & SKR9RH13 & SKR9R \\
\hline 9001SKR9R Non-Illuminated & & Green & - & SKR9GH13 & SKR9G \\
\hline 1-5/8 in. Diameter Knob Includes Type KN179WP Legend Plate Marked Pull To Start Push To Stop & & Other [76] & - & SKR94H13 & SKR9 4 \\
\hline
\end{tabular}

Table 19.251: Non-Illuminated Turn-to-Release Mushroom Operators[73]


Table 19.252: Screw-On Plastic Illuminated Push-Pull Mushroom Operators[73]
\begin{tabular}{|c|c|c|c|c|c|}
\hline Illuminated & Description & Voltage & \begin{tabular}{l}
With Red Knob and 2 N.C. Contacts \\
(1 KA3, 1 KA5) [78]
\end{tabular} & With Other Color Knob and 2 N.C. Contacts [76] [78] & With Other Color Knob Without Contacts [74] [76] [78] \\
\hline \multirow[b]{5}{*}{} & \multicolumn{5}{|l|}{3 Position} \\
\hline & \multirow[b]{3}{*}{Momentary PullMaintained NeutralMomentary Push [79]} & \(110-120 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & SKR8P1RH25 & SKR8P14H25 & SKR8P14 \\
\hline & & Other-Transformer, LED,
Flashing [80] & SKR8P*RH25 & SKR8P* \({ }_{\text {H25 }}\) & SKR8P* \(\triangle\) \\
\hline & & \[
\begin{gathered}
\hline \text { Other-Full Voltage, Resistor, } \\
\text { Neon [75] }
\end{gathered}
\] & SKR8P \(\downarrow\) RH25 & SKR8P4 4 H25 & SKR8P* \(\triangle\) \\
\hline & Description & Voltage & With Red [77] Knob and 1 N.O. \& 1 N.C. Contact (KA1) & With Other Color Knob and 1 N.O. \& 1 N.C. Contact (KA1) [76] & With Other Color Knob Without Contacts [76] \\
\hline \multirow[b]{4}{*}{\begin{tabular}{l}
Illuminated \\
1-5/8 in. Diameter Knob Includes Type KN179WP Legend Plate Marked Pull to Start Push To Stop
\end{tabular}} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{2 Position \(110-120 \mathrm{~V}, 50-60 \mathrm{~Hz}\)}} & & & \\
\hline & & & SKR9P1RH13 & SKR9P14H13 & SKR9P14 \\
\hline & \multirow[t]{2}{*}{Maintained PullMaintained Push} & \[
\begin{gathered}
\hline \text { Other-Transformer, L.E.D., } \\
\text { Flashing [80] } \\
\hline
\end{gathered}
\] & SKR9P*RH13 & SKR9P* \({ }^{\text {H13 }}\) & SKR9P* \(\triangle\) \\
\hline & & Other-Full Voltage, Resistor,
Neon [75] & SKR9P \(\uparrow\) RH13 & SKR9P* \({ }^{\text {H }}\) 13 & SKR9P* \(\triangle\) \\
\hline
\end{tabular}

Table 19.253: Color Codes
\begin{tabular}{c|c|c} 
Color & SKR11, SKR12 & SKR8, SKR9 \\
Black [81] & B & B \\
\hline Red & R & R \\
\hline Green & G & G \\
\hline Blue & L & L \\
\hline Yellow & Y & Y \\
\hline White & W & W \\
\hline Orange \([81]\) & S & S \\
\hline Clear & - & C \\
\hline Amber & - & A \\
\hline Gray & E & - \\
\hline
\end{tabular}

Table 19.254: Positions for 9001SKR8RH1 or H13
\begin{tabular}{c|c|c|c|c}
\multicolumn{2}{c}{} & \multicolumn{3}{|c}{ 9001SKR8RH1 or H13 } \\
\hline \multirow{2}{*}{ (KA1) } & KULL & CTR & PUSH \\
\cline { 2 - 5 } & KA2 & X & O & O \\
\hline
\end{tabular}

Table 19.255: Positions for 9001SKR8H25
\begin{tabular}{c|c|c|c} 
& 9001SKR8H25 & CTR & PUSH \\
\hline KA3 & \(X\) & \(O\) & \(O\) \\
\hline KA5 & \(X\) & X & 0 \\
\hline KA2 & 0 & \(O\) & \(X\) \\
\hline
\end{tabular}

NOTE: To select and order Contact Blocks, Light Modules, Knobs, and Accessories, see Type KA Contact Blocks, page 19-90 through Hermetically Sealed Power Reed Contact Blocks, page 19-92.
[73] When ordering, add prefix 9001 to the catalog number.
[74] These operators can be ordered complete with contact blocks. For maximum block usage, see lable 19.280 " H " Codes, page 1y- 93 . Add the chosen " H " number to the end of the operator.
[75] On neon light modules, use clear knobs only.
[76] \(\boldsymbol{\Delta}\) See Table 19.253 Color Codes, page 19-83 and insert the color code in the Type number. Example: SKR9() with a yellow knob = SKR9Y
[77] To obtain a red knob with "Push Emergency Stop" printed on the red knob-substitute " \(R 05\) " in place of " \(R\) "
[78] Add the voltage assembly code as chosen from Standard and Shallow Depth Light Modules, page 19-91. Example: SKR8P* with 277 V 50-60 Hz = SKR8P8
[79] For positions, refer to Table 19.254 Positions for 9001SKR8RH1 or H13, page 19-83 and Table 19.255 Positions for 9001SKR8H25, page 19-83.
[80] The knob must be the same color as the LED light module chosen, for example, for a green LED, use a green knob.
[81] These colors are not available on illuminated push-pull operators.

Class 9001 / Refer to Catalog 9001CT1103
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Type SK Corrosion Resistant Illuminated Operators
Table 19.256: Illuminated Push Button Operators
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{Description} & Voltage and Frequency & Style & With Red Color Cap and 1 N.O. and 1 N.C. Contact (KA1) [82] & With Green Color Cap and 1 N.O. and 1 N.C. Contact (KA1) [82] & With Other
Color Cap
Without
Contact Blocks
[83] [82] \\
\hline \multirow[b]{7}{*}{9001SK1L1} & \multirow{7}{*}{Full Guard Illuminated Push Button} & \(110-120 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & SK1L1RH13 & SK1L1GH13 & SK1L1 \\
\hline & & \(220-240 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & SK1L7RH13 & SK1L7GH13 & SK1L7 \\
\hline & & 24-28 Vac/Vdc & Full Voltage & SK1L35RH13 & SK1L35GH13 & SK1L35 \\
\hline & & \multirow{4}{*}{For other voltages See Table [84]} & Transformer, Flashing & SK1L.RH13 & SK1L.GH13 & SK1L \\
\hline & & & Full Voltage & SK1L.RH13 & SK1L.GH13 & SK1L \\
\hline & & & Resistor, Neon [85] & SK1L.RH13 & SK1L GH13 & SK1L \\
\hline & & & LED [86] & SK1LeRH13 & SK1L.GH13 & SK1L. [87] \\
\hline \multirow[b]{7}{*}{9001SK2L1} & \multirow{7}{*}{No Guard Illuminated Push Button} & \(110-120 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & SK2L1RH13 & SK2L1GH13 & SK2L1 \\
\hline & & \(220-240 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & SK2L7RH13 & SK2L7GH13 & SK2L7 \\
\hline & & 24-28 Vac/Vdc & Full Voltage & SK2L35RH13 & SK2L35GH13 & SK2L35 \\
\hline & & \multirow{4}{*}{For other voltages See Table [84]} & Transformer, Flashing & SK2L RH13 & SK2LIGH13 & SK2L \\
\hline & & & Full Voltage & SK2L.RH13 & SK2L.GH13 & SK2L \\
\hline & & & Resistor, Neon [85] & SK2L.RH13 & SK2L.GH13 & SK2L ! \\
\hline & & & LED[86] & SK2LeRH13 & SK2L.GH13 & SK2L [ [87] \\
\hline \multirow[b]{7}{*}{9001SK2L1R20} & \multirow{7}{*}{1-3/8 in. ( 35 mm ) Illuminated Mushroom, Screw-On Plastic Head} & \(110-120 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & SK2L1R20H13 & SK2L1G20H13 & \multirow{7}{*}{\[
\begin{gathered}
\text { Order SK2L■ } \\
{[87][88]}
\end{gathered}
\]} \\
\hline & & \(220-240 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & SK2L7R20H13 & SK2L7G20H13 & \\
\hline & & \(24-28 \mathrm{Vac} / \mathrm{Vdc}\) & Full Voltage & SK2L35R20H13 & SK2L35G20H13 & \\
\hline & & \multirow{4}{*}{For other voltages See Table [84]} & Transformer, Flashing & SK2L.R20H13 & SK2L.G20H13 & \\
\hline & & & Full Voltage & SK2L-R20H13 & SK2L.G20H13 & \\
\hline & & & Resistor, Neon [85] & SK2L R20H13 & SK2L.G20H13 & \\
\hline & & & LED [86] & SK2L-R20H13 & SK2L.G20H13 & \\
\hline & \multirow{7}{*}{2-1/4 in. ( 57 mm ) Illuminated Mushroom, Screw-On Plastic Head} & \(110-120 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & SK2L1R21H13 & SK2L1G21H13 & \multirow{7}{*}{\[
\underset{[87][88]}{\text { Order SK2L■ }}
\]} \\
\hline & & \(220-240 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & SK2L7R21H13 & SK2L7G21H13 & \\
\hline & & 24-28 Vac/Vdc & Full Voltage & SK2L35R21H13 & SK2L35G21H13 & \\
\hline & & \multirow{4}{*}{For other voltages See Table [84]} & Transformer, Flashing & SK2L R21H13 & SK2L G21H13 & \\
\hline & & & Full Voltage & SK2L.R21H13 & SK2L G21H13 & \\
\hline & & & Resistor, Neon [85] & SK2L.R21H13 & SK2L.G21H13 & \\
\hline 9001SK2L1R21 & & & LED [86] & SK2L.R21H13 & SK2L.G21H13 & \\
\hline
\end{tabular}

Table 19.257: Color Caps
\begin{tabular}{|c|c|c|c|}
\hline \multirow[b]{2}{*}{Color} & \multicolumn{3}{|c|}{Color Codes} \\
\hline & SK1L/SK2L & \[
1-3 / 8 \mathrm{in} .(35 \mathrm{~mm})
\]
Mushroom & \begin{tabular}{l}
2-1/4 in. (57 mm) \\
Mushroom
\end{tabular} \\
\hline Red & R & R20 & R21 \\
\hline Green & G & G20 & G21 \\
\hline Blue & L & L20 & L21 \\
\hline Yellow & Y & Y20 & Y21 \\
\hline White & W & W20 & W21 \\
\hline Clear & C & C20 & C21 \\
\hline Amber & A & A20 & A21 \\
\hline
\end{tabular}

NOTE: To select and order Contact Blocks, Light Modules, Knobs, and Accessories, see Type KA Contact Blocks, page 19-90 through Hermetically Sealed Power Reed Contact Blocks, page 19-92.
NOTE: For use in hazardous locations-See Square D Offering According to Class, Division, and Group, page 1992. Contact blocks and legend plate not included unless otherwise noted.
[82] When ordering, add prefix 9001 to the catalog number.
[83] These operators can be ordered complete with contact blocks. For maximum block usage, see Iable 19.280 " \(H\) " Codes, page 19 - 93 . Add the " H " number to the end of the operator type number.
[84] Add the voltage assembly code as chosen from Standard and Shallow Depth Light Modules, page 19-91. EXAMPLE: SK2L with 240 Vac/Vdc = SK2L25.
[85] On neon light modules, use clear color caps only.
[86] Add the color code as chosen from the color cap table below. EXAMPLE: SK2L25 with a blue 1-3/8 in. mushroom button = SK2L25L20
[87] The cap must be the same color as the LED light module chosen, e.g., for green LED, use green color cap.
[88] The only difference between a no guard (SK2L) operator and mushroom button operator is the color cap.

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9001SK Corrosion Resistant Selector Switches
Class 9001 / Refer to Catalog 9001CT1103

9001SK 2-Position Selector Switches
Table 19.258: 2-Position Selector Switches


Table 19.259: Selector Switch Assembly Code and Knob Cat. No.

\begin{tabular}{l|c|c|c|c}
\multirow{2}{*}{ Color } & \multicolumn{2}{|c|}{ Standard Knob } & \multicolumn{2}{c}{ Gloved Hand Knob } \\
\cline { 2 - 5 } & Knob Code & Cat. No. [89] & Knob Code & Cat. No. [89] \\
\hline Black & B & B11 & FB & B25 \\
\hline Red & R & R8 & FR & R24 \\
\hline Green & G & G8 & FG & G24 \\
\hline Yellow & Y & Y8 & FY & Y24 \\
\hline Blue & L & L8 & FL & L24 \\
\hline White & W & W8 & FW & W24 \\
\hline Amber & A & A8 & FA & A24 \\
\hline Clear & C & C8 & FC & C24 \\
\hline
\end{tabular}

\footnotetext{
Contact Blocks: Contact Blocks, page 19-90,Hermetically Sealed Logic Reed Contact Blocks, page 19-92, Hermetically Sealed Power Reed Contact Blocks, page 19-92
Light Modules:Standard Light Modules, page 19-91
Knobs and Accessories:Additional Accessories for Type K and SK Operators, page 19-99
}
[89] When ordering, add prefix 9001 to the catalog number.
[90] These operators can be ordered complete with contact blocks. For maximum block usage, see Table 19.280 " H " Codes, page 19-93. Add the chosen " H " number to the end of the operator.
[91] Add the knob color code chosen from Table 19.259 Selector Switch Assembly Code and Knob Cat. No., page 19-85. For LED, knob color must match LED.
[92] Add the voltage assembly code as chosen from Standard Light Modules, page 19-91. Example: K25J with 208Vac = K25J3

Class 9001 / Refer to Catalog 9001CT1103

9001SK 3-Position Selector Switches
Table 19.260: 3-Position Selector Switches



Table 19.261: Selector Switch Assembly Code and Knob Cat. No.
\begin{tabular}{l|c|c|c|c}
\multirow{2}{*}{ Color } & \multicolumn{2}{|c|}{ Standard Knob } & \multicolumn{2}{c}{ Gloved Hand Knob } \\
\cline { 2 - 5 } & [98] Knob Code & Cat. No. [93] & [98] Knob Code & Cat. No. [93] \\
\hline Black & B & B11 & FB & B25 \\
\hline Red & R & R8 & FR & R24 \\
\hline Green & G & G8 & FG & G24 \\
\hline Yellow & Y & Y8 & FY & Y24 \\
\hline Blue & L & L8 & FL & L24 \\
\hline White & W & W8 & FW & W24 \\
\hline Amber & A & A8 & FA & A24 \\
\hline Clear & C & C8 & FC & C24 \\
\hline
\end{tabular}

\footnotetext{
Contact Blocks: Contact Blocks, page 19-90,Hermetically Sealed Logic Reed Contact Blocks, page 19-92,
Hermetically Sealed Power Reed Contact Blocks, page 19-92
Light Modules:Standard Light Modules, page 19-91
Knobs and Accessories:Additional Accessories for Type K and SK Operators, page 19-99
}
[93] When ordering, add prefix 9001 to the catalog number.
[94] These operators can be ordered complete with contact blocks. Add the "H code" from Table 19.280 " H " Codes, page 19-93 as needed for your application.
[95] Add the knob color code chosen from the Selector Switch Assembly Code table. For LED, knob color must match LED.
[96] For other color knobs replace the B with knob color code. See Table 19.261 Selector Switch Assembly Code and Knob Cat. No., page 19-86
[97] Add the voltage assembly code as chosen from Standard Light Modules, page 19-91. Example: K25J with 208Vac = K25J3
[98] Add the knob color code. For LED, knob color must match LED.

\section*{9001SK 4-Position Selector Switches}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{7}{|c|}{Contact Block Required} & \multicolumn{4}{|c|}{\begin{tabular}{l}
1- Contact Closed \\
0-Contact Open
\end{tabular}} \\
\hline Contact Block Position & \multicolumn{3}{|c|}{Quantity and Type} & \multicolumn{3}{|c|}{Mount on Side} & \(k\) & N & \(\pi\) & 7 \\
\hline  & \multirow[t]{2}{*}{\[
\begin{aligned}
& \text { KA1 } \\
& \circ 10 \\
& \hdashline 0 \quad 0
\end{aligned}
\]} & \multirow[b]{2}{*}{or} & \[
\begin{aligned}
& \text { KA3 } \\
& \hline
\end{aligned}
\] & \multirow[b]{2}{*}{KA1} & \multirow[b]{2}{*}{or} & \[
\begin{gathered}
\text { KA3 } \\
\# 2
\end{gathered}
\] & 1 & 0 & 0 & 0 \\
\hline  & & & \[
\begin{aligned}
& \text { KA2 } \\
& =1
\end{aligned}
\] & & & \[
\begin{gathered}
\text { KA2 } \\
\# 2
\end{gathered}
\] & 0 & 0 & 1 & 0 \\
\hline  & \multirow[b]{2}{*}{\[
\begin{aligned}
& \text { KA1 } \\
& \circ \quad 10
\end{aligned}
\]} & \multirow[b]{2}{*}{or} & \[
\begin{aligned}
& \text { KA3 } \\
& 0 \\
& \hline
\end{aligned}
\] & \multirow[b]{2}{*}{\[
\underset{\# 1}{\text { KA1 }}
\]} & \multirow[b]{2}{*}{or} & \[
\begin{gathered}
\text { KA3 } \\
\# 1
\end{gathered}
\] & 0 & 0 & 0 & 1 \\
\hline \begin{tabular}{l}
Operator Notch \\
Top View
\end{tabular} & & & \[
\begin{aligned}
& \text { KA2 } \\
& \frac{1}{0}
\end{aligned}
\] & & & \[
\underset{\# 1}{\text { KA2 }}
\] & 0 & 1 & 0 & 0 \\
\hline \multicolumn{7}{|l|}{Cam (see Type K, KX, and SK Selector Switch Guide, page 19-78)} & \multicolumn{4}{|c|}{H} \\
\hline \multicolumn{7}{|l|}{Non-Illuminated Operators} & \multicolumn{4}{|c|}{Type [99]} \\
\hline \multicolumn{11}{|l|}{Manual Return [100], Operator Only (without contact blocks)} \\
\hline \multicolumn{7}{|l|}{Without Knob} & \multicolumn{4}{|c|}{SKS88} \\
\hline \multicolumn{7}{|l|}{With other Color Knob [101]} & \multicolumn{4}{|c|}{SKS88*} \\
\hline \multicolumn{2}{|l|}{Illuminated Operators} & \multicolumn{9}{|l|}{} \\
\hline \multicolumn{11}{|l|}{Manual Return [100], Operator Only (without contact blocks)} \\
\hline \multicolumn{7}{|l|}{Without Knob, 110-120V \(50-60 \mathrm{~Hz}\) Transformer} & \multicolumn{4}{|c|}{SK88J1} \\
\hline \multicolumn{7}{|l|}{With Standard Red Knob, 110-120V 50-60 Hz Transformer} & \multicolumn{4}{|c|}{SK88J1R} \\
\hline \multicolumn{7}{|l|}{With other Color Knob [101] and other Voltage Light Module [102]} & \multicolumn{4}{|c|}{SK88Ju*} \\
\hline
\end{tabular}


Table 19.263: Selector Switch Assembly Code and Knob Cat. No.
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Color} & \multicolumn{2}{|c|}{Standard Knob} & \multicolumn{2}{|l|}{Gloved Hand Knob} \\
\hline & [103] Knob Code & Cat. No. [99] & [103] Knob Code & Cat. No. [99] \\
\hline Black & B & B11 & FB & B25 \\
\hline Red & R & R8 & FR & R24 \\
\hline Green & G & G8 & FG & G24 \\
\hline Yellow & Y & Y8 & FY & Y24 \\
\hline Blue & L & L8 & FL & L24 \\
\hline White & W & W8 & FW & W24 \\
\hline Amber & A & A8 & FA & A24 \\
\hline Clear & C & C8 & FC & C24 \\
\hline
\end{tabular}

For Contact Blocks, see Contact Blocks, page 19-90,Hermetically Sealed Logic Reed Contact Blocks, page 19-92, Hermetically Sealed Power Reed Contact Blocks, page 19-92
For Light Modules, see Standard Light Modules, page 19-91
For Knobs and Accessories, see Additional Accessories for Type K and SK Operators, page 19-99
Potentiometers with Dial Plate
Table 19.264: Potentiometers with Dial Plate (not UL listed)—Maximum Voltage 300 Vac
\begin{tabular}{|c|c|c|c|}
\hline Power & Description & Ratings & Type \\
\hline \multirow{4}{*}{2 W} & Operator Only, for Single Potentiometer & \multirow{4}{*}{NEMA 4, 13} & SK20 \\
\hline & Operator with Single Potentiometer & & SK21 \\
\hline & Operator Only, for Tandem Potentiometer & & SK22 \\
\hline & Operator with Tandem Potentiometer & & SK23 \\
\hline
\end{tabular}

Table 19.265: Potentiometer Suffixes
\begin{tabular}{|c|c|c|c|}
\hline \multicolumn{4}{|l|}{Single Potentiometer} \\
\hline Suffix [104] & Resistance & Suffix [104] & Resistance \\
\hline 01 & \(50 \Omega\) & 07 & 5 k ת \\
\hline 02 & \(100 \Omega\) & 08 & \(10 \mathrm{k} \Omega\) \\
\hline 04 & \(500 \Omega\) & 09 & \(25 \mathrm{k} \Omega\) \\
\hline 05 & \(1 \mathrm{k} \Omega\) & 13 & \(500 \mathrm{k} \Omega\) \\
\hline 39 & \(2 \mathrm{k} \Omega\) & 37 & \(750 \mathrm{k} \Omega\) \\
\hline 06 & \(2.5 \mathrm{k} \Omega\) & 14 & \(1 \mathrm{M} \Omega\) \\
\hline \multicolumn{4}{|l|}{Tandem Potentiometer} \\
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Suffix [104]}} & \multicolumn{2}{|r|}{Resistance} \\
\hline & & Front & Rear \\
\hline 82 & & \(1 \mathrm{k} \Omega\) & \(1 \mathrm{k} \Omega\) \\
\hline
\end{tabular}

NOTE: Any potentiometer with a shaft \(7 / 8\) in. long and \(1 / 4 \mathrm{in}\). diameter may be used with these operators.
[99] When ordering, add prefix 9001 to the catalog number
[100] These operators can be ordered complete with contact blocks. Add the "H code" from lable 19.28u "H" Codes, page 19-93 as needed for your application.
[101] - Add the knob color code chosen from the Selector Switch Assembly Code table. For LED, knob color must match LED
[102] ■ Add the voltage assembly code as chosen from Standard Light Modules, page 19-91. Example: K25J with 208Vac = K25J3
[103] Add the knob color code from Table 19.237. For LED, knob color must match LED
[104] For the complete part number, add the suffix from this table to the catalog number from Table 19.264 Potentiometers with Dial Plate, page 19-87. Example: 9001K2105
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\section*{Type SK Corrosion Resistant Pilot Lights}

Table 19．266：Pilot Lights—UL Types 4，4X，［105］
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{Description} & Voltage & Style & With Red
Fresnel Color
Cap［106］ & With Green Fresnel Color Cap［106］ & With Other Color Cap ［106］［107］ & \[
\begin{aligned}
& \text { Without } \\
& \text { Color Cap } \\
& {[106]}
\end{aligned}
\] \\
\hline & \multirow{5}{*}{Standard Pilot Light （Fresnel color cap shown）} & \[
\begin{array}{|l}
\begin{array}{l}
110-120 \mathrm{~V}, 50-60 \\
\mathrm{~Hz}
\end{array} \\
\hline
\end{array}
\] & Transformer & SKP1R31 & SKP1G31 & SKP1． & SKP1 \\
\hline NTir 9001skP1 & & \[
\begin{array}{|l|l|}
\hline 220-240 \mathrm{~V}, 50-60 \\
\mathrm{~Hz}
\end{array}
\] & Transformer & SKP7R31 & SKP7G31 & SKP7． & SKP7 \\
\hline 9001SKP1 & & 24－28 Vac／Vdc & Full Voltage & SKP35R31 & SKP35G31 & SKP35■ & SKP35 \\
\hline & & \multirow[t]{2}{*}{For other voltages ［106］} & Transformer，Flashing or LED［108］ & SKP\R31 & SKP\G31 & SKPı & SKP\ \\
\hline & & & Full Voltage，Neon or Resistor［109］ & SKP\R31 & SKP\G31 & SKP\■ & SKP\ \\
\hline \multirow{4}{*}{9001SKT1} & \multirow{5}{*}{Push－To－Test Pilot Light （Fresnel color cap shown）} & \[
\begin{array}{|l|}
\hline 110-120 \mathrm{~V}, 50-60 \\
\mathrm{~Hz}
\end{array}
\] & Transformer & SKT1R31 & SKT1G31 & SKT1． & SKT1 \\
\hline & & \[
\begin{array}{|l}
\hline 220-240 \mathrm{~V}, 50-60 \\
\mathrm{~Hz} \\
\hline
\end{array}
\] & Transformer & SKT7R31 & SKT7G31 & SKT7• & SKT7 \\
\hline & & 24－28 Vac／Vdc & Full Voltage & SKT35R31 & SKT35G31 & SKT35■ & SKT35 \\
\hline & & \multirow[t]{2}{*}{For other voltages ［106］} & Transformer，Flashing or LED［108］ & SKT\R31 & SKT\G31 & SKTA！ & SKTA \\
\hline & & & Full Voltage，Neon or Resistor［109］ & SKT\R31 & SKT\G31 & SKTA！ & SKTA \\
\hline & \multirow[b]{3}{*}{Remote Test Pilot Light （Fresnel color cap shown）} & 120 Vac Only & Resistor & SKTR38R31 & SKTR38G31 & SKTR38■ & SKTR38 \\
\hline 9001SKTR38 & & 24－28 Vac Only & Full Voltage & SKTR35R31 & SKTR35G31 & SKTR35■ & SKTR35 \\
\hline  & & For other voltages ［106］［107］［110］ & Full Voltage or Resistor［111］ & SKTR\R31 & SKTR』 \({ }^{\text {a }}\) 31 & SKTR』■ & SKTR】 \\
\hline
\end{tabular}

Table 19．267：Color Caps
\begin{tabular}{c|c|c} 
Color & Plastic Fresnel［112］ & Plastic Domed［112］ \\
Amber & A31 & A9 \\
Blue & L31 & L9 \\
Clear & C31 & C9 \\
Green & G31 & G9 \\
Red & R31 & R9 \\
White & W31 & W9 \\
Yellow & Y31 & Y9 \\
\hline
\end{tabular}

Typical Wiring Diagram


NOTE：To select and order Contact Blocks，Light Modules，Knobs，and Accessories，see Type KA Contact Blocks， page 19－90 through Hermetically Sealed Power Reed Contact Blocks，page 19－92．
NOTE：For use in hazardous locations－See Square D Offering According to Class，Division，and Group，page 19－ 92．Contact blocks and legend plate not included unless otherwise noted．
［110］Use only full voltage or resistor voltage assembly codes on remote test pilot lights．Do not choose LED，neon or transformer codes．For AC use only．
［111］Use only full voltage or resistor voltage assembly codes on remote test pilot lights．Do not choose LED（exception－these LED codes are allowed：38LG，38LL，38LR，38LW，38LY），neon or transformer codes．For AC use only．
［112］Add the color code as chosen from the color cap table below．EXAMPLE：SKP1 with a blue fresnel cap＝SKP1L31．

Type SK Corrosion Resistant Multifunction Operators
Table 19.268: Multifunction Operators-UL Types 4, 4X, 13/NEMA 4, 4X, 13 [1133[114]
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[t]{5}{*}{Interlocked Assembly} & & Description & Color & Contacts [115] & Without Contacts [115] \\
\hline & \multirow{4}{*}{9001SKR11U} & \multirow[t]{2}{*}{Interlocked Assembly Both Buttons Maintained} & Universal [116] & SKR11UH1 & SKR11U \\
\hline & & & Other [117] & SKR11-H1 & SKR11 V \\
\hline & & Interlocked Assembly One Button Momentary & Universal [116] & SKR12UH1H1 & SKR12U \\
\hline & & Interlocked Assembly One Button Maintained & Other [117] & SKR12vH1H1 & SKR12 V \\
\hline
\end{tabular}
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Table 19.269: Standard Contact Blocks
\begin{tabular}{cc} 
Description & Symbol \\
KA1 \\
(Clear Cover)
\end{tabular}

Table 19.270: Additional Circuit Arrangements
\begin{tabular}{|c|c|c|c|}
\hline Description & \multicolumn{2}{|c|}{Symbol} & Type \\
\hline Sequencing [118] N.O. Contact of KA4 closes before N.O. Contact on KA1 &  & \[
\begin{aligned}
& \text { OIO } \\
& \hline \text { KA1 }
\end{aligned}
\] & Order One Type KA4 and One Type KA1 \\
\hline Overlapping [118] N.O. Contact of KA4 closes before N.C. Contact of KA5 Opens & \[
\frac{\mathrm{OL}}{\substack{\mathrm{OH} \\ \text { OHA4 }}}
\] & \[
\frac{\text { OLI }}{\text { KA5 }}
\] & Order One Type KA4 and One Type KA5 \\
\hline
\end{tabular}

\section*{Type KA Contact Blocks}

The Class 9001 Type KA contact blocks are Fingersafe \(®\) contact blocks (meeting VDE 0106 Part 100). They have one screw mounting and captive (backed out) plus/minus terminal screws. These contact blocks are double-break, direct-acting contacts. Because of the wiping action of these contacts, they are suitable for use with programmable controllers. All contact blocks listed below accept up to 2 \#12-\#24 AWG solid or stranded wires. Recommended tightening torque for screw terminals is \(7 \mathrm{lb}-\mathrm{in}\).
\begin{tabular}{|c|c|c|c|}
\hline \multirow[t]{2}{*}{Symbol} & \multicolumn{2}{|c|}{Contact Blocks with Binder Head Screws (not Fingersafe)} & \begin{tabular}{l}
Gold Flashed Contacts with Standard \\
Pressure Wire Terminals
\end{tabular} \\
\hline & Type [119] & Quantity [120] & Type [119] \\
\hline \[
\frac{0}{010}
\] & KA21 & 25-Up & KA31 \\
\hline \(\bigcirc\) & KA22 & 25-Up & KA32 \\
\hline -10 & KA23 & 25-Up & KA33 \\
\hline  & KA24 & 25-Up & KA34 \\
\hline N.C. Contact Late Opening & KA25 & 25-Up & KA35 \\
\hline
\end{tabular}

\section*{Contact blocks listed below are not Fingersafe, but provide:}
- Terminals that accept ring tongue/fork tongue connectors
- Short single circuit contact blocks (0.75" deep vs. 0.97 " deep on the Fingersafe)
- Same as old style Series G product available prior to March, 1989.
- For assembled operators, use form Y238 (add to catalog number as suffix, for example: \(9001 \mathrm{KRU1H13Y238)}\)


Table 19.271: Contact blocks (not Fingersafe)
\begin{tabular}{|c|c|c|c|}
\hline Symbol & Type [119] & Symbol & Type [119] \\
\hline \[
\frac{0}{0}
\] & KA1G & N.O. Contact Early Closing & KA4G \\
\hline \[
10
\] & KA2G & N.C. Contact Late Opening & KA5G \\
\hline -10 & KA3G & N.O. Contact Early Closing & KA6G \\
\hline
\end{tabular}

Table 19.272: Contact blocks with Quick-Connect terminals (not Fingersafe)
\begin{tabular}{c|c} 
Symbol & Type [119] \\
\hline\(\square \mathrm{O}\) & KA12 \\
\hline 010 & KA13 \\
\hline
\end{tabular}

Table 19.273: Maximum Current Ratings for Control Circuit Contacts—Types KA1-KA6, KA21-KA25, KA31-KA35, KA1G-KA6G
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow{4}{*}{Volts} & \multicolumn{6}{|c|}{AC} & \multirow{4}{*}{Volts} & \multicolumn{5}{|c|}{DC} \\
\hline & \multicolumn{5}{|r|}{Inductive (NEMA / UL Type A600) 35\% Power Factor} & \multirow[t]{3}{*}{Resistive 75\% Power Factor Make, Break and Continuous Amperes} & & \multicolumn{5}{|c|}{Inductive and Resistive (NEMA Q600)} \\
\hline & \multicolumn{2}{|c|}{Make} & \multicolumn{2}{|c|}{Break} & \multirow[t]{2}{*}{Continuous Carrying Amperes} & & & \multicolumn{4}{|c|}{Make and Break} & \multirow[t]{2}{*}{Continuous Carrying Capacity} \\
\hline & Amperes & VA & Amperes & VA & & & & KA1 & \[
\begin{aligned}
& \text { KA2 } \\
& \text { KA3 }
\end{aligned}
\] & KA4 & \[
\begin{aligned}
& \text { KA5 } \\
& \text { KA6 }
\end{aligned}
\] & \\
\hline 120 & 60 & \multirow{4}{*}{7200} & 6.0 & \multirow{4}{*}{720} & \multirow{4}{*}{10} & \multirow{4}{*}{10} & 125 & 0.55 & 0.55 & - & - & \multirow{4}{*}{2.5} \\
\hline 240 & 30 & & 3.0 & & & & 250 & 0.27 & 0.27 & - & - & \\
\hline 480 & 15 & & 1.5 & & & & 600 & 0.10 & 0.10 & - & - & \\
\hline 600 & 12 & & 1.2 & & & & & & & & & \\
\hline
\end{tabular}

\section*{Standard and Shallow Depth Light Modules}

Table 19.274: Standard Light Modules for Types K, SK, and KX Control Units[121][122][123][124]
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline & \multirow[b]{2}{*}{Voltage} & \multirow[b]{2}{*}{Description} & Light Module & \multirow[t]{2}{*}{Voltage Assembly Code} & \multirow[b]{2}{*}{Rating} & \multirow[t]{2}{*}{\begin{tabular}{l}
Replacement Lamp \\
Part Number [121]
\end{tabular}} \\
\hline & & & Type[125] & & & \\
\hline & All & Full Voltage (without Bayonet Base Lamp) & KM40 & 40 & - & None \\
\hline & \(6 \mathrm{Vac} / \mathrm{Vdc}\) & Full Voltage & KM31 & 31 & . 9 VA & 2550101020 \\
\hline & \(6 \mathrm{Vac} / \mathrm{Vdc}\) & LED Red & KM31LR & 31LR & & 6508805201 \\
\hline & \(6 \mathrm{Vac} / \mathrm{Vdc}\) & LED Green & KM31LG & 31LG & & 6508805203 \\
\hline & \(6 \mathrm{Vac} / \mathrm{Vdc}\) & LED Yellow & KM31LY & 31LY & & 6508805202 \\
\hline & 12-14 Vac/Vdc & Full Voltage & KM32 & 32 & 1.2 VA & 2550101037 \\
\hline & 12-14 Vac/Vdc & LED Red & KM32LR & 32LR & & 6508805201 \\
\hline & 12-14 Vac/Vdc & LED Green & KM32LG & 32LG & & 6508805203 \\
\hline & 12-14 Vac/Vdc & LED Yellow & KM32LY & 32LY & & 6508805202 \\
\hline & \(18 \mathrm{Vac} / \mathrm{Vdc}\) & Resistor & KM33 & 33 & 1.4 VA & 2550101037 \\
\hline & 24-28 Vac/Vdc & Full Voltage & KM35 & 35 & 1.2 VA & 2550101002 \\
\hline & 24-28 Vac/Vdc & LED Red & KM35LR & 35LR & . 28 VA & 6508805210 \\
\hline & 24-28 Vac/Vdc & LED Green & KM35LG & 35LG & 28 VA & 6508805212 \\
\hline & 24-28 Vac/Vdc & LED Yellow & KM35LY & 35LY & 28 VA & 6508805211 \\
\hline & 24-28 Vac/Vdc & LED White & KM35LW & 35LW & 28 VA & 6508805214 \\
\hline & 24-28 Vac/Vdc & LED Blue & KM35LL & 35LL & . 28 VA & 6508805213 \\
\hline & \(48 \mathrm{Vac} / \mathrm{Vdc}\) & Full Voltage & KM36 & 36 & 2.6 VA & 2550101025 \\
\hline & \(110-120 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & LED Red & KM1LR & 1LR & & 6508805201 \\
\hline & \(110-120 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & LED Green & KM1LG & 1LG & & 6508805203 \\
\hline -20 & \(110-120 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & LED Yellow & KM1LY & 1LY & & 6508805202 \\
\hline & \(110-120 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & KM1 & 1 & 2.4 VA & 2550101020 \\
\hline & \(110-120 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Flashing & KMF1 & F1 & . 85 VA & 2550101036 \\
\hline & \(120 \mathrm{Vac} / \mathrm{Vdc}\) & Full Voltage/Resistor & KM38 & 38 & 3.0 VA & 2550101027 \\
\hline & \(120 \mathrm{Vac} / \mathrm{Vdc}\) & Neon [126] & KM11 & 11 & 0.2 VA & 2550101013 \\
\hline & \(120 \mathrm{Vac} / \mathrm{Vdc}\) & LED Red & KM38LR & 38LR & 1.4 VA & 6508805210 \\
\hline & \(120 \mathrm{Vac} / \mathrm{Vdc}\) & LED Green & KM38LG & 38LG & 1.4 VA & 6508805212 \\
\hline & \(120 \mathrm{Vac} / \mathrm{Vdc}\) & LED Yellow & KM38LY & 38LY & 1.4 VA & 6508805211 \\
\hline & \(120 \mathrm{Vac} / \mathrm{Vdc}\) & LED White & KM38LW & 38LW & 1.4 VA & 6508805214 \\
\hline & \(120 \mathrm{Vac} / \mathrm{Vdc}\) & LED Blue & KM38LL & 38LL & 1.4 VA & 6508805213 \\
\hline & 208-220 V, \(50-60 \mathrm{~Hz}\) & Transformer & KM3 & 3 & 2.5 VA & 2550101020 \\
\hline & \(208-220 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & LED Red & KM3LR & 3LR & & 6508805201 \\
\hline & \(208-220 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & LED Green & KM3LG & 3LG & & 6508805203 \\
\hline & \(208-220 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & LED Yellow & KM3LY & 3LY & & 6508805202 \\
\hline & 208-220 V, 50-60 Hz & LED White & KM3LW & 3LW & & 6508805215 \\
\hline & \(208-220 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & LED Blue & KM3LL & 3LL & & 6508805216 \\
\hline & \(220-240 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & KM7 & 7 & 2.0 VA & 2550101020 \\
\hline & \(220-240 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & LED Red & KM7LR & 7LR & & 6508805201 \\
\hline & \(220-240 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & LED Green & KM7LG & 7LG & & 6508805203 \\
\hline & \(220-240 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & LED Yellow & KM7LY & 7LY & & 6508805202 \\
\hline & 220-240 V, 50-60 Hz & LED White & KM7LW & 7LW & & 6508805215 \\
\hline & \(220-240 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & LED Blue & KM7LL & 7LL & & 6508805216 \\
\hline & \(240 \mathrm{Vac} / \mathrm{Vdc}\) & Resistor & KM25 & 25 & 6.0 VA & 2550101027 \\
\hline & \(240 \mathrm{Vac} / \mathrm{Vdc}\) & Neon [126] & KM12 & 12 & 0.3 VA & 2550101013 \\
\hline & 277 V, 50-60 Hz & Transformer & KM8 & 8 & 2.4 VA & 2550101020 \\
\hline & \(380-480 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & KM5 & 5 & 2.8 VA & 2550101020 \\
\hline & \(480 \mathrm{Vac} / \mathrm{Vdc}\) & Neon [126] & KM14 & 14 & 0.5 VA & 2550101013 \\
\hline & \(550-600 \mathrm{~V}, 50-60 \mathrm{~Hz}\) & Transformer & KM6 & 6 & 2.5 VA & 2550101020 \\
\hline
\end{tabular}

NOTE: Light modules are available in other voltages. For additional information, refer to Catalog 9001CT0001.
Table 19.275: Shallow Depth Light Modules For Types K and SK Control Units [121] [123] [127] [122]
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{} & \multirow[b]{2}{*}{Voltage} & \multirow[b]{2}{*}{Description} & Light Module & \multirow[t]{2}{*}{Voltage Assembly Code} & \multirow[b]{2}{*}{Rating} & Replacement Lamp \\
\hline & & & Type[125] & & & Part Number \\
\hline & & Full Voltage & KM55 & 55 & 1.2 VA & 2550101002 \\
\hline  & 24-28 Vac/Vdc & LED Red LED Green LED Yellow & \begin{tabular}{l}
KM55LR \\
KM55LG \\
KM55LY
\end{tabular} & 55LR 55LG 55LY & 0.5 VA & \[
\begin{aligned}
& 6508805204 \\
& 6508805206 \\
& 6508805205
\end{aligned}
\] \\
\hline & & Full Voltage & KM58 & 58 & 3.0 VA & 2550101027 \\
\hline  & 110-120 Vac/Vdc & LED Red LED Green LED Yellow & \begin{tabular}{l}
KM58LR \\
KM58LG \\
KM58LY
\end{tabular} & \[
\begin{aligned}
& \text { 58LR } \\
& 58 \mathrm{LG} \\
& 58 \mathrm{LY}
\end{aligned}
\] & 0.5 VA & 6508805204 6508805206 6508805205 \\
\hline
\end{tabular}

Hazardous locations do not always require the use of explosion-proof equipment like the Class 9001 Type BR control stations. Selecting the most appropriate device for the location can save you money. For more information on the types of hazardous locations, contact your local electrical inspector.

Table 19.276: Hazardous Locations
Types
K, SK \(\mathrm{U}_{\boldsymbol{H}}\)\begin{tabular}{l} 
File: E10054 \\
(N) \\
CCN: NOIV
\end{tabular}\(\quad\)\begin{tabular}{l} 
File: LR26817 \\
Class: 321802
\end{tabular}

Square D Offering According to Class, Division, and Group
Table 19.277: Square D Offering According to Class, Division, and Group
\begin{tabular}{|c|c|c|c|c|}
\hline \multicolumn{3}{|c|}{For} & \multicolumn{2}{|r|}{\multirow[t]{2}{*}{Use}} \\
\hline Class & Division & Group(s) & & \\
\hline I & 1 & A & 1. & Intrinsically Safe System \\
\hline \multirow[t]{2}{*}{1} & \multirow[b]{2}{*}{1} & \multirow[t]{2}{*}{B, C, D} & 1. & 9001 BR station \\
\hline & & & 2. & Intrinsically Safe System \\
\hline \multirow[t]{2}{*}{1} & \multirow[t]{2}{*}{2} & \multirow[t]{2}{*}{A} & 1. & 9001 K, SK, KX control stations with restrictions [128] [129] \\
\hline & & & 2. & Intrinsically Safe System \\
\hline \multirow{3}{*}{1} & \multirow{3}{*}{2} & \multirow{3}{*}{B, C, D} & 1. & 9001 BR station \\
\hline & & & 2. & 9001 K, SK, KX control stations with restrictions [128] [129] \\
\hline & & & 3. & Intrinsically Safe System \\
\hline \multirow[b]{2}{*}{II} & \multirow[b]{2}{*}{1} & \multirow[b]{2}{*}{E, F, G} & 1. & 9001 BR station \\
\hline & & & 2. & Intrinsically Safe System \\
\hline \multirow{3}{*}{11} & \multirow{3}{*}{2} & \multirow{3}{*}{E, F} & 1. & 9001 BR station \\
\hline & & & 2. & 9001 K, SK, KX control stations with restrictions [128] [129] \\
\hline & & & 3. & Intrinsically Safe System \\
\hline \multirow{3}{*}{11} & \multirow{3}{*}{2} & \multirow{3}{*}{G} & 1. & 9001 BR station \\
\hline & & & 2. & 9001 K, SK, KX control stations with restrictions [130] [129] \\
\hline & & & 3. & Intrinsically Safe System \\
\hline \multirow{3}{*}{III} & \multirow{3}{*}{1,2} & \multirow{3}{*}{-} & 1. & 9001 BR Station \\
\hline & & & 2. & 9001 K, SK, KX control stations with restrictions [130] [129] \\
\hline & & & 3. & Intrinsically Safe System \\
\hline
\end{tabular}

\section*{Hermetically Sealed Logic Reed Contact Blocks}

Table 19.278: Hermetically Sealed Logic Reed Contact Blocks [131] [132]
Suitable for use on low energy level circuits


\section*{Hermetically Sealed Power Reed Contact Blocks}

Table 19.279: Hermetically Sealed Power Reed Contact Blocks [131] [132] [134]
\begin{tabular}{|c|c|c|}
\hline Description & Symbol & Type [133] \\
\hline \multirow{5}{*}{\begin{tabular}{l}
The maximum number of logic and/or power reed contact blocks per operator is as indicated on individual selection tables for standard contact blocks, except: \\
- On 3 position selector switches with cams C, D, E, F, G, L, or M, mount reed blocks on one side only (either side), maximum 2 in tandem. \\
- On 4 position selector switches, mount reed blocks on one side only (either side), maximum 2 in tandem. \\
- On joysticks or on Type KR8 or SKR8 push-pull operators, mount reed blocks on one side only (either side), maximum 2 in tandem.
\end{tabular}} & 0.1 & KA51 \\
\hline & 1. & KA52 \\
\hline & \(E^{\circ}\) & KA53 \\
\hline & E d & KA54 \\
\hline & \% 1. & KA55 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Volts} & \multicolumn{2}{|c|}{Make} & \multicolumn{2}{|c|}{Break} & \multirow[b]{2}{*}{Continuous} \\
\hline & A & VA & A & VA & \\
\hline \multicolumn{6}{|l|}{AC NEMA C300 [135]} \\
\hline 120 & 10.00 & \multirow[b]{2}{*}{1200} & 1.000 & \multirow[b]{2}{*}{120} & \multirow[b]{2}{*}{3.0} \\
\hline 240 & 5.00 & & . 500 & & \\
\hline \multicolumn{6}{|l|}{DC NEMA Q150 [136]} \\
\hline 115 & . 50 & 58 & 50 & 58 & 3.0 \\
\hline
\end{tabular}

\footnotetext{
[128] Any Class 9001 Type K, SK or KX operator can be used in an area classified as Class I, Division 2 hazardous locations, if: 1. Only logic (KA40 series) or power (KA50 series) reed contact blocks are used.
2. All Type K and SK illuminated operators are UL approved for use in Class I Division 2 areas. (Add Form Y243 to single lamp Push-To-Test pilot lights.)
3. Type KX illuminated operators do not use 4 lamp light modules, or 2 lamp light modules other than the transformer type. (Add Form Y243 to single lamp Push-To-Test pilot lights.)
4. The operators are mounted in any NEMA 4 \& 13 enclosures.
[129] UL Listed: File E10054(N), CCN NOIV.
[130] Any Class 9001 Type K, SK, or KX operator mounted in a Class 9001 Type KY, KYSS, KYAF, SKY enclosure may be used, except potentiometer operators.
[131] Not for use in pendant stations.
[132] When ordering, add prefix 9001 to the catalog number.
[133] All contact blocks listed below accept \#12-18 solid or stranded wire.
[134] The power reed contact blocks can be used with standard industrial relays and starters through NEMA Size 4 . Minimum voltage is 5 V and the minimum current is 1 mA
[135] Inductive Rating-35\% Power Factor.
[136] Inductive and Resistive Ratings
}

\title{
Type K, SK, and KX Contact Block "H" Numbers
}

The design of Class 9001 Type KA contact blocks allows them to be mounted side by side and/or in tandem. This enables you to specify an operator and a specific arrangement of contact blocks (shipped fully assembled) with a single Type number.

Mounting Hole for All Types K, SK, and KX Control Units

Table 19.280: "H" Codes
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{} & \multirow[t]{2}{*}{\[
\begin{aligned}
& \text { Suffix No. } \\
& \text { (Add to Operator } \\
& \text { Type) }
\end{aligned}
\]} & \multicolumn{6}{|c|}{Positions} \\
\hline & & 1 & 2 & 3 & 4 & 5 & 6 \\
\hline \multirow[t]{6}{*}{Example: A Type KR1B push button with 2 Type KA1 contact blocks would be Class 9001 Type KR1BH2.} & \[
\begin{aligned}
& \mathrm{H} 1 \\
& \mathrm{H} 2 \\
& \mathrm{H} 3 \\
& \mathrm{H} 4 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \text { KA1 } \\
& \text { KA1 } \\
& \text { KA1 } \\
& \text { KA1 } \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \text { KA1 } \\
& \text { KA1 } \\
& \text { KA1 } \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \text { KA1 } \\
& \text { KA1 } \\
& \hline
\end{aligned}
\] & KA1 & & \\
\hline & \[
\begin{aligned}
& \text { H5 } \\
& \text { H6 } \\
& \text { H7 } \\
& \text { H8 } \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \text { KA2 } \\
& \text { KA3 } \\
& \text { KA2 } \\
& \text { KA3 } \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \text { KA2 } \\
& \text { KA3 }
\end{aligned}
\] & & & & \\
\hline & \[
\begin{aligned}
& \hline \mathrm{H} 9 \\
& \mathrm{H} 10 \\
& \mathrm{H} 11 \\
& \mathrm{H} 12 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \text { KA4 } \\
& \text { KA4 } \\
& \text { KA1 } \\
& \text { KA2 } \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \text { KA1 } \\
& \text { KA5 } \\
& \text { KA1 } \\
& \text { KA3 } \\
& \hline
\end{aligned}
\] & KA2 & \[
\begin{aligned}
& \text { KA1 } \\
& \text { KA3 } \\
& \hline
\end{aligned}
\] & & \\
\hline & \[
\begin{array}{r}
\text { H13 } \\
\text { H14 } \\
\text { H15 } \\
\text { H16 } \\
\hline
\end{array}
\] & \[
\begin{aligned}
& \text { KA2 } \\
& \text { KA2 } \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \text { KA1 } \\
& \text { KA3 } \\
& \text { KA3 } \\
& \text { KA3 } \\
& \hline
\end{aligned}
\] & KA2 & KA3 & & \\
\hline & \[
\begin{aligned}
& \mathrm{H} 17 \\
& \mathrm{H} 18 \\
& \mathrm{H} 19 \\
& \text { H21 } \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \text { KA1 } \\
& \text { KA3 } \\
& \text { KA1 } \\
& \text { KA2 } \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \text { KA1 } \\
& \text { KA1 } \\
& \text { KA1 } \\
& \text { KA3 } \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \text { KA2 } \\
& \text { KA2 } \\
& \text { KA3 } \\
& \text { KA1 } \\
& \hline
\end{aligned}
\] & KA1 & \[
\begin{aligned}
& \text { KA3 } \\
& \text { KA1 }
\end{aligned}
\] & \\
\hline & \[
\begin{aligned}
& \mathrm{H} 23 \\
& \mathrm{H} 24 \\
& \mathrm{H} 25 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \text { KA1 } \\
& \text { KA1 } \\
& \text { KA5 } \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \text { KA1 } \\
& \text { KA2 } \\
& \text { KA3 } \\
& \hline
\end{aligned}
\] & KA1 & KA1 & KA1 & KA1 \\
\hline
\end{tabular}

NOTE: For "H" Codes not in this table, contact your local Schneider Electric Customer Care Center.


Hole Punch: Use Greenlee Tool \#60242 to punch mounting hole and notch.
Maximum Contact Block Usage(Includes Types K, SK and KX)
- \(\mathbf{2}\) blocks mounted side by side only: Any 2, 3 or 4 position spring return selector switch (non-illuminated, illuminated or keyed).
- 2 blocks mounted in tandem 1 side only: Any 2 operator interlocked push button.
- 2 blocks mounted in tandem (total of four blocks): Any selector push button, keyed push button, 2, 3, or 4 position maintained selector switch (non-illuminated, illuminated or keyed), push-pull operators (non-illuminated or illuminated), joy stick,
dual push button. dual push button.
- 3 blocks mounted in tandem (total of six blocks): Single momentary push buttons (non-illuminated or illuminated).

Table 19.281: Dimensions When Using Contact Blocks


Table 19.282: Basic Operators (Without Color Caps, Mushroom Buttons, Knobs, Selector Switch Cams, Contact Blocks, Light Modules, or Legend Plates)
\begin{tabular}{|c|c|c|}
\hline \multirow[b]{2}{*}{Description} & \multicolumn{2}{|c|}{For UL Types/NEMA} \\
\hline & \[
\begin{gathered}
1,3 R, 4, \\
12,13[137]
\end{gathered}
\] & 4, 4X, 13 [137] \\
\hline Non-Illuminated Push Button (Extended Guard) & KR2 & SKR2 \\
\hline Non-Illuminated Push Button (No Guard) & KR3 & SKR3 \\
\hline Non-Illuminated Push Button (Mushroom Button/ Screw-On) & KR20 & SKR20 \\
\hline Non-Illuminated Dual Push Button (Momentary) & KR6 & - \\
\hline Non-Illuminated Dual Push Button (Momentary Interlocked) & KR67 & - \\
\hline Non-Illuminated Dual Push Button (Maintained Interlocked) & KR7 & - \\
\hline Momentary Pull-Maintained Neutral-
Momentary Push & KR8 [138] [139] & SKR8 [138] \\
\hline Maintained Pull-Maintained Push & KR9 [138] [139] & SKR9 [138] \\
\hline Illuminated Push Button (Full Guard-Plastic Top) & K1L [140] & SK1L [140] \\
\hline Illuminated Push Button and Push-To-Test (No Guard) & K2L [140] [141] & SK2L [140] [141] \\
\hline Illuminated Push Button (Full Guard-Metal Top) & K3L [140] & - \\
\hline Standard Pilot Light & KP & SKP \\
\hline 3 Position Maintained Selector Switch & KS4 [138] & SKS4 [138] \\
\hline 3 Position Spring Return Both Sides To CenterSelector Switch & KS5 [138] & SKS5 [138] \\
\hline 3 Position Spring Return Left To Center-Selector Switch & KS6 [138] & SKS6 [138] \\
\hline 3 Position Spring Return Right To CenterSelector Switch & KS7 [138] & SKS7 [138] \\
\hline
\end{tabular}


Table 19.283: Min. Centerline Spacing, Type K \& SK Control Units
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Legend Plate} & \multirow[t]{2}{*}{Operator} & \multicolumn{6}{|c|}{Centerline Spacing (in.)} \\
\hline & & A & B & & D & E & F \\
\hline \multicolumn{8}{|l|}{Legend Plate Orientation Position \#1} \\
\hline \multirow[b]{2}{*}{\[
\begin{aligned}
& \text { KN2 } \\
& \text { KN5 }
\end{aligned}
\]} & Standard Push Button 1.375 in. Dia. Mushroom & \[
\begin{array}{r}
1.75 \\
1.75 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
1.31 \\
1.31 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
1.44 \\
1.44 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
2.25 \\
2.25 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
1.69 \\
1.69 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
0.88 \\
0.88 \\
\hline
\end{array}
\] \\
\hline & 2.25 in . Dia. Mushroom Selector Switch Knobs & \[
\begin{aligned}
& 2.25 \\
& 1.75 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 1.31 \\
& 1.31 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 1.44 \\
& 1.44 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 2.25 \\
& 2.25 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \hline 2.25 \\
& 1.69 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 1.12 \\
& 0.88
\end{aligned}
\] \\
\hline \multirow[b]{2}{*}{KN3} & Standard Push Button 1.375 in. Dia. Mushroom & \[
\begin{aligned}
& 2.00 \\
& 2.00 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 1.31 \\
& 1.31 \\
& \hline
\end{aligned}
\] & \[
\begin{array}{r}
1.44 \\
1.44 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
2.25 \\
2.25 \\
\hline
\end{array}
\] & \[
\begin{aligned}
& 1.75 \\
& 1.75 \\
& \hline
\end{aligned}
\] & \begin{tabular}{l}
0.88 \\
0.88 \\
\hline
\end{tabular} \\
\hline & 2.25 in. Dia. Mushroom Selector Switch Knobs & \[
\begin{aligned}
& 2.25 \\
& 2.00 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 1.31 \\
& 1.31 \\
& \hline
\end{aligned}
\] & \[
\begin{array}{r}
1.44 \\
1.44 \\
\hline
\end{array}
\] & \[
\begin{aligned}
& 2.25 \\
& 2.25 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 2.25 \\
& 1.75 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 1.12 \\
& 0.88
\end{aligned}
\] \\
\hline \multirow[b]{2}{*}{KN4} & Standard Push Button 1.375 in. Dia. Mushroom & \[
\begin{aligned}
& 1.94 \\
& 1.94 \\
& \hline
\end{aligned}
\] & \[
\begin{array}{r}
1.31 \\
1.31 \\
\hline
\end{array}
\] & \[
\begin{aligned}
& 1.44 \\
& 1.44 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 2.25 \\
& 2.25 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 1.62 \\
& 1.62 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 0.88 \\
& 0.88 \\
& \hline
\end{aligned}
\] \\
\hline & 2.25 in. Dia. Mushroom Selector Switch Knobs & \[
\begin{aligned}
& 2.25 \\
& 1.74 \\
& \hline
\end{aligned}
\] & \[
\begin{array}{r}
1.31 \\
1.31 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
1.44 \\
1.44 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
2.25 \\
2.25 \\
\hline
\end{array}
\] & \[
\begin{aligned}
& 2.25 \\
& 1.62 \\
& \hline
\end{aligned}
\] & \[
\begin{array}{r}
1.12 \\
0.88 \\
\hline
\end{array}
\] \\
\hline \multirow[b]{2}{*}{KN6} & Standard Push Button 1.375 in. Dia. Mushroom & \[
\begin{array}{r}
2.38 \\
2.38 \\
\hline
\end{array}
\] & \[
\begin{aligned}
& 1.62 \\
& 1.62 \\
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\] & \[
\begin{array}{r}
1.44 \\
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\] & \[
\begin{array}{r}
2.25 \\
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\end{array}
\] & \[
\begin{array}{r}
2.25 \\
2.25 \\
\hline
\end{array}
\] & \begin{tabular}{l}
1.12 \\
1.12 \\
\hline 1
\end{tabular} \\
\hline & 2.25 in. Dia. Mushroom Selector Switch Knobs & \[
\begin{aligned}
& 2.38 \\
& 2.38 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 1.62 \\
& 1.62
\end{aligned}
\] & \[
\begin{aligned}
& 1.44 \\
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\] & \[
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& 2.25 \\
& 2.25
\end{aligned}
\] & \[
\begin{aligned}
& 1.12 \\
& 1.12
\end{aligned}
\] \\
\hline \multicolumn{8}{|l|}{Legend Plate Orientation Position \#2} \\
\hline \multirow[b]{2}{*}{\[
\begin{aligned}
& \text { KN2 } \\
& \text { KN5 }
\end{aligned}
\]} & Standard Push Button 1.375 in. Dia. Mushroom & \[
\begin{aligned}
& 1.62 \\
& 1.62 \\
& \hline
\end{aligned}
\] & \[
\begin{array}{r}
1.31 \\
1.31 \\
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\end{array}
\] & \[
\begin{array}{r}
1.44 \\
1.44 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
2.25 \\
2.25 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
1.75 \\
1.75 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
0.88 \\
0.88 \\
\hline
\end{array}
\] \\
\hline & 2.25 in. Dia. Mushroom Selector Switch Knobs & \[
\begin{aligned}
& 2.25 \\
& 1.62 \\
& \hline
\end{aligned}
\] & \[
\begin{array}{r}
1.31 \\
1.31 \\
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\end{array}
\] & \[
\begin{array}{r}
1.44 \\
1.44 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
2.25 \\
2.25 \\
\hline
\end{array}
\] & 2.25
1.75 & \begin{tabular}{l}
1.12 \\
0.88 \\
\hline
\end{tabular} \\
\hline \multirow[b]{2}{*}{KN3} & Standard Push Button 1.375 in. Dia. Mushroom & \[
\begin{array}{r}
1.75 \\
1.75 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
1.31 \\
1.31 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
1.44 \\
1.44 \\
\hline
\end{array}
\] & \[
\begin{aligned}
& 2.25 \\
& 2.25 \\
& \hline
\end{aligned}
\] & \[
\begin{array}{r}
2.00 \\
2.00 \\
\hline
\end{array}
\] & \[
\begin{aligned}
& 0.88 \\
& 0.88 \\
& \hline
\end{aligned}
\] \\
\hline & 2.25 in. Dia. Mushroom Selector Switch Knobs & \[
\begin{aligned}
& 2.25 \\
& 1.75 \\
& \hline
\end{aligned}
\] & \[
\begin{array}{r}
1.31 \\
1.31 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
1.44 \\
1.44 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
2.25 \\
2.25 \\
\hline
\end{array}
\] & 2.25
2.00 & \[
\begin{aligned}
& 1.12 \\
& 0.88 \\
& \hline
\end{aligned}
\] \\
\hline \multirow[b]{2}{*}{KN4} & Standard Push Button 1.375 in. Dia. Mushroom & \[
\begin{aligned}
& 1.62 \\
& 1.62 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 1.31 \\
& 1.31 \\
& \hline
\end{aligned}
\] & \[
\begin{array}{r}
\hline 1.44 \\
1.44 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
2.25 \\
2.25 \\
\hline
\end{array}
\] & \begin{tabular}{l}
1.94 \\
1.94 \\
\hline
\end{tabular} & 1.00
1.00 \\
\hline & 2.25 in. Dia. Mushroom Selector Switch Knobs & \[
\begin{aligned}
& 2.25 \\
& 1.62 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 1.31 \\
& 1.31 \\
& \hline
\end{aligned}
\] & \[
\begin{array}{r}
1.44 \\
1.44 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
2.25 \\
2.25 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
2.25 \\
1.94 \\
\hline
\end{array}
\] & \[
\begin{aligned}
& 1.12 \\
& 1.00 \\
& \hline
\end{aligned}
\] \\
\hline \multirow[b]{2}{*}{KN6} & Standard Push Button 1.375 in. Dia. Mushroom & \[
\begin{aligned}
& 2.25 \\
& 2.25 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 1.31 \\
& 1.31 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 1.62 \\
& 1.62 \\
& \hline
\end{aligned}
\] & \[
\begin{array}{r}
2.38 \\
2.38 \\
\hline
\end{array}
\] & 2.38 & \begin{tabular}{l}
0.88 \\
0.88 \\
\hline
\end{tabular} \\
\hline & 2.25 in. Dia. Mushroom Selector Switch Knobs & \[
\begin{aligned}
& 2.25 \\
& 2.25 \\
& \hline
\end{aligned}
\] & \[
\begin{array}{r}
1.31 \\
1.31 \\
\hline
\end{array}
\] & \[
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& 1.62 \\
& 1.62 \\
& \hline
\end{aligned}
\] & \[
\begin{array}{r}
2.38 \\
2.38 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
2.38 \\
2.38 \\
\hline
\end{array}
\] & \[
\begin{array}{r}
1.12 \\
0.88 \\
\hline
\end{array}
\] \\
\hline
\end{tabular}
[137] When ordering, add prefix 9001 to the catalog number.
[138] Operator can be converted to an illuminated operator by removing the liner (6512240601) and adding a light module
[139] These operators can be supplied with 1-3/8 in or 2-1/4 in dia. mushroom buttons. For 1-3/8 in.: add ( ) 20 to type number. For 2-1/4 in.: Add ( ) 21 to type number. The ( ) refers to the color chosen-see Additional Accessories for Type K and SK Operators, page 19-99. Voids UL and NEMA 6 Rating.
[140] Operator can be converted to a non-illuminated operator by adding liner (6512240601).
[141] Operator includes jumper wires for push-to-test conversion.

\section*{Legend Plates for Types K and SK Operators}

Table 19.284: Legend Plates
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{3}{*}{Standard Markings} & \multicolumn{9}{|c|}{Plastic Legend Plates [142] [143] for use with Types K and SK Operators} & \multicolumn{3}{|l|}{Aluminum Legend Plates [144] for use with Type K Operators} \\
\hline & \multicolumn{3}{|c|}{1-3/4" Square} & \multicolumn{3}{|c|}{2-1/4" Square} & \multicolumn{3}{|c|}{2-1/2" Square} & Black Legend & Black Legend & Blue Legend \\
\hline & Silver Legend with Black Letters & \begin{tabular}{l}
White \\
Legend with Black Letters
\end{tabular} & Black Legend with White Letters & Silver Legend with Black Letters & White Legend with Black Letters & Black Legend with White Letters & Silver Legend with Black Letters & White Legend with Black Letters & Black Legend with White Letters &  &  & \[
\square
\] \\
\hline \multicolumn{10}{|l|}{For Push Button or Pilot Light} & KN200 & KN300 & KN800 \\
\hline Blank & KN200SP & KN200WP & KN200BP & KN100SP & KN100WP & KN100BP & KN700SP & KN700WP & KN700BP & KN200 & KN300 & KN800 \\
\hline Blank (red) & KN200RP. & KN200RP. & KN200RP. & KN100RP. & KN100RP. & KN100RP. & KN700RP■ & KN700RP. & KN700RP. & KN200R & KN300R 4 & KN800R \\
\hline Start & KN201SP & KN201WP & KN201BP & KN101SP & KN101WP & KN101BP & KN701SP & KN701WP & KN701BP & KN201 & KN301 & KN801 \\
\hline Stop & KN202RP. & KN202RP. & KN202RP. & KN102RP. & KN102RP. & KN102RP. & KN702RP■ & KN702RP. & KN702RP. & KN2024 & KN3024 & KN8024 \\
\hline On & KN203SP & KN203WP & KN203BP & KN103SP & KN103WP & KN103BP & KN703SP & KN703WP & KN703BP & KN203 & KN303 & KN803 \\
\hline Off & KN204RP. & KN204RP. & KN204RP. & KN104RP. & KN104RP. & KN104RP. & KN704RP. & KN704RP. & KN704RP. & KN204 & KN304 & KN804 \\
\hline Emerg. Stop & KN205RP■ & KN205RP. & KN205RP. & KN105RP. & KN105RP. & KN105RP. & KN705RP■ & KN705RP. & KN705RP■ & KN2054 & KN3054 & KN8054 \\
\hline Forward & KN206SP & KN206WP & KN206BP & KN106SP & KN106WP & KN106BP & KN706SP & KN706WP & KN706BP & KN206 & KN306 & KN806 \\
\hline Reverse & KN207SP & KN207WP & KN207BP & KN107SP & KN107WP & KN107BP & KN707SP & KN707WP & KN707BP & KN207 & KN307 & KN807 \\
\hline Close & KN208SP & KN208WP & KN208BP & KN108SP & KN108WP & KN108BP & KN708SP & KN708WP & KN708BP & KN208 & KN308 & KN808 \\
\hline Open & KN209SP & KN209WP & KN209BP & KN109SP & KN109WP & KN109BP & KN709SP & KN709WP & KN709BP & KN209 & KN309 & KN809 \\
\hline Down & KN210SP & KN210WP & KN210BP & KN110SP & KN110WP & KN110BP & KN710SP & KN710WP & KN710BP & KN210 & KN310 & KN810 \\
\hline Up & KN211SP & KN211WP & KN211BP & KN111SP & KN111WP & KN111BP & KN711SP & KN711WP & KN711BP & KN211 & KN311 & KN811 \\
\hline Fast & KN212SP & KN212WP & KN212BP & KN112SP & KN112WP & KN112BP & KN712SP & KN712WP & KN712BP & KN212 & KN312 & KN812 \\
\hline Slow & KN213SP & KN213WP & KN213BP & KN113SP & KN113WP & KN113BP & KN713SP & KN713WP & KN713BP & KN213 & KN313 & KN813 \\
\hline High & KN214SP & KN214WP & KN214BP & KN114SP & KN114WP & KN114BP & KN714SP & KN714WP & KN714BP & KN214 & KN314 & KN814 \\
\hline Low & KN215SP & KN215WP & KN215BP & KN115SP & KN115WP & KN115BP & KN715SP & KN715WP & KN715BP & KN215 & KN315 & KN815 \\
\hline Inch & KN216SP & KN216WP & KN216BP & KN116SP & KN116WP & KN116BP & KN716SP & KN716WP & KN716BP & KN216 & KN316 & KN816 \\
\hline In & KN217SP & KN217WP & KN217BP & KN117SP & KN117WP & KN117BP & KN717SP & KN717WP & KN717BP & KN217 & KN317 & KN817 \\
\hline Jog & KN218SP & KN218WP & KN218BP & KN118SP & KN118WP & KN118BP & KN718SP & KN718WP & KN718BP & KN218 & KN318 & KN818 \\
\hline Jog For. & KN219SP & KN219WP & KN219BP & KN119SP & KN119WP & KN119BP & KN719SP & KN719WP & KN719BP & KN219 & KN319 & KN819 \\
\hline Jog Rev. & KN220SP & KN220WP & KN220BP & KN120SP & KN120WP & KN120BP & KN720SP & KN720WP & KN720BP & KN220 & KN320 & KN820 \\
\hline Lower & KN221SP & KN221WP & KN221BP & KN121SP & KN121WP & KN121BP & KN721SP & KN721WP & KN721BP & KN221 & KN321 & KN821 \\
\hline Out & KN222SP & KN222WP & KN222BP & KN122SP & KN122WP & KN122BP & KN722SP & KN722WP & KN722BP & KN222 & KN322 & KN822 \\
\hline Reset & KN223SP & KN223WP & KN223BP & KN123SP & KN123WP & KN123BP & KN723SP & KN723WP & KN723BP & KN223 & KN323 & KN823 \\
\hline Run & KN224SP & KN224WP & KN224BP & KN124SP & KN124WP & KN124BP & KN724SP & KN724WP & KN724BP & KN224 & KN324 & KN824 \\
\hline Start Jog & KN225SP & KN225WP & KN225BP & KN125SP & KN125WP & KN125BP & KN725SP & KN725WP & KN725BP & KN225 & KN325 & KN825 \\
\hline Test & KN226SP & KN226WP & KN226BP & KN126SP & KN126WP & KN126BP & KN726SP & KN726WP & KN726BP & KN226 & KN326 & KN826 \\
\hline Raise & KN227SP & KN227WP & KN227BP & KN127SP & KN127WP & KN127BP & KN727SP & KN727WP & KN727BP & KN227 & KN327 & KN827 \\
\hline Decrease & KN228SP & KN228WP & KN228BP & KN128SP & KN128WP & KN128BP & KN728SP & KN728WP & KN728BP & KN228 & KN328 & KN828 \\
\hline Increase & KN229SP & KN229WP & KN229BP & KN129SP & KN129WP & KN129BP & KN729SP & KN729WP & KN729BP & KN229 & KN329 & KN829 \\
\hline Left & KN230SP & KN230WP & KN230BP & KN130SP & KN130WP & KN130BP & KN730SP & KN730WP & KN730BP & KN230 & KN330 & KN830 \\
\hline Right & KN231SP & KN231WP & KN231BP & KN131SP & KN131WP & KN131BP & KN731SP & KN731WP & KN731BP & KN231 & KN331 & KN831 \\
\hline Cycle Start & KN232SP & KN232WP & KN232BP & KN132SP & KN132WP & KN132BP & KN732SP & KN732WP & KN732BP & KN232 & KN332 & KN832 \\
\hline Feed Start & KN233SP & KN233WP & N233BP & KN133SP & KN133WP & KN133BP & KN733SP & KN733WP & KN733BP & KN233 & KN333 & KN833 \\
\hline Cycle Stop & KN234SP & KN234WP & KN234BP & KN134SP & KN134WP & KN134BP & KN734SP & KN734WP & KN734BP & KN234 & KN334 & KN834 \\
\hline Motor Run & KN236SP & KN236WP & KN236BP & KN136SP & KN136WP & KN136BP & KN736SP & KN736WP & KN736BP & KN236 & KN336 & KN836 \\
\hline Motor Stop & KN237SP & KN237WP & KN237BP & KN137SP & KN137WP & KN137BP & KN737SP & KN737WP & KN737BP & KN237 & KN337 & KN837 \\
\hline Power On & KN238SP & KN238WP & KN238BP & KN138SP & KN138WP & KN138BP & KN738SP & KN738WP & KN738BP & KN238 & KN338 & KN838 \\
\hline Pull To Start Push To Stop & N/A & N/A & N/A & KN179SP & KN179WP & KN179BP & KN779SP & KN779WP & KN779BP & N/A & KN379 & N/A \\
\hline For Selector S & h or Selecto & ush But & & & & & & & & & & \\
\hline For.-Rev. & KN239SP & KN239WP & KN239BP & KN139SP & KN139WP & KN139BP & KN739SP & KN739WP & KN739BP & KN239 & KN339 & KN839 \\
\hline Hand-Auto. & KN240SP & KN240WP & KN240BP & KN140SP & KN140WP & KN140BP & KN740SP & KN740WP & KN740BP & KN240 & KN340 & KN840 \\
\hline High-Low & KN241SP & KN241WP & KN241BP & KN141SP & KN141WP & KN141BP & KN741SP & KN741WP & KN741BP & KN241 & KN341 & KN841 \\
\hline Jog-Run & KN242SP & KN242WP & KN242BP & KN142SP & KN142WP & KN142BP & KN742SP & KN742WP & KN742BP & KN242 & KN342 & KN842 \\
\hline Man.-Auto. & KN243SP & KN243WP & KN243BP & KN143SP & KN143WP & KN143BP & KN743SP & KN743WP & KN743BP & KN243 & KN343 & KN843 \\
\hline Off-On & KN244SP & KN244WP & KN244BP & KN144SP & KN144WP & KN144BP & KN744SP & KN744WP & KN744BP & KN244 & KN344 & KN844 \\
\hline On-Off & KN245SP & KN245WP & KN245BP & KN145SP & KN145WP & KN145BP & KN745SP & KN745WP & KN745BP & KN245 & KN345 & KN845 \\
\hline Open-Close & KN246SP & KN246WP & KN246BP & KN146SP & KN146WP & KN146BP & KN746SP & KN746WP & KN746BP & KN246 & KN346 & KN846 \\
\hline Raise-Lower & KN247SP & KN247WP & KN247BP & KN147SP & KN147WP & KN147BP & KN747SP & KN747WP & KN747BP & KN247 & KN347 & KN847 \\
\hline Run-Jog & KN248SP & KN248WP & KN248BP & KN148SP & KN148WP & KN148BP & KN748SP & KN748WP & KN748BP & KN248 & KN348 & KN848 \\
\hline Slow-Fast & KN250SP & KN250WP & KN250BP & KN150SP & KN150WP & KN150BP & KN750SP & KN750WP & KN750BP & KN250 & KN350 & KN850 \\
\hline Start-Stop & KN251SP & KN251WP & KN251BP & KN151SP & KN151WP & KN151BP & KN751SP & KN751WP & KN751BP & KN251 & KN351 & KN851 \\
\hline Up-Down & KN253SP & KN253WP & KN253BP & KN153SP & KN153WP & KN153BP & KN753SP & KN753WP & KN753BP & KN253 & KN353 & KN853 \\
\hline Low-High & KN254SP & KN254WP & KN254BP & KN154SP & KN154WP & KN154BP & KN754SP & KN754WP & KN754BP & KN254 & KN354 & KN854 \\
\hline Stop-Start & KN255SP & KN255WP & KN255BP & KN155SP & KN155WP & KN155BP & KN755SP & KN755WP & KN755BP & KN255 & KN355 & KN855 \\
\hline Left-Right & KN256SP & KN256WP & KN256BP & KN156SP & KN156WP & KN156BP & KN756SP & KN756WP & KN756BP & KN256 & KN356 & KN856 \\
\hline On-Auto & KN276SP & KN276WP & KN276BP & KN176SP & KN176WP & KN176BP & KN776SP & KN776WP & KN776BP & KN276 & KN376 & KN876 \\
\hline Auto-Off-Hand & KN258SP & KN258WP & KN258BP & KN158SP & KN158WP & KN158BP & KN758SP & KN758WP & KN758BP & KN258 & KN358 & KN858 \\
\hline For.-Off-Rev. & KN259SP & KN259WP & KN259BP & KN159SP & KN159WP & KN159BP & KN759SP & KN759WP & KN759BP & KN259 & KN359 & KN859 \\
\hline Hand-Off-Auto. & KN260SP & KN260WP & KN260BP & KN160SP & KN160WP & KN160BP & KN760SP & KN760WP & KN760BP & KN260 & KN360 & KN860 \\
\hline Man-Off-Auto & KN262SP & KN262WP & KN262BP & KN162SP & KN162WP & KN162BP & KN762SP & KN762WP & KN762BP & KN262 & KN362 & KN862 \\
\hline Open-Off-Close & KN263SP & KN263WP & KN263BP & KN163SP & KN163WP & KN163BP & KN763SP & KN763WP & KN763BP & KN263 & KN363 & KN863 \\
\hline Up-Off-Down & KN264SP & KN264WP & KN264BP & KN164SP & KN164WP & KN164BP & KN764SP & KN764WP & KN764BP & KN264 & KN364 & KN864 \\
\hline Low-Off-High & KN265SP & KN265WP & KN265BP & KN165SP & KN165WP & KN165BP & KN765SP & KN765WP & KN765BP & KN265 & KN365 & KN865 \\
\hline Jog-Stop-Run & KN267SP & KN267WP & KN267BP & KN167SP & KN167WP & KN167BP & KN767SP & KN767WP & KN767BP & KN267 & KN367 & KN867 \\
\hline High-Low-Off & KN270SP & KN270WP & KN270BP & KN170SP & KN170WP & KN170BP & KN770SP & KN770WP & KN770BP & KN270 & KN370 & KN870 \\
\hline High-Off-Low & KN277SP & KN277WP & KN277BP & KN177SP & KN177WP & KN177BP & KN777SP & KN777WP & KN777BP & KN277 & KN377 & KN877 \\
\hline Auto-Man-Off & KN278SP & KN278WP & KN278BP & KN178SP & KN178WP & KN178BP & KN778SP & KN778WP & KN778BP & KN278 & KN378 & KN878 \\
\hline
\end{tabular}
[142] ■ = Legend plate has red background with black letters.
[143] When ordering, add prefix 9001 to the catalog number.
[144] \(\mathbf{\Delta}=\) Legend plate has red background with silver letters.

Type K and SK Accessories
30 mm Push Buttons
Class 9001 / Refer to Catalog 9001CT1103
schneider-electric.us
Table 19.285: Legend Plates-Special Marking
\begin{tabular}{|c|c|c|c|}
\hline Legend Plate & \multicolumn{2}{|l|}{Description} & Type [145] \\
\hline \multirow{5}{*}{KN100()P (Plastic) [146] 2.25 in Square} & \multicolumn{2}{|l|}{Standard Markings} & See Table 19.284 Legend Plates, page 19-94 \\
\hline & \multirow{4}{*}{Special Marking [147]} & Silver Field, Black Letters & KN199SP \\
\hline & & White Field, Black Letters & KN199WP \\
\hline & & Red Field, Black Letters & KN199RP \\
\hline & & Black Field, White Letters & KN199BP \\
\hline \multirow[b]{3}{*}{KN200 Aluminum} & \multicolumn{2}{|l|}{Standard Markings} & See Table 19.284 Legend Plates, page 19-94 \\
\hline & Special Marking & Black Field & KN299 \\
\hline & [147] & Red Field & KN299R \\
\hline \multirow{5}{*}{\begin{tabular}{l}
KN200( )P \\
(Plastic) [146] 1.7 in. Square
\end{tabular}} & \multicolumn{2}{|l|}{Standard Markings} & See Table 19.284 Legend Plates, page 19-94 \\
\hline & \multirow{4}{*}{Special Marking [147]} & Silver Field, Black Letters & KN299SP \\
\hline & & White Field, Black Letters & KN299WP \\
\hline & & Red Field, Black Letters & KN299RP \\
\hline & & Black Field, White Letters & KN299BP \\
\hline \multirow{3}{*}{KN300 Aluminum} & \multicolumn{2}{|l|}{Standard Markings} & See Table 19.284 Legend Plates, page 19-94 \\
\hline & \multirow[t]{2}{*}{Special Marking [147]} & Black Field & KN399 \\
\hline & & Red Field & KN399R \\
\hline \multirow[t]{2}{*}{\begin{tabular}{l}
KN400 \\
Aluminum
\end{tabular}} & \multicolumn{2}{|l|}{Blank} & KN400 \\
\hline & \multicolumn{2}{|l|}{Any Marking [147]} & KN499 \\
\hline \multirow{3}{*}{KN500 Aluminum} & \multicolumn{2}{|l|}{Standard Markings} & Select from Table 19.290 Special Legend Plates, page 1996 \\
\hline & Special Marking & Black Field & KN599 \\
\hline & [147] & Green Red Field & KN519 \\
\hline \multirow{4}{*}{KN600 Aluminum} & \multirow[t]{2}{*}{Blank} & Black Field & KN600 \\
\hline & & Red Field & KN600R \\
\hline & \multirow[t]{2}{*}{Any Marking
[147]} & Black Field & KN699 \\
\hline & & Red Field & KN699R \\
\hline \multirow{5}{*}{KN700()P (Plastic) [146] 2.5 in. Square} & \multicolumn{2}{|l|}{Standard Markings} & Select from Table 19.284 Legend Plates, page 19-94 \\
\hline & \multirow{4}{*}{Special Marking [147]} & Silver Field, Black Letters & KN799SP \\
\hline & & White Field, Black Letters & KN799WP \\
\hline & & Red Field, Black Letters & KN799RP \\
\hline & & Black Field, White Letters & KN799BP \\
\hline \multirow{3}{*}{\begin{tabular}{l}
KN800 \\
Aluminum
\end{tabular}} & \multicolumn{2}{|l|}{Standard Markings} & Select from Table 19.284 Legend Plates, page 19-94 \\
\hline & \multirow[t]{2}{*}{Special Marking [147]} & Blue Field & KN899 \\
\hline & & Red Field & KN899R \\
\hline \multirow[t]{2}{*}{KN900 Aluminum} & \multicolumn{2}{|l|}{Blank} & KN900 \\
\hline & \multicolumn{2}{|l|}{Any Marking [147]} & KN999 \\
\hline
\end{tabular}

Table 19.286: Maximum Number of Lines and Characters for Type KN Legend Plates
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline Type & KN100 & KN200 & KN300 & KN400 & KN500 & KN600 & KN700 & KN800 & KN900 \\
\hline Max. No. of Characters per Line & 16 & 14 & 18 & 18 & 8 per field & 22 & 17 & 18 & 18 per pos. \\
\hline Max. No. of Lines & 2 & 1 & 3 & 2 & 2 per field & 4 & 2 & 2 & 1 per pos. \\
\hline
\end{tabular}

NOTE: The maximum number of characters and lines is a practical maximum, based on a minimum size of characters to facilitate easy reading.
Table 19.287: Circular Legends for Emergency Stop Mushroom Heads (yellow background)
\begin{tabular}{c|c|c}
\multicolumn{2}{c}{ Diameter } & Text
\end{tabular} Catalog Number [145]

Table 19.288: Plastic Legend Plates-Other Colors
\begin{tabular}{|c|c|c|c|c|c|}
\hline & Plate Color & Letter Color & 1.7 in. Square [145] & 2.25 in. Square [145] & 2.5 in. Square [145] \\
\hline \multirow{4}{*}{Blank Legend Plates} & Yellow & Black & KN200YP & KN100YP & KN700YP \\
\hline & Green & \multirow{3}{*}{White} & KN200GP & KN100GP & KN700GP \\
\hline & Blue & & KN200LP & KN100LP & KN700LP \\
\hline & Red & & KN200CP & KN100CP & KN700CP \\
\hline \multirow[b]{4}{*}{\begin{tabular}{l}
Special \\
Engraved \\
Legend Plates
\end{tabular}} & Yellow & Black & KN299YP & KN199YP & KN799YP \\
\hline & Green & \multirow{3}{*}{White} & KN299GP & KN199GP & KN799GP \\
\hline & Blue & & KN299LP & KN199LP & KN799LP \\
\hline & Red & & KN299CP & KN199CP & KN799CP \\
\hline
\end{tabular}

Table 19.289: Min. Centerline Spacing, Type K \& SK Control Units
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|r|}{\multirow[t]{2}{*}{Legend Plate}} & \multirow[t]{2}{*}{Operator} & \multicolumn{6}{|c|}{Centerline Spacing (in.)} \\
\hline & & & A & B & C & D & E & F \\
\hline \multicolumn{9}{|l|}{Legend Plate Orientation Position \#1} \\
\hline \multirow{16}{*}{Legend Plate Position \#1} & \multirow{4}{*}{\[
\begin{aligned}
& \text { KN2 } \\
& \text { KN5 }
\end{aligned}
\]} & Standard Push Button & 1.75 & 1.31 & 1.44 & 2.25 & 1.69 & 0.88 \\
\hline & & 1.375 in. Dia. Mushroom & 1.75 & 1.31 & 1.44 & 2.25 & 1.69 & 0.88 \\
\hline & & 2.25 in. Dia. Mushroom & 2.25 & 1.31 & 1.44 & 2.25 & 2.25 & 1.12 \\
\hline & & Selector Switch Knobs & 1.75 & 1.31 & 1.44 & 2.25 & 1.69 & 0.88 \\
\hline & \multirow{4}{*}{KN3} & Standard Push Button & 2.00 & 1.31 & 1.44 & 2.25 & 1.75 & 0.88 \\
\hline & & 1.375 in. Dia. Mushroom & 2.00 & 1.31 & 1.44 & 2.25 & 1.75 & 0.88 \\
\hline & & 2.25 in. Dia. Mushroom & 2.25 & 1.31 & 1.44 & 2.25 & 2.25 & 1.12 \\
\hline & & Selector Switch Knobs & 2.00 & 1.31 & 1.44 & 2.25 & 1.75 & 0.88 \\
\hline & \multirow{4}{*}{KN4} & Standard Push Button & 1.94 & 1.31 & 1.44 & 2.25 & 1.62 & 0.88 \\
\hline & & 1.375 in. Dia. Mushroom & 1.94 & 1.31 & 1.44 & 2.25 & 1.62 & 0.88 \\
\hline & & 2.25 in. Dia. Mushroom & 2.25 & 1.31 & 1.44 & 2.25 & 2.25 & 1.12 \\
\hline & & Selector Switch Knobs & 1.74 & 1.31 & 1.44 & 2.25 & 1.62 & 0.88 \\
\hline & \multirow{4}{*}{KN6} & Standard Push Button & 2.38 & 1.62 & 1.44 & 2.25 & 2.25 & 1.12 \\
\hline & & 1.375 in. Dia. Mushroom & 2.38 & 1.62 & 1.44 & 2.25 & 2.25 & 1.12 \\
\hline & & 2.25 in. Dia. Mushroom & 2.38 & 1.62 & 1.44 & 2.25 & 2.25 & 1.12 \\
\hline & & Selector Switch Knobs & 2.38 & 1.62 & 1.44 & 2.25 & 2.25 & 1.12 \\
\hline \multicolumn{9}{|l|}{Legend Plate Orientation Position \#2} \\
\hline \multirow[t]{16}{*}{Legend Plate Position \#2} & \multirow{4}{*}{\[
\begin{aligned}
& \text { KN2 } \\
& \text { KN5 }
\end{aligned}
\]} & Standard Push Button & 1.62 & 1.31 & 1.44 & 2.25 & 1.75 & 0.88 \\
\hline & & 1.375 in. Dia. Mushroom & 1.62 & 1.31 & 1.44 & 2.25 & 1.75 & 0.88 \\
\hline & & 2.25 in. Dia. Mushroom & 2.25 & 1.31 & 1.44 & 2.25 & 2.25 & 1.12 \\
\hline & & Selector Switch Knobs & 1.62 & 1.31 & 1.44 & 2.25 & 1.75 & 0.88 \\
\hline & \multirow{4}{*}{KN3} & Standard Push Button & 1.75 & 1.31 & 1.44 & 2.25 & 2.00 & 0.88 \\
\hline & & 1.375 in. Dia. Mushroom & 1.75 & 1.31 & 1.44 & 2.25 & 2.00 & 0.88 \\
\hline & & 2.25 in. Dia. Mushroom & 2.25 & 1.31 & 1.44 & 2.25 & 2.25 & 1.12 \\
\hline & & Selector Switch Knobs & 1.75 & 1.31 & 1.44 & 2.25 & 2.00 & 0.88 \\
\hline & \multirow{4}{*}{KN4} & Standard Push Button & 1.62 & 1.31 & 1.44 & 2.25 & 1.94 & 1.00 \\
\hline & & 1.375 in. Dia. Mushroom & 1.62 & 1.31 & 1.44 & 2.25 & 1.94 & 1.00 \\
\hline & & 2.25 in. Dia. Mushroom & 2.25 & 1.31 & 1.44 & 2.25 & 2.25 & 1.12 \\
\hline & & Selector Switch Knobs & 1.62 & 1.31 & 1.44 & 2.25 & 1.94 & 1.00 \\
\hline & \multirow{4}{*}{KN6} & Standard Push Button & 2.25 & 1.31 & 1.62 & 2.38 & 2.38 & 0.88 \\
\hline & & 1.375 in. Dia. Mushroom & 2.25 & 1.31 & 1.62 & 2.38 & 2.38 & 0.88 \\
\hline & & 2.25 in. Dia. Mushroom & 2.25 & 1.31 & 1.62 & 2.38 & 2.38 & 1.12 \\
\hline & & Selector Switch Knobs & 2.25 & 1.31 & 1.62 & 2.38 & 2.38 & 0.88 \\
\hline
\end{tabular}

Table 19.290: Special Legend Plates

\begin{tabular}{|c|c|c|}
\hline & \multicolumn{2}{|l|}{Type KN500
(For Use with Dual Function Operators: KR6, KR7 and KR67)} \\
\hline & \multicolumn{2}{|c|}{Standard Markings} \\
\hline Type & Green & Red \\
\hline KN500 & Blank & Blank \\
\hline KN501 & Start & Stop \\
\hline KN502 & On & Off \\
\hline & & \\
\hline Type & Black & Black \\
\hline KN520 & Blank & Blank \\
\hline KN521 & Start & Stop \\
\hline KN522 & On & Off \\
\hline KN523 & Forward & Reverse \\
\hline KN524 & Up & Down \\
\hline KN525 & High & Low \\
\hline KN526 & Open & Close \\
\hline
\end{tabular}

Padlock Attachments for Type K and SK Operators


Table 19.291: Padlock Attachments
\begin{tabular}{l|l|c}
\begin{tabular}{l} 
Type K \\
non-illuminated push button — Standard or mushroom \\
(KR4, KR5 mushroom buttons only).
\end{tabular} & \begin{tabular}{l} 
Holds button in depressed position and \\
can be padlocked.
\end{tabular} & Type [148] \\
\hline \begin{tabular}{l} 
Types K and SK \\
non-illuminated push buttons with or without protective \\
boots.
\end{tabular} & \begin{tabular}{l} 
Holds button in depressed position when \\
padlocked.
\end{tabular} & K5 \\
\hline \begin{tabular}{l} 
Types K and SK \\
non-illuminated push buttons, cover type attachment. \\
KR, SKR
\end{tabular} & \begin{tabular}{l} 
Attachment can be padlocked. Does not \\
hold button in depressed position.
\end{tabular} & K6 \\
\hline \begin{tabular}{l} 
Types K and SK \\
push buttons, cover type attachment.
\end{tabular} & \begin{tabular}{l} 
Spring loaded cover cannot be \\
padlocked. Does not hold button in \\
depressed position.
\end{tabular} & K60 \\
\hline \begin{tabular}{l} 
Types K and SK \\
push-pull operator and illuminated push buttons. KR8, \\
KR9
\end{tabular} & \begin{tabular}{l} 
Holds button in depressed position and \\
can be padlocked.
\end{tabular} & K62 \\
\hline \begin{tabular}{l} 
KR11U and KR12U \\
Interlocked Assembly
\end{tabular} & \begin{tabular}{l} 
Holds maintained button in depressed \\
position and can be padlocked.
\end{tabular} & K96 \\
\hline \begin{tabular}{l} 
Type KR9 \& SKR9 \\
Push-Pull operators-Non-Illuminated and Illuminated
\end{tabular} & \begin{tabular}{l} 
Holds button in depressed position. Can \\
be padlocked.
\end{tabular} & K162 \\
\hline
\end{tabular}

Table 19.292: Padlock Attachments
\begin{tabular}{l|l|c}
\multicolumn{1}{c|}{ Used On } & \multicolumn{1}{c}{ Description } & Type [148] \\
\begin{tabular}{l} 
Types K and SK \\
selector switches and \\
potentiometers (will not work with gloved-hand knob).
\end{tabular} & \begin{tabular}{l} 
Cover type attachment that can be \\
padlocked to keep unauthorized \\
personnel from tampering with the \\
operator.
\end{tabular} & K7 \\
\hline \begin{tabular}{l} 
Types K and SK \\
selector switches and \\
potentiometers (will not work with gloved-hand knob).
\end{tabular} & \begin{tabular}{l} 
Same as 9001K7 but with spring loaded \\
lockout cover.
\end{tabular} & K107 \\
\hline \begin{tabular}{l} 
Types K and SK \\
illuminated push buttons (with or without guard) and \\
key operated push buttons.
\end{tabular} & \begin{tabular}{l} 
Cover type attachment that can be \\
padlocked to keep unauthorized \\
personnel from tampering with the \\
operator.
\end{tabular} & K108 \\
\hline \begin{tabular}{l} 
Types K and SK \\
illuminated push buttons (with or without guard) and \\
key operated push buttons.
\end{tabular} & \begin{tabular}{l} 
Same as 9001K108 but with spring \\
loaded lockout cover.
\end{tabular} & K109 \\
\hline \begin{tabular}{l} 
Types K and SK \\
maintained push-pull operators using 1.375 in. dia. \\
mushroom buttons \\
(-20 series, see Additional Accessories for Type K and \\
SK Operators, page 19-99).
\end{tabular} & \begin{tabular}{l} 
Cover type attachment that holds \\
mushroom button in depressed position \\
and can be padlocked.
\end{tabular} & K110 \\
\hline
\end{tabular}

Mushroom Button Guards for Type K and SK Operators
Table 19.293: Mushroom Button Guards

\begin{tabular}{c|c|c} 
Description & Used On & Type [149] [150][151] \\
\begin{tabular}{c} 
Aluminum Mushroom Guard for \\
1.375 in. Mushroom Button Operator \\
(KR4, KR24)
\end{tabular} & KR4, KR24 & K48 \\
\hline \begin{tabular}{c} 
Yellow Plastic Extended Mushroom \\
Guard for 1.375 in. and 1.625 in. \\
Mushroom Button Operators
\end{tabular} & KR4, SKR4 & K56■ \\
\cline { 2 - 3 } \begin{tabular}{c} 
Aluminum Mushroom Guard for 2.25 \\
in. Mushroom Button Operator
\end{tabular} & KR8, KR9, SKR8, SKR9 & K56 \(4 \mathbf{M}\) \\
\cline { 2 - 3 } & KR5 & K68 \\
\hline
\end{tabular}
[148] When ordering, add prefix 9001 to the catalog number
[149] - \(B=\) Black \(G=\) Green \(R=\) Red \(Y=\) Yellow
[150] * R=Red Y=Yellow
[151] \(\boldsymbol{\Delta}\) The mushroom guard has finger holes for push-pull operators.
schneider-electric.us
Potective Boots for Type K and SK Operators


KU1



KU17


KU27

Table 19.294: Protective Boots
\begin{tabular}{|c|c|c|c|}
\hline \multicolumn{2}{|l|}{For Non-Illuminated Push Buttons [152]} & \multirow[t]{2}{*}{Clear Color for} & \multirow[t]{2}{*}{Type [153]} \\
\hline Color & Type [153] & & \\
\hline Black & KU1 & Standard knob selector switch & KU17 \\
\hline Red & KU2 & \multirow{3}{*}{Gloved-hand cap for use on standard knob selector switch} & \multirow{3}{*}{KU18} \\
\hline Blue & KU3 & & \\
\hline Brown & KU4 & & \\
\hline Green & KU5 & \multirow{3}{*}{Standard pilot light and maintained contact push buttons} & \multirow{3}{*}{KU27} \\
\hline Yellow & KU6 & & \\
\hline Clear & KU7 & & \\
\hline Clear & KU8 & Push-to-test and illuminated push button without guard & KU37 \\
\hline \multicolumn{2}{|l|}{(Provides Full Guard)} & Illuminated push button with guard & KU47 \\
\hline
\end{tabular}

NOTE: These Type KU protective boots are recommended for very dirty environments or severe hose down, but
they are not required for UL Type 4 rating on the Type K operators or UL Type 4 or 4 X rating on the Type SK they are not required for UL Type 4 rating on the Type K operators or UL Type 4 or 4 X rating on the Type SK operators. The K1 wrench (see Wrenches for Type K and SK Operators, page 19-101) is required for installation of these boots.

Closing Plates for Type K and SK Operators
Table 19.295: Closing Plates
\begin{tabular}{c|c|c} 
& Description & Type \\
\cline { 3 - 4 } & & \\
\hline
\end{tabular}

For Dimensions, see catalog 9001Ст0001

Additional Accessories for Type K and SK Operators

Table 19.296: Accessories
\begin{tabular}{|c|c|c|c|}
\hline Description & Color & Type [155] & Package Qty. \\
\hline \multirow[b]{4}{*}{\begin{tabular}{l}
Color inserts for KR1, KR2, KR3, SKR1, SKR2, SKR3, KR11, KR12, SKR11, SKR12, KRD, T, \\
TRD
\end{tabular}} & Black
Blue
Gray
Green
Orange
Red & T8BK
T8BE
T8GY
T8GN
T80E
T8RD & 10 \\
\hline & Universal [156] & T8U & 7 \\
\hline & White & T8WH & \multirow[b]{2}{*}{10} \\
\hline & Yellow & T8YW & \\
\hline \multirow[b]{3}{*}{1.375 in. Snap-in Mushroom knob for KR4 and SKR4 [157]} & Black Blue Green Orange
Red & \begin{tabular}{l}
K16B \\
K16L \\
K16G \\
K16R
\end{tabular} & \multirow[t]{3}{*}{1} \\
\hline & Red [158] & K16R05 & \\
\hline & Yellow & K16Y & \\
\hline \multirow[t]{3}{*}{2-1/4 in. Snap-in Mushroom knob for KR5 and SKR5 [159]} & Black Blue Green Orange
Red & \[
\begin{aligned}
& \hline \text { K17B } \\
& \text { K17L } \\
& \text { K17G } \\
& \text { K17S } \\
& \text { K17R } \\
& \hline
\end{aligned}
\] & \multirow[t]{3}{*}{1} \\
\hline & Red [158] & K17R05 & \\
\hline & Yellow & K17Y & \\
\hline 1-3/8 in. Screw-on Mushroom knob for KR24 and SKR24[160] & Black Blue Green Orange Red Yellow & \[
\begin{aligned}
& \text { K92B } \\
& \text { K92L } \\
& \text { K92G } \\
& \text { K92S } \\
& \text { K92R } \\
& \text { K92Y }
\end{aligned}
\] & 1 \\
\hline 2-1/4 in. Screw-on Mushroom knob for KR25 and SKR25 [161] & Black Blue Green Orange Red Yellow & \begin{tabular}{l}
K93B \\
K93L \\
K93G \\
K93S \\
K93Y
\end{tabular} & 1 \\
\hline  & Amber
Black[162]
Blue
Clear
Green
Orange [162]
Red & \[
\begin{aligned}
& \mathrm{A} 22 \\
& \mathrm{~B} 23 \\
& \mathrm{~L} 22 \\
& \mathrm{C} 22 \\
& \mathrm{G} 22 \\
& \mathrm{~S} 23 \\
& \mathrm{R} 22 \\
& \hline
\end{aligned}
\] & \multirow[t]{3}{*}{1} \\
\hline  & Red [163] & R2205 & \\
\hline KR8, KR9, SKR8, SKR9 Operators & White Yellow & \[
\begin{aligned}
& \text { W22 } \\
& \text { Y22 } \\
& \hline
\end{aligned}
\] & \\
\hline  & Black Green Red & \[
\begin{array}{r}
\text { B19 } \\
\text { G19 } \\
\text { R19 } \\
\hline
\end{array}
\] & \multirow{2}{*}{10} \\
\hline Color Inserts for Dual Function Operators KR6, KR7, KR67 & Universal [164] & U19 & \\
\hline  & Amber Blue Green Red White Yellow & \[
\begin{aligned}
& \text { A7 } \\
& \text { L7 } \\
& \text { C7 } \\
& \text { G7 } \\
& \text { W7 } \\
& \text { Y7 }
\end{aligned}
\] & 1 \\
\hline Knob for KR9R94 & Red & R94 & 1 \\
\hline Metal Knob for KR24 & Red Green Black & \[
\begin{aligned}
& \text { K92RM } \\
& \text { K92GM } \\
& \text { K92BM }
\end{aligned}
\] & 1 \\
\hline Metal Knob for KR25 & Red Green Black & \begin{tabular}{l}
K93RM \\
K93BM
\end{tabular} & 1 \\
\hline Metal Knob for KR9 ( 40 mm ) & Red Green Black & \[
\begin{aligned}
& \hline \text { K94RM } \\
& \text { K94GM } \\
& \text { K94BM } \\
& \hline
\end{aligned}
\] & 1 \\
\hline Metal Knob for KR9 ( 60 mm ) & \[
\begin{aligned}
& \text { Red } \\
& \text { Green } \\
& \text { Black }
\end{aligned}
\] & \[
\begin{aligned}
& \text { K95RM } \\
& \text { K95GM } \\
& \text { K95BM }
\end{aligned}
\] & 1 \\
\hline
\end{tabular}

Table 19.297: Accessories (Continued)
\begin{tabular}{|c|c|c|c|}
\hline Description & Color & Type [155] & Package Qty. \\
\hline 1-3/8 in. Mushroom Knob for Illuminated Push Buttons K2L, SK2L [165] & Amber Blue Clear Green Red White Yellow & \[
\begin{gathered}
\text { A20 } \\
\text { L20 } \\
\text { C20 } \\
\text { G20 } \\
\text { R20 } \\
\text { W20 } \\
\hline
\end{gathered}
\] & 1 \\
\hline 2-1/4 in. Mushroom Knob for Illuminated Push Buttons K2L, SK2L [165] & Amber Blue Green Red White Yellow & \[
\begin{aligned}
& \hline \text { A21 } \\
& \mathrm{L} 21 \\
& \mathrm{C} 21 \\
& \mathrm{G} 21 \\
& \mathrm{R} 21 \\
& \mathrm{~W} 21 \\
& \mathrm{Y} 21 \\
& \hline
\end{aligned}
\] & 1 \\
\hline Plastic Fresnel Pilot Light Lens for KP, KT, SKP, SKT & Amber Blue Clear Green Red White Yellow & \begin{tabular}{l}
A31 \\
L31 \\
C31 \\
G31 \\
W31 \\
Y31
\end{tabular} & 1 \\
\hline  & Amber Blue Clear Green Red White Yellow & \[
\begin{aligned}
& \text { A9 } \\
& \text { L9 } \\
& \text { C9 } \\
& \text { G9 } \\
& \text { W9 } \\
& \text { Y9 } \\
& \hline
\end{aligned}
\] & 1 \\
\hline Glass Pilot Light Lens for KP, KT & Amber Blue Clear Green Red White Yellow & \[
\begin{aligned}
& \hline \text { A6 } \\
& \text { L6 } \\
& \text { G6 } \\
& \text { R6 } \\
& \text { W6 } \\
& \text { Y6 }
\end{aligned}
\] & 1 \\
\hline Standard Selector Switch Knob for K and SK Selector Switches & \begin{tabular}{l} 
Amber \\
Black[11e2] \\
Blue \\
Clear \\
Green \\
Orange 1162\(]\) \\
Red \\
White \\
Yellow \\
\hline
\end{tabular} & \[
\begin{gathered}
\hline \text { A8 } \\
\text { B11 } \\
\text { L8 } \\
\text { C8 } \\
\text { G8 } \\
\text { S11 } \\
\text { R8 } \\
\text { W8 } \\
\text { Y8 } \\
\hline
\end{gathered}
\] & 1 \\
\hline Gloved-Hand Selector Switch Knob for K and SK Selector Switches & Amber
Black [172]
Blue
Clear
Green
Orange 1162\(]\)
Red
White
Yellow & A24
B25
L24
C24
G24
S25
R24
W24
Y24 & 1 \\
\hline Color Inserts for KQ and TQ Selector Push Buttons & Black Blue Green Orange Red White Yellow & T5BK T5BE T5GN T5OE T5WH T5YW & 10 \\
\hline Description & Cam & \multicolumn{2}{|l|}{Type} \\
\hline Selector Switch Cams & B
C
D
E
F
G
H
J
L
\(M\) & \multicolumn{2}{|c|}{\begin{tabular}{l}
K13B \\
K13C \\
K13D \\
K13E \\
K13G \\
K13H \\
K13J \\
K13L
K13M
\end{tabular}} \\
\hline
\end{tabular}
[156] Includes one each of the following color inserts: Black, Red, Green, Yellow, Orange, Blue, and White.
[157] The mushroom button cap listed here may be assembled to a 9001 KR1U or SKR1U to form a 9001 KR 4 or SKR4.
[158] "EMERGENCY STOP" is in raised letters and hot stamped white across the front of the mushroom button.
[159] The mushroom button cap listed here may be assembled to a 9001KR1U or SKR1U to form a 9001KR5 or SKR5.
[160] The mushroom button cap listed here may be assembled to a 9001 KR 20 to form a 9001 KR 24 or SKR20 to form a 9001 SKR24.
[161] The mushroom button cap listed here may be assembled to a 9001 KR 20 to form a 9001 KR 25 or a SKR20 to form a 9001 SKR25.
[162] These color caps are opaque and are for use on non-illuminated operators only.
[163] Red knob with "Push Emergency Stop" marked on top of knob.
[164] Includes two of each of the following color inserts: Black, Red, and Green.
[165] May be used on KR8 and KR9 operators. Order mushroom button and K54 adapter. Using the K54 adapter voids Type 6 rating

Ring Nuts for Type K and SK Operators
Table 19.298: Ring Nuts
\begin{tabular}{|c|c|c|c|}
\hline Used On & Type [166] & Used On & Type [166] \\
\hline K1L & K44 & SK1L & SK44 \\
\hline K30-K37 & K45 & - & - \\
\hline K70-K73 & K45 & - & - \\
\hline K20, K21, K22, K23 & K45 & SK20, SK21, SK22, SK23 & SK45 \\
\hline K20, K21, K22, K23 [167] & SK46 & SK20, SK21, SK22, SK23 [167] & SK46 \\
\hline K2L & K49 & SK2L & SK49 \\
\hline K3L (complete) & K111 & - & - \\
\hline K3L (metal top only) & 6515802701 & - & - \\
\hline KP, KTR & K41 & SKP, SKTR & SK41 \\
\hline KR1 & K41 & SKR1 & SK41 \\
\hline KR11 & K42 & SKR11 & SK42 \\
\hline KR12 [168] & K42 & SKR12 [168] & SK42 \\
\hline KR12 [169] & K41 & SKR12 [169] & SK41 \\
\hline KR13, 14, 15 & K55 & - & - \\
\hline KR2 & K42 & SKR2 & SK42 \\
\hline KR20 & K49 & - & - \\
\hline KR24 & K49 & - & - \\
\hline KR25 & K49 & SKR25 & SK49 \\
\hline KR3 & K40 & SKR3 & SK40 \\
\hline KR4 & K41 & SKR4 & SK41 \\
\hline KR5 & K41 & SKR5 & SK41 \\
\hline KR6 & K47 & - & - \\
\hline KR67 & K47 & - & - \\
\hline KR7 & K47 & - & - \\
\hline KR8 & K58 & SKR8 & 6509704401 \\
\hline KR9 & K41 & SKR9 & SK41 \\
\hline KS & K45 & SKS & SK45 \\
\hline KS [167] & SK46 & \begin{tabular}{l}
SKS [167] \\
SKRU11 \\
SKRU1,2,3,4,5,10
\end{tabular} & \[
\begin{aligned}
& \text { SK46 } \\
& \text { SK41 } \\
& \text { SK40 }
\end{aligned}
\] \\
\hline KT & K49 & SKT & SK49 \\
\hline
\end{tabular}

Replacement and Repair Parts for Type K and SK Operators
Table 19.300: Repair Parts
\begin{tabular}{l|c} 
Description & Part Number \\
E10 Key & 2941101100 \\
\hline Gray cap for KR11, KR12, SKR11, or SKR12 & 3105217001 \\
\hline Clear plastic top (only) for 9001K44 \& SK44 Ring Nut) & 4487 D 63 XI \\
\hline Gasket for Type K and SK Push-Pull Knob & 6509701801 \\
\hline Gasket for Plastic Illuminated Lens & 6509701901 \\
\hline Gasket for Type K and SK selector switch knob & 3105406401 \\
\hline Black Compensating Gasket (Type K and SK Operators) & 6509702001 \\
\hline Liner for Non-Illuminated Operators & 6509704901 \\
\hline Locking Thrust Washer & 6512231201 \\
\hline Nylon Spacer & 6509705001 \\
\hline Locking Thrust Washer (Std. Type SK Operator) & 6512240601 \\
\hline Push-Pull Mushroom Adapter [171] & 6554 \\
\hline Rubber Boot for Joystick & \(6458 \mathrm{D} 20 \times 3201\) \\
\hline Knob on Joysticks without latch & 3105404408 \\
\hline Knob for SK Potentiometer & 6508804101 \\
\hline Fingersafe \({ }^{\text {TM }}\) Cover for 9001 KM &
\end{tabular}

Table 19.301: KU Replacement Ring Nuts
(Threaded Inside and Out)
\begin{tabular}{l|c} 
Used On & Part Number \\
KU1 through KU8, KU27, KU37, KU47 & 3105204101 \\
\hline KU17, KU18 & 3105205901 \\
\hline
\end{tabular}

\footnotetext{
[166] When ordering, add prefix 9001 to the catalog number.
167] Secondary ring nut (holds knob on selector switch or potentiometer).
[168] Maintained button of two button operator.
[169] Momentary button of two button operator.
[170] GE44 and GE755 are interchangeable (GE755 gives longer life). If a GE44 lamp is ordered, a GE755 (2550101020) will be substituted. For a replacement lamp in a current series light module, seeStandard and Shallow Depth Light Modules, page 19-91.
[171] Allows Type -20 and -21 mushroom color caps to be used on push-pull operators. Use of 9001 K 54 voids Type 6 rating
}

\section*{Interlock for Type K and SK Operators}

For mechanically interlocking two push buttons so that only one button can be depressed at a time. A Type K3 attachment is furnished with the 9001 KR11, KR12, SKR11, SKR12, SKRU1 and SKRU11 operators. However, these are maintained operators and the K3 interlock serves to release one of the buttons when the other is depressed. When used with momentary contact buttons, the K3 interlock does not hold the buttons in the depressed position. It simply prevents pushing both buttons at the same time.

Table 19.302: Interlock
\begin{tabular}{l|c}
\multicolumn{1}{c|}{ Description } & Type \\
\hline The Type K3 interlock is mounted behind the operators. Operators not included. & K3 \\
\hline NOTE: When ordering, add prefix 9001 to the catalog number.
\end{tabular}

\section*{Screwdriver for Type K and SK Operators}

Table 19.303: Screwdriver
\begin{tabular}{l|c}
\hline \multicolumn{1}{c}{ Description } & Type \\
\hline Used to tighten mounting screws on contact blocks and light modules. & K69 \\
\hline NOTE: When ordering, add prefix 9001 to the catalog number. & \\
Wrenches for Type K and SK Operators & \\
Table 19.304: Wrenches \(\quad\) Where Used & Type \\
\begin{tabular}{l|l} 
For tightening ring nuts on 22 and 30 mm control units & K95 \\
\hline For tightening threaded protective caps & K1 \\
\hline NOTE: When ordering, add prefix 9001 to the catalog number.
\end{tabular}
\end{tabular}

NOTE: When ordering, add prefix 9001 to the catalog number.


KX Square Push Buttons with Contacts
Table 19.305: Push Buttons-Single, with Contacts
\begin{tabular}{|c|c|c|c|c|c|}
\hline Description & Button Color & Legend Marking & Contacts & Voltage & Type [1] \\
\hline \multirow{5}{*}{Non-Illuminated} & Green & Start & 1 N.O. & - & KXRA133 \\
\hline & Red & Stop & 1 N.C. & - & KXRA134 \\
\hline & Amber & blank & 2 N.O., 2 N.C. & - & KXRAAH2 \\
\hline & Green & blank & 2 N.O., 2 N.C. & - & KXRAGH2 \\
\hline & Blue & blank & 2 N.O., 2 N.C. & - & KXRALH2 \\
\hline \multirow{6}{*}{Illuminated} & Amber & blank & 1 N.O., 1 N.C. & 24 & KXRB34AH1 \\
\hline & Green & blank & 1 N.O., 1 N.C. & 24 & KXRB34GH1 \\
\hline & Red & blank & 1 N.O., 1 N.C. & 24 & KXRB34RH1 \\
\hline & Amber & blank & 1 N.O., 1 N.C. & 110/120 & KXRB1AH1 \\
\hline & Green & blank & 1 N.O., 1 N.C. & 110/120 & KXRB1GH1 \\
\hline & Red & blank & 1 N.O., 1 N.C. & 110/120 & KXRB1RH1 \\
\hline
\end{tabular}

Table 19.306: Push Buttons-Dual, with Contacts
\begin{tabular}{l|l|l|l|c}
\hline Description & Top Button (\#1) & Lower Button (\#2) & Contacts & Type [1] \\
\hline Momentary & Start (Green) & Stop (Red) & 2 N.O., 2 N.C. & KXRC111 \\
\hline Momentary & Start (Green) & Stop (Red) & 1 N/O, 1 N/C & KXRC136 \\
\hline Momentary & Up (Green) & Down (Green) & 2 N.O. & KXRD140 \\
\hline Momentary & blank (Blue) & blank (Blue) & 2 N.O. & KXRDLLH7 \\
\hline Maintained[2] & Start (Green) & Stop (Red) & 1 N.O., 1 N.C. & KXRE115 \\
\hline Maintained [2] & On (Blue) [3] & Off (Blue) [3] & 3 N.O., 3 N.C. & KXRELLH3 \\
\hline Maintained [2] & On (Blue) [3] & Off (Blue) [3] & 3 N.O., 3 N.C. & KXRELLH3 \\
\hline Maintained [2] & On (Blue) [3] & Off (Blue) [3] & 2 N.O., 2 N.C. & KXRELLH2 \\
\hline
\end{tabular}

Table 19.307: Push Buttons—Dual with One Pilot Light and Contacts
\begin{tabular}{l|l|l|l|l|l|c} 
Description & \begin{tabular}{l} 
Top Button \\
\((\# 1)\)
\end{tabular} & \begin{tabular}{l} 
Middle Lens \\
\((\# 2)\)
\end{tabular} & \begin{tabular}{l} 
Lower Button \\
\((\# 3)\)
\end{tabular} & Contacts & Voltage & Type [1] \\
\hline Momentary & \begin{tabular}{l} 
Start \\
(Green)
\end{tabular} & On (Red) & Stop (Red) & 2 N.O., 2 N.C. & \(110 / 120\) & KXRG117 \\
\hline Momentary & \begin{tabular}{l} 
Start \\
(Green)
\end{tabular} & On (Red) & Stop (Red) & 1 N.O., 1 N.C. & \(110 / 120\) & KXRG137 \\
\hline Maintained & \begin{tabular}{l} 
Start \\
(Green)
\end{tabular} & On (Red) & Stop (Red) & 1 N.O., 1 N.C & \(110 / 120\) & KXRJ119 \\
\hline
\end{tabular}

Table 19.308: Push Buttons-Dual with Two Pilot Lights and Contacts
\begin{tabular}{l|l|l|l|l|l|l|c} 
Description & \begin{tabular}{l} 
Top \\
Button \\
(\#1)
\end{tabular} & \begin{tabular}{l} 
Left \\
Lens (\#2)
\end{tabular} & \begin{tabular}{l} 
Right \\
Lens (\#3)
\end{tabular} & \begin{tabular}{l} 
Lower \\
Button (\#4)
\end{tabular} & Contacts & Voltage & Type [1] \\
\hline Momentary & \begin{tabular}{l} 
Start \\
(Green)
\end{tabular} & On (Red) & \begin{tabular}{l} 
Off \\
(Green)
\end{tabular} & Stop (Red) & 2 N.C., 2 N.C & \(110 / 120\) & KXRL121 \\
\hline Momentary & \begin{tabular}{l} 
Start \\
(Green)
\end{tabular} & On (Red) & \begin{tabular}{l} 
Off \\
(Green)
\end{tabular} & Stop (Red) & 1 N.O., 1 N.C. & \(110 / 120\) & KXRL138 \\
\hline Momentary & \begin{tabular}{l} 
Start \\
(Green)
\end{tabular} & On (Red) & \begin{tabular}{l} 
Off \\
(Green)
\end{tabular} & Stop (Red) & 2 N.C., 2 N.C & 24 & KXRL34GRGRH2 \\
\hline Momentary & \begin{tabular}{l} 
Start \\
(Green)
\end{tabular} & On (Red) & \begin{tabular}{l} 
Off \\
(Green)
\end{tabular} & Stop (Red) & 1 N.O., 1 N.C. & 24 & KXRL34GRGRH37 \\
\hline
\end{tabular}

KX Square Selector Switches with Contacts
Table 19.309: Selector Switches-with Contacts
\begin{tabular}{l|l|l|l|l|l|c}
\hline Description & Legend & Knob & \multicolumn{2}{|c|}{ Type [1] } \\
\cline { 1 - 3 } 2-position, maintained & Off-On & Black & 1 & 0 & & \multirow{2}{*}{ KXSA125 } \\
\hline \cline { 3 - 5 } & 2-position, maintained & Off-On & Black & 1 & & \\
\hline 3-position, maintained & Hand-Off-Auto & Black & 0 & & KXSA139 \\
\hline
\end{tabular}

\section*{KX Square Potentiometers}

Table 19.310: Potentiometers
\begin{tabular}{l|l|l|c} 
Table 19.310. Potentiometrs & Resistance & Type \([1]\) \\
\hline Description & Power & 3.2 kW & KXB06 \\
\hline Single & 2 W & 5 kW & KXBB07 \\
\hline Single & 2 W & 10 kW & KXBB08 \\
\hline Single & 2 W & \(5 \mathrm{~kW} / 5 \mathrm{~kW}\) & KXBD83 \\
\hline Tandem & 2 W & &
\end{tabular}

\footnotetext{
[1] When ordering, add prefix 9001 to the catalog number
[2] Maintained operators are mechanically interlocked
[3] Text is vertical
}

KX Square Pilot Lights
Table 19.311: Pilot Lights[4]
\begin{tabular}{l|l|l|l|l|l|c}
\hline Description & Voltage & Lens 1 & Lens 2 & Lens 3 & Lens 4 & Type [5] \\
\hline Single & 24 & Amber & & & & KXPA35A \\
\hline Single & 24 & Red & & & & KXPA35R \\
\hline Single & 24 & Green & & & & KXPA35G \\
\hline Single & 24 & White & & & & KXPA35W \\
\hline Single & \(110 / 120\) & Amber & & & & KXPA1A \\
\hline Single & \(110 / 120\) & Red & & & & KXPA1R \\
\hline Single & \(110 / 120\) & Green & & & & KXPA1G \\
\hline Single & \(110 / 120\) & White & & & & KXPA1W \\
\hline Dual & 24 & Amber & Amber & & & KXPB34AA \\
\hline Dual & 24 & Red & Red & & & KXPB34RR \\
\hline Dual & 24 & Green & Green & & & KXPB34GG \\
\hline Dual & 24 & White & White & & & KXPB34WW \\
\hline Dual & 24 & Red & Green & & & KXPB1AA \\
\hline Dual & \(110 / 120\) & Amber & Amber & & & KXPB1RR \\
\hline Dual & \(110 / 120\) & Red & Red & & & KXPB1GG \\
\hline Dual & \(110 / 120\) & Green & Green & & & KXPB1WW \\
\hline Dual & \(110 / 120\) & White & White & & & KXPB1RG \\
\hline Dual & \(110 / 120\) & Red & Green & & KXPC34WAGR \\
\hline Quad & 24 & White & Amber & Green & Red & KXPC1WAGR \\
\hline Quad & \(110 / 120\) & White & Amber & Green & Red & KXPC1WLGR \\
\hline Quad & \(110 / 120\) & White & Blue & Green & Red & K
\end{tabular}

KX Square Push Buttons without Contacts
Table 19.312: Push Buttons-without Contacts [6]
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{Push Button} & Action & Lens Color (1) & Lens Color (2) & Type [5] \\
\hline \multicolumn{6}{|l|}{Single Push Button} \\
\hline & \multirow{5}{*}{Non-Illuminated} & \multirow{5}{*}{Momentary} & Amber & - & KXRAA \\
\hline & & & Green & - & KXRAG \\
\hline & & & Blue & - & KXRAL \\
\hline & & & Red & - & KXRAR \\
\hline & & & White & - & KXRAW \\
\hline & \multirow{5}{*}{Illuminated 24 V} & \multirow{5}{*}{Momentary} & Amber & - & KXRB35A \\
\hline & & & Green & - & KXRB35G \\
\hline & & & Blue & - & KXRB35L \\
\hline Stant & & & Red & - & KXRB35R \\
\hline & & & White & - & KXRB35W \\
\hline & \multirow{5}{*}{Illuminated 110/120 V} & \multirow{5}{*}{Momentary} & Amber & - & KXRB38A \\
\hline & & & Green & - & KXRB38G \\
\hline & & & Blue & - & KXRB38L \\
\hline & & & Red & - & KXRB38R \\
\hline & & & White & - & KXRB38W \\
\hline \multicolumn{6}{|l|}{Dual Push Button} \\
\hline & \multirow{6}{*}{Non-Illuminated} & \multirow[t]{3}{*}{Momentary + Interlock} & Green & Red & KXRCGR \\
\hline \multirow{5}{*}{\[
\text { DON: } 2
\]} & & & White & White & KXRCWW \\
\hline & & & Green & Green & KXRCGG \\
\hline & & \multirow{3}{*}{Maintained + Interlock} & Green & Red & KXREGR \\
\hline & & & White & White & KXREWW \\
\hline & & & Green & Green & KXREGG \\
\hline
\end{tabular}

Table 19.313: Dual Push Button with Pilot Light—without Contacts \({ }^{[6]}\)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline & Action & Voltage & Lens Color (1) & Lens Color (2) & Lens Color (3) & Lens Color (4) & Type [5] \\
\hline \multicolumn{8}{|l|}{With One Pilot Light} \\
\hline \multirow{12}{*}{} & \multirow{4}{*}{Momentary} & \(24 \mathrm{Vac} / \mathrm{dc}\) & Red & White & Green & - & KXRG35RWG \\
\hline & & \(24 \mathrm{Vac} / \mathrm{dc}\) & Green & White & Green & - & KXRG35GWG \\
\hline & & 110/120 Vac/dc & Red & White & Green & - & KXRG38RWG \\
\hline & & 110/120 Vac/dc & Green & White & Green & - & KXRG38GWG \\
\hline & \multirow{4}{*}{Momentary + Interlock} & \(24 \mathrm{Vac} / \mathrm{dc}\) & Red & White & Green & - & KXRH35RWG \\
\hline & & \(24 \mathrm{Vac} / \mathrm{dc}\) & Green & White & Green & - & KXRH354GWG \\
\hline & & 110/120 Vac/dc & Red & White & Green & - & KXRH38RWG \\
\hline & & 110/120 Vac/dc & Green & White & Green & - & KXRH38GWG \\
\hline & \multirow{4}{*}{Maintained + Interlock} & \(24 \mathrm{Vac} / \mathrm{dc}\) & Red & White & Green & - & KXRJ35RWG \\
\hline & & \(24 \mathrm{Vac} / \mathrm{dc}\) & Green & White & Green & - & KXRJ35GWG \\
\hline & & 110/120 Vac/dc & Red & White & Green & - & KXRJ38RWG \\
\hline & & 110/120 Vac/dc & Green & White & Green & - & KXRJ38GWG \\
\hline \multicolumn{8}{|l|}{With Two Pilot Lights} \\
\hline & \multirow{4}{*}{Momentary} & \(24 \mathrm{Vac} / \mathrm{dc}\) & Red & White & White & Green & KXRL35RWWG \\
\hline & & \(24 \mathrm{Vac} / \mathrm{dc}\) & Red & Red & Green & Green & KXRL35GGRR \\
\hline +1 & & 110/120 Vac/dc & Red & White & White & Green & KXRL38RWWG \\
\hline N1-1 & & 110/120 Vac/dc & Red & Red & Green & Green & KXRL38GGRR \\
\hline -2 & \multirow{4}{*}{Momentary + Interlock} & \(24 \mathrm{Vac} / \mathrm{dc}\) & Red & White & White & Green & KXRM35RWWG \\
\hline - 3 & & \(24 \mathrm{Vac} / \mathrm{dc}\) & Red & Red & Green & Green & KXRM35RRGG \\
\hline 4 & & 110/120 Vac/dc & Red & White & White & Green & KXRM38RWWG \\
\hline & & 110/120 Vac/dc & Red & Red & Green & Green & KXRM38RRGG \\
\hline
\end{tabular}

KX Square Selectors without Contacts
Table 19.314: Selectors-without Contacts [7]

\begin{tabular}{|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{Description} & Voltage & Knob Color & Type [8] \\
\hline \multirow{10}{*}{2-Position, Maintained} & Non-Illuminated & - & Black & KXSAEB \\
\hline & Illuminated & \(24 \mathrm{Vac} / \mathrm{dc}\) & Red & KXSJE35R \\
\hline & Illuminated & \(24 \mathrm{Vac} / \mathrm{dc}\) & Green & KXSJE35G \\
\hline & Illuminated & \(24 \mathrm{Vac} / \mathrm{dc}\) & White & KXSJE35W \\
\hline & Illuminated & \(120 \mathrm{Vac} / \mathrm{dc}\) & Red & KXSJE38R \\
\hline & Illuminated & \(120 \mathrm{Vac} / \mathrm{dc}\) & Green & KXSJE38G \\
\hline & Illuminated & \(120 \mathrm{Vac} / \mathrm{dc}\) & White & KXSJE38W \\
\hline & Key (Withdraw L) & - & N/A & KXSRE1 \\
\hline & Key (Withdraw R) & - & N/A & KXSRE2 \\
\hline & Key (Withdraw Both) & - & N/A & KXSRE3 \\
\hline \multirow{3}{*}{3-Position, Maintained} & Non-Illuminated & - & Black & KXSDCB \\
\hline & Key (Withdraw C) & - & N/A & KXSVC5 \\
\hline & Key (Withdraw All) & - & N/A & KXSVC10 \\
\hline 4-Position, Maintained & Non-Illuminated & - & Black & KXSHHB \\
\hline
\end{tabular}

\section*{Contact Blocks}

Table 19.315: Contact Blocks—Purchase Separately
\begin{tabular}{|c|c|c|}
\hline & Description & Type [8] \\
\hline  & 1 N.O., 1 N.C. & KA1 \\
\hline (Green Cover) & 1 N.O. & KA2 \\
\hline (Red Cover) & 1 N.C. & KA3 \\
\hline (Clear Cover) & 1 N.C., 1 N.O. (Early Make) & KA4 \\
\hline (Red Cover) & 1 N.C. (Late Break) & KA5 \\
\hline (Green Cover) & 1 N.O. (Early Make) & KA6 \\
\hline
\end{tabular}

\footnotetext{
[7] Order contacts separately (See Table 19.315 Contact Blocks, page 19-104)
}
[8] When ordering, add prefix 9001 to the catalog number.

Table 19.316: Legend Plates for Selector Switches
\begin{tabular}{|c|c|c|}
\hline \multirow[b]{2}{*}{Marking} & \multicolumn{2}{|c|}{Used On [9]} \\
\hline & KXSA, KXSB, KXSC, KXSD, KXSE, KXSF, KXSG, KXSH, KXSJ, KXSK, KXSL, KXSM, KXSN, KXSO, KXSP, KXSQ & KXSR, KXSS, KXST, KXSV, KXSW, KXSX, KXSY, KXSZ \\
\hline & \begin{tabular}{l}
\(\xrightarrow[\begin{array}{c}34 \\ \text { Square }\end{array}]{\substack{1.33}}\) \\
KXN-600
\end{tabular} & \begin{tabular}{l}
\[
\xrightarrow[34]{\stackrel{1.33}{\longrightarrow}} \mid
\] \\
Square \\
KXN-700
\end{tabular} \\
\hline \begin{tabular}{l}
Blank \\
For.-Rev. \\
Hand-Auto \\
Man-Auto \\
Off-On \\
On-Off \\
Open-Close \\
Start-Stop \\
Auto-Off-Hand \\
Hand-Off-Auto \\
Man-Off-Auto
\end{tabular} & \begin{tabular}{l}
KXN600 \\
KXN639 \\
KXN640 \\
KXN643 \\
KXN644 \\
KXN645 \\
KXN646 \\
KXN651 \\
KXN658 \\
KXN660 \\
KXN662
\end{tabular} & \begin{tabular}{l}
KXN700 \\
KXN739 \\
KXN740 \\
KXN743 \\
KXN744 \\
KXN745 \\
KXN746 \\
KXN751 \\
KXN758 \\
KXN760 \\
KXN762
\end{tabular} \\
\hline Special Marking & KXN699 & KXN799 \\
\hline
\end{tabular}

Table 19.318: Letter Height For Standard Legends
\begin{tabular}{c|c|c} 
& in. & mm \\
KXN100 & 1.4 & 6 \\
KXN200 & \(3 / 16\) & 4.75 \\
KXN300 & \(3 / 16\) & 4.75 \\
KNN400 & 316 & 4.75 \\
KXN500 & \(3 / 16\) & 4.55 \\
KXN600 & 18 & 3 \\
KXN700 & 18 & 3 \\
\hline
\end{tabular}

Table 19.320: Maximum Number of Lines and Characters for Type KXN699 and KXN799 Legend Plates
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Position} & \multicolumn{2}{|c|}{Letter Height} & \multicolumn{2}{|l|}{Characters Per Marking Area} \\
\hline & in. & mm & A and C & B \\
\hline \(\bigcirc\) & 3/16 & 4.75 & 6 & 6 \\
\hline \(\bigcirc\) & 18 & 3 & 8 & 9 \\
\hline \({ }^{\text {A }} \longrightarrow\) & 3/16 & 4.75 & 10 & 5 \\
\hline \(\square\) & 18 & 3 & 13 & 7 \\
\hline
\end{tabular}


\footnotetext{
[9] When ordering, add prefix 9001 to the catalog number.
[10] These legend inserts have vertical printing.
[11] These legend inserts are for the pilot lights in the center of the operator.
[12] These legend inserts are for the push button portion of the operator.
}

Type KX Legend Plates
Table 19.317: Legend Plates for Push Buttons or Pilot Lights
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[b]{3}{*}{Marking} & \multicolumn{6}{|c|}{Used On [9]} \\
\hline & A & B & C & D & E & F \\
\hline & KXRA, KXRB KXRN, KXRP KXPA, KXPC KXTA, KXTB KXTE & KXRC, KXRD KXRE, KXRF & \[
\begin{gathered}
\text { KXPB } \\
\text { KXTD [10] }
\end{gathered}
\] & KXRG, KXRH KXRJ, KXRK [11] & \[
\begin{aligned}
& \text { KXRG, } \\
& \text { KXRH } \\
& \text { KXRJ, } \\
& \text { KXRK } \\
& \text { KXRL, } \\
& \text { KXRM } \\
& \text { KXTC [12] }
\end{aligned}
\] & \[
\begin{aligned}
& \text { KXRL, } \\
& \text { KXRM } \\
& \text { KXTC [11] }
\end{aligned}
\] \\
\hline & \begin{tabular}{l}
\[
\left|\stackrel{|c|}{\frac{1.23}{31}}\right|
\]
\(\square\) \\
A
\end{tabular} & & cal) &  & E &  \\
\hline \begin{tabular}{l}
Blank \\
Start \\
Stop \\
On \\
Off \\
Emerg. Stop \\
Forward \\
Reverse \\
Close \\
Open \\
Down \\
Up \\
Jog \\
Reset \\
Run \\
Cycle Start \\
Motor Run \\
Power On
\end{tabular} & \begin{tabular}{l}
KXN100 \\
KXN101 \\
KXN102 \\
KXN103 \\
KXN104 \\
KXN105 \\
KXN106 \\
KXN107 \\
KXN108 \\
KXN109 \\
KXN110 \\
KXN111 \\
KXN118 \\
KXN123 \\
KXN124 \\
KXN132 \\
KXN136 \\
KXN138
\end{tabular} & \begin{tabular}{l}
KXN200 \\
KXN201 \\
KXN202 \\
KXN203 \\
KXN204 \\
KXN205 \\
KXN206 \\
KXN207 \\
KXN208 \\
KXN209 \\
KXN210 \\
KXN211 \\
KXN218 \\
KXN223 \\
KXN224 \\
KXN232 \\
KXN236 \\
KXN238
\end{tabular} & KXN200
KXN201V
KXN202V
KXN203V
KXN204V
KXN205V
KXN206V
KXN207V
KXN208V
KXN209V
KXN210V
KXN211V
KXN218V
KXN223V
KXN224V
KXN232V
KXN236V
KXN238V & \begin{tabular}{l}
KXN300 \\
KXN301 \\
KXN302 \\
KXN303 \\
KXN304 \\
KXN305 \\
KXN306 \\
KXN307 \\
KXN308 \\
KXN309 \\
KXN310 \\
KXN311 \\
KXN318 \\
KXN323 \\
KXN324 \\
KXN332 \\
KXN336 \\
KXN338
\end{tabular} & \begin{tabular}{l}
KXN400 \\
KXN401 \\
KXN402 \\
KXN403 \\
KXN404 \\
KXN405 \\
KXN406 \\
KXN407 \\
KXN408 \\
KXN409 \\
KXN410 \\
KXN411 \\
KXN418 \\
KXN423 \\
KXN424 \\
KXN432 \\
KXN436 \\
KXN438
\end{tabular} & \begin{tabular}{l}
KXN500 \\
KXN501 \\
KXN502 \\
KXN503 \\
KXN504 \\
KXN505 \\
KXN506 \\
KXN507 \\
KXN508 \\
KXN509 \\
KXN510 \\
KXN511 \\
KXN518 \\
KXN523 \\
KXN524 \\
KXN532 \\
KXN536 \\
KXN538
\end{tabular} \\
\hline SpecialMarking & KXN199 & KXN299 & KXN299V & KXN399 & KXN499 & KXN599 \\
\hline
\end{tabular}

Table 19.319: Maximum Number of Lines and Characters
For Type KXN Legend Inserts
\begin{tabular}{c|c|c|c|c|c|c|c}
\multicolumn{2}{c}{\begin{tabular}{c} 
Letter \\
Height
\end{tabular}} & \begin{tabular}{l} 
Number \\
of \(\ldots\)
\end{tabular} & KXN199 & \begin{tabular}{c} 
KXN299 \\
Horizontal
\end{tabular} & \begin{tabular}{c} 
KXN299 \\
Vertical
\end{tabular} & KXN399 & KXN499
\end{tabular} KXN599

All Type KX push buttons and pilot lights have a blank insert as standard. These blank inserts can be custom marked using a marking pen, a mechanical lettering set, press letters, or a tape lettering machine that marks a tape which can then be transferred to the blank insert.
To have legend inserts installed into the operators, order the operator as normal and then indicate where to install the legend inserts using the numbered positions shown on the operator ordered.

Example
9001KXRL1GRGRH2 with a
9001 KXN 401 in position 1
9001 KXN 503 in position 2
9001 KXN 504 in position 3
9001 KXN 402 in position 4

9001KXN 402 in position schneider-electric.us

Table 19.321: Closing Plate
\begin{tabular}{c|c} 
Description & \\
& \\
UL Types 4, 13/NEMA 4, 13 \\
Square Closing Plate (Chrome \\
Plated) \\
Same size as KX bezel
\end{tabular}\(\quad\) KXAK52

Table 19.322: Boots


Table 19.324: Lamp and Lens Removal Kit
\begin{tabular}{|c|c} 
Description & Type \\
\hline \begin{tabular}{l} 
Used to remove lamp and lens on all \\
illuminated operators and pilot lights.
\end{tabular} & \\
\hline
\end{tabular}

Additional Accessories for Type KX Operators
Table 19.325: Button Covers
\begin{tabular}{|c|c|c|c|c|}
\hline Description & For Use On & Color & Type & Code \\
\hline Includes 2-KXN200 & \[
\begin{aligned}
& \text { KXPB } \\
& \text { KXTD }
\end{aligned}
\] & Red Green Amber Blue White & \[
\begin{aligned}
& \text { KXAC28 [13] } \\
& \text { KXAC28 }[13] \\
& \text { KXAC28 [13] } \\
& \text { KXAC28 [113] } \\
& \text { KXAC28 [13] } \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \mathrm{R}[14]] \\
& \mathrm{G}[14]] \\
& \mathrm{A}[14] \\
& \mathrm{L}[14] \\
& \mathrm{W}[14] \\
& \hline
\end{aligned}
\] \\
\hline Includes KXN400 & KXTC (Position 1 \& 4) & Red Green Amber Blue White & \[
\begin{aligned}
& \hline \text { KXAR4 } \\
& \text { KXAG4 } \\
& \text { KXAA4 } \\
& \text { KXAL4 } \\
& \text { KXAW4 }
\end{aligned}
\] & \[
\begin{aligned}
& \hline R \\
& G \\
& A \\
& A \\
& L \\
& W \\
& \hline
\end{aligned}
\] \\
\hline  & KXTC (Position 2 \& 3) & Red Green Amber Blue White & \begin{tabular}{l}
KXAR5 \\
KXAG5 \\
KXAA5 \\
KXAL5 \\
KXAW5
\end{tabular} & \[
\begin{aligned}
& \hline R \\
& G \\
& G \\
& A \\
& L \\
& W \\
& \hline
\end{aligned}
\] \\
\hline  & KXPC & Red Green Amber Blue White & \begin{tabular}{l}
KXAC48 [15] \\
KXAC48 [15] \\
KXAC48 [15] \\
KXAC48 [15]
KXAC48 [15]
\end{tabular} & \[
\begin{aligned}
& \mathrm{R}[16] \\
& \mathrm{G}[16] \\
& \mathrm{A}[16] \\
& \mathrm{L}[16] \\
& \mathrm{W}[16] \\
& \hline
\end{aligned}
\] \\
\hline Includes KXN100 & \[
\begin{aligned}
& \text { KXRA } \\
& \text { KXRB }
\end{aligned}
\] & Red Green Amber Blue White & \begin{tabular}{l}
KXAR1 \\
KXAG1 \\
KXAA1 \\
KXAL1 \\
KXAW1
\end{tabular} & \[
\begin{aligned}
& R \\
& \text { R } \\
& A \\
& L \\
& L
\end{aligned}
\] \\
\hline Includes KXN100 & \[
\begin{aligned}
& \text { KXRN } \\
& \text { KXRP }
\end{aligned}
\] & Red Green Amber Blue White & \begin{tabular}{l}
KXARM1 \\
KXAGM1 \\
KXAAM1 \\
KXALM1 \\
KXAWM1
\end{tabular} & \(R\)
R
A
\(L\)
W \\
\hline Includes KXN200
[17] & \[
\begin{aligned}
& \text { KXRC } \\
& \text { KXRD } \\
& \text { KXRE } \\
& \text { KXRF }
\end{aligned}
\] & Red Green Amber Blue White & \begin{tabular}{l}
KXAR2 \\
KXAG2 \\
KXAA2 \\
KXAL2 \\
KXAW2
\end{tabular} & \[
\begin{aligned}
& R \\
& \mathrm{G} \\
& \mathrm{~A} \\
& \mathrm{~L} \\
& \mathrm{~W} \\
& \hline
\end{aligned}
\] \\
\hline Includes KXN300 & \[
\begin{aligned}
& \text { KXRG (Position 2) } \\
& \text { KXRH (Position 2) } \\
& \text { KXRJ (Position 2) } \\
& \text { KXRK (Position 2) }
\end{aligned}
\] & Red Green Amber Blue White & \begin{tabular}{l}
KXAR3 \\
KXAG3 \\
KXAA3 \\
KXAL3 \\
KXAW3
\end{tabular} & \[
\begin{aligned}
& R \\
& \text { R } \\
& \text { A } \\
& L \\
& W
\end{aligned}
\] \\
\hline Includes KXN400 & \begin{tabular}{l}
KXRG (Position 1 \& 3) \\
KXRH (Position 1 \& 3) \\
KXRJ (Position 1 \& 3) \\
KXRK (Position \(1 \& 3\)
KXRL (Position \(1 \& 4)\)
K \\
KXRL (Position \(1 \& 4)\)
KXRM (Position \(1 \& 4)\)
\end{tabular} & Red Green Amber Blue White & \begin{tabular}{l}
KXAR4 \\
KXAG4 \\
KXAA4 \\
KXAL4 \\
KXAW4
\end{tabular} & \[
\begin{aligned}
& R \\
& G \\
& A \\
& A \\
& W
\end{aligned}
\] \\
\hline Includes KXN500 & KXRL (Position 2 \& 3) KXRM (Position 2 \& 3) & Red Green Amber Blue White & \[
\begin{aligned}
& \text { KXAR5 } \\
& \text { KXAG5 } \\
& \text { KXAA5 } \\
& \text { KXAL5 } \\
& \text { KXAW5 }
\end{aligned}
\] & \[
\begin{aligned}
& R \\
& \mathrm{R} \\
& \mathrm{~A} \\
& \mathrm{~L} \\
& \mathrm{~W}
\end{aligned}
\] \\
\hline  & KXPA & Red Green Amber Blue White & \[
\begin{aligned}
& \hline \text { KXAR8 } \\
& \text { KXAGB } \\
& \text { KXAAB } \\
& \text { KXALB } \\
& \text { KXAW8 } \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \hline R \\
& \mathrm{R} \\
& \mathrm{~A} \\
& \mathrm{~L} \\
& \mathrm{~W} \\
& \hline
\end{aligned}
\] \\
\hline Includes KXN100 & \[
\begin{aligned}
& \text { KXTA } \\
& \text { KXTB }
\end{aligned}
\] & Red Green Amber Blue White & \begin{tabular}{l}
KXAR1 \\
KXAG1 \\
KXAA1 \\
KXAL1
\end{tabular} & \[
\begin{aligned}
& \hline R \\
& \mathrm{R} \\
& \mathrm{~A} \\
& \mathrm{~L} \\
& \mathrm{~W} \\
& \hline
\end{aligned}
\] \\
\hline
\end{tabular}


XALD101H29H7


XALK174H7


XALD211H29H7


XALD321H29H7

XAL Control Stations, Enclosures, and Accessories
Table 19.326: Start or Stop Function Polycarbonate; Light gray base, RAL7035; Dark gray lid, RAL7016
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Description} & \multirow[t]{2}{*}{Type of Push} & \multicolumn{2}{|l|}{Type of Contact} & \multirow[t]{2}{*}{Marking} & \multirow[t]{2}{*}{Catalog Number} \\
\hline & & N.O. & N.C. & & \\
\hline \multicolumn{6}{|l|}{Marking on Legend Holder} \\
\hline \multirow[b]{2}{*}{1 momentary push button} & Flush black & 1 & - & Start & XALD101H29H7 \\
\hline & Flush red & - & 1 & Stop & XALD111H29H7 \\
\hline \multicolumn{6}{|l|}{Marking on Legend Holder} \\
\hline 1 mushroom head push button \(\varnothing 40 \mathrm{~mm}\), momentary & Red & - & 1 & Stop on red legend & XALD164H29H7 \\
\hline
\end{tabular}

Table 19.327: Trigger Action Emergency Stop
Polycarbonate; Light gray base, RAL7035; Yellow lid, RAL1012
\begin{tabular}{l|c|c|c|c}
\multicolumn{1}{c|}{ Description } & \multirow{2}{*}{ Type } & \multicolumn{2}{c|}{ Type of Contact } & Catalog Number \\
\cline { 3 - 4 } \begin{tabular}{l}
1 mushroom head push button \(\varnothing 40\) \\
mm, red \\
Turn-to-release
\end{tabular} & Trigger action [1] & N.O. & N.C. & 1
\end{tabular} XALK178H7

Table 19.328: Start-Stop Function Polycarbonate; Light gray base, RAL7035; Dark gray lid, RAL7016
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Description} & \multirow[t]{2}{*}{Type of Push} & \multicolumn{2}{|c|}{Type of Contact} & \multirow[b]{2}{*}{Text} & \multirow[t]{2}{*}{\begin{tabular}{l}
Catalog \\
Number
\end{tabular}} \\
\hline & & N.O. & N.C. & & \\
\hline \multirow[t]{2}{*}{2 momentary push buttons} & 1 flush black 1 flush red & \[
1
\] & 1 & Start Stop & XALD211H29H7 \\
\hline & 1 flush black 1 flush black & \[
\begin{aligned}
& \hline 1 \\
& 1 \\
& \hline
\end{aligned}
\] & - & Forward Reverse & XALD251H29H7 \\
\hline
\end{tabular}

Table 19.329: Three Function Polycarbonate; Light gray base, RAL7035; Dark gray lid, RAL7016
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Description} & \multirow[t]{2}{*}{Type of Push} & \multicolumn{2}{|c|}{Type of Contact} & \multirow[t]{2}{*}{Text} & \multirow[t]{2}{*}{Catalog Number} \\
\hline & & N.O. & N.C. & & \\
\hline \multirow{3}{*}{3 momentary push buttons (no markings)} & \multirow{3}{*}{1 flush black 1 flush red 1 flush black} & \(\frac{1}{1}\) & \(\overline{1}\) & Open Stop Close & XALD351H29H7 \\
\hline & & \(\frac{1}{1}\) & - & Forward Stop Reverse & XALD311H29H7 \\
\hline & & \(\frac{1}{1}\) & \(\overline{1}\) & \[
\begin{gathered}
\text { Up } \\
\text { Stop } \\
\text { Down } \\
\hline
\end{gathered}
\] & XALD321H29H7 \\
\hline
\end{tabular}

Table 19.330: Empty Enclosures[3]
\begin{tabular}{|c|c|c|}
\hline Description & Number of Holes & Catalog Number \\
\hline \multicolumn{3}{|l|}{For normal environments, CSA approved and UL Listed (with stainless steel lid mounting screws)} \\
\hline Light gray base RAL7035 Dark gray lid RAL7016 & \[
\begin{aligned}
& 1 \\
& 2 \\
& 3 \\
& 4 \\
& 5 \\
& \hline
\end{aligned}
\] & \begin{tabular}{l}
XALD01H7 \\
XALD02H7 \\
XALD03H7 \\
XALD04H7 \\
XALD05H7
\end{tabular} \\
\hline Light gray base RAL7035 Yellow lid RAL1012 & 1 & XALK01H7 \\
\hline
\end{tabular}

Table 19.331: Electrical Block and Accessories (for mounting on metal plate at back of enclosure) [3]
\begin{tabular}{|c|c|c|c|}
\hline Description & Type & Color & Catalog Number \\
\hline \multicolumn{4}{|l|}{Electrical blocks with screw clamp terminal connections} \\
\hline \multirow[t]{2}{*}{Metal-plate-mounting contact blocks} & N.O. contact & - & ZENL1111 \\
\hline & N.C. contact & - & ZENL1121 \\
\hline \multirow[t]{3}{*}{Light blocks with} & \(24 \mathrm{Vac} / \mathrm{Vdc}\) & White Green Red Yellow Blue & \[
\begin{aligned}
& \text { ZALVB1 } \\
& \text { ZALVB3 } \\
& \text { ZALVB4 } \\
& \text { ZALVB5 } \\
& \text { ZALVB6 }
\end{aligned}
\] \\
\hline & 120 Vac & White Green Red Yellow Blue & \[
\begin{aligned}
& \hline \text { ZALVG1 } \\
& \text { ZALVG3 } \\
& \text { ZALVG4 } \\
& \text { ZALVG5 } \\
& \text { ZALVG6 } \\
& \hline
\end{aligned}
\] \\
\hline & 230 Vac & White Green Red Yellow Blue & \begin{tabular}{l}
ZALVM1 \\
ZALVM3 \\
ZALVM4 \\
ZALVM5 \\
ZALVM6
\end{tabular} \\
\hline
\end{tabular}

Table 19.332: Accessories for electrical blocks



ZB5AZ905
\begin{tabular}{l|c|c}
\multicolumn{1}{c|}{ Description } & Application & Catalog Number \\
Blanking plug & \(\varnothing 22\) mm units & ZB5SZ3 \\
\hline Nut & Head mounting & ZB5AZ901 \\
\hline Grounding terminal & Grounding & XALZ09 \\
\hline Key & For tightening nut & ZB5AZ905 \\
\hline
\end{tabular}

XAP Enclosures and Accessories
Table 19.333: Undrilled Enclosures, Glass-Reinforced Polyester
\begin{tabular}{|c|c|c|c|c|}
\hline \multicolumn{2}{|c|}{\multirow[t]{2}{*}{Type}} & \multicolumn{2}{|l|}{H x W Dimensions} & \multirow[t]{2}{*}{\begin{tabular}{l}
Catalog \\
Number
\end{tabular}} \\
\hline & & IN & mm & \\
\hline \multirow{4}{*}{\begin{tabular}{l}
NEMA 4, 4X, 13 \\
Usable depth \(3.27 \mathrm{in}\). ( 83 mm )
\end{tabular}} & \multirow{3}{*}{Without hinges} & \(3.34 \times 5.75\) & \(85 \times 146\) & XAPA1100 \\
\hline & & \(3.34 \times 8.90\) & \(85 \times 226\) & XAPA2100 \\
\hline & & \(5.95 \times 9.49\) & \(151 \times 241\) & XAPA3100 \\
\hline & With hinges & \(5.95 \times 9.49\) & \(151 \times 241\) & XAPA4100 \\
\hline \multirow{3}{*}{Undrilled Grounding Plate} & \multirow[b]{3}{*}{Sheet steel with ground screw} & \multicolumn{2}{|l|}{For XAPA1100} & XAPZ100 \\
\hline & & \multicolumn{2}{|l|}{For XAPA2100} & XAPZ200 \\
\hline & & \multicolumn{2}{|l|}{For XAPA3100 and 4100} & XAPZ300 \\
\hline
\end{tabular}

Table 19.334: Drilled Insulated Enclosures, Glass-Reinforced Polyester [4]
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Type} & \multirow[t]{2}{*}{Number of Knockouts 22 mm} & \multicolumn{2}{|l|}{Number of Rows} & \multicolumn{2}{|l|}{H x W Dimensions} & \multirow[t]{2}{*}{\begin{tabular}{l}
Catalog \\
Number
\end{tabular}} \\
\hline & & Vertical & Horizontal & IN & mm & \\
\hline \multirow[t]{5}{*}{NEMA 4, 4X, 13 Usable depth 3.27 in. \((83 \mathrm{~mm}) 1.58 \mathrm{in}\). (40 mm ) centerline spacing of holes} & 1 & 1 & 1 & \(3.35 \times 5.75\) & \(85 \times 146\) & XAPA1110 \\
\hline & 2 & 1 & 2 & \(3.35 \times 5.75\) & \(85 \times 146\) & XAPA1120 \\
\hline & 4 & 2 & 2 & \(3.35 \times 5.75\) & \(85 \times 146\) & XAPA1104 \\
\hline & 8 & 2 & 4 & \(3.35 \times 8.90\) & \(85 \times 226\) & XAPA2108 \\
\hline & 16 & 4 & 4 & \(5.94 \times 9.49\) & \(151 \times 241\) & XAPA3116 \\
\hline \multicolumn{2}{|l|}{\multirow{5}{*}{Drilled Grounding Plate}} & \multicolumn{2}{|l|}{\multirow{5}{*}{Sheet steel with ground screw}} & \multicolumn{2}{|l|}{For XAPA1110} & XAPZ110 \\
\hline & & & & \multicolumn{2}{|l|}{For XAPA1120} & XAPZ120 \\
\hline & & & & \multicolumn{2}{|l|}{For XAPA1104} & XAPZ104 \\
\hline & & & & \multicolumn{2}{|l|}{For XAPA2108} & XAPZ208 \\
\hline & & & & \multicolumn{2}{|l|}{For XAPA3116} & XAPZ316 \\
\hline
\end{tabular}

Table 19.335: Undrilled Die Cast Enclosures (Painted Gray RAL7032)
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Type} & \multirow[t]{2}{*}{Material} & \multicolumn{2}{|l|}{Usable Depth} & \multicolumn{2}{|l|}{H x W x D Dimensions} & \multirow[t]{2}{*}{Catalog Number} \\
\hline & & IN & mm & IN & mm & \\
\hline \multirow{8}{*}{NEMA 4, 13} & \multirow{7}{*}{Zinc} & \multirow{3}{*}{1.93} & \multirow{3}{*}{49} & \(3.15 \times 3.15 \times 2.03\) & \(80 \times 80 \times 51.5\) & XAPG19100 \\
\hline & & & & \(5.12 \times 3.15 \times 2.03\) & \(130 \times 80 \times 51.5\) & XAPG29100 \\
\hline & & & & \(6.89 \times 3.15 \times 2.03\) & \(175 \times 80 \times 51.5\) & XAPG39100 \\
\hline & & \multirow{4}{*}{2.93} & \multirow{4}{*}{74.5} & \(3.15 \times 3.15 \times 3.03\) & \(80 \times 80 \times 77\) & XAPG19400 \\
\hline & & & & \(5.12 \times 3.15 \times 3.03\) & \(130 \times 80 \times 77\) & XAPG29400 \\
\hline & & & & \(6.89 \times 3.15 \times 3.03\) & \(175 \times 80 \times 77\) & XAPG39400 \\
\hline & & & & \(8.66 \times 3.15 \times 3.03\) & \(220 \times 80 \times 77\) & XAPG49400 \\
\hline & Aluminum & 2.93 & 2.93 & \(12.20 \times 3.35 \times 3.03\) & \(310 \times 85 \times 77\) & XAPG59400 \\
\hline
\end{tabular}
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Table 19.336: Drilled Die Cast Enclosures (Painted Gray RAL7032) [5]
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline & \multirow{2}{*}{Type} & \multirow{2}{*}{Material} & \multicolumn{2}{|l|}{Usable Depth} & \multirow[t]{2}{*}{Number of 22 mm holes} & \multicolumn{2}{|c|}{H x W x D Dimensions} & \multirow{2}{*}{Catalog Number} \\
\hline & & & IN & mm & & IN & mm & \\
\hline & \multirow{6}{*}{\begin{tabular}{l}
NEMA 4, 13 \\
1.18 in . ( 30 mm ) centerline spacing of holes for horizontal mount
\end{tabular}} & \multirow{6}{*}{Zinc} & \multirow{3}{*}{1.93} & \multirow{3}{*}{49} & 2 & \(3.15 \times 3.15 \times 2.03\) & \(80 \times 80 \times 51.5\) & XAPG19702 \\
\hline & & & & & 3 & \(5.12 \times 3.15 \times 2.03\) & \(130 \times 80 \times 51.5\) & XAPG29703 \\
\hline & & & & & 4 & \(6.90 \times 3.15 \times 2.03\) & \(175 \times 80 \times 51.5\) & XAPG39704 \\
\hline & & & \multirow{3}{*}{2.93} & \multirow{3}{*}{74.5} & 2 & \(3.15 \times 3.15 \times 3.03\) & \(80 \times 80 \times 77\) & XAPG19802 \\
\hline & & & & & 3 & \(5.12 \times 3.15 \times 3.03\) & \(130 \times 80 \times 77\) & XAPG29803 \\
\hline & & & & & 4 & \(6.90 \times 3.15 \times 3.03\) & \(175 \times 80 \times 77\) & XAPG39804 \\
\hline & \multirow{8}{*}{NEMA 4, 13 1.58 in . ( 40 mm ) centerline spacing of holes for vertical mount} & \multirow{7}{*}{Zinc} & \multirow{3}{*}{1.93} & \multirow{3}{*}{1.93} & 1 & \(3.15 \times 3.15 \times 2.03\) & \(80 \times 80 \times 51.5\) & XAPG19201 \\
\hline & & & & & 2 & \(5.12 \times 3.15 \times 2.03\) & \(130 \times 80 \times 51.5\) & XAPG29202 \\
\hline & & & & & 3 & \(6.90 \times 3.15 \times 2.03\) & \(175 \times 80 \times 51.5\) & XAPG39203 \\
\hline & & & \multirow{4}{*}{2.93} & \multirow{4}{*}{74.5} & 1 & \(3.15 \times 3.15 \times 3.03\) & \(80 \times 80 \times 77\) & XAPG19501 \\
\hline & & & & & 2 & \(5.12 \times 3.15 \times 3.03\) & \(130 \times 80 \times 77\) & XAPG29502 \\
\hline \multirow[t]{3}{*}{XAPG29703} & & & & & 3 & \(6.90 \times 3.15 \times 3.03\) & \(175 \times 80 \times 77\) & XAPG39503 \\
\hline & & & & & 4 & \(8.66 \times 3.15 \times 3.03\) & \(220 \times 80 \times 77\) & XAPG49504 \\
\hline & & Aluminum & 2.93 & 74.5 & 5 & \(12.20 \times 3.35 \times 3.03\) & \(310 \times 85 \times 77\) & XAPG59505 \\
\hline
\end{tabular}

Table 19.337: Drilled Flush Plates [5]
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Type} & \multirow[t]{2}{*}{Material} & \multirow[t]{2}{*}{Number of 22 mm holes} & \multicolumn{2}{|l|}{H x W x D Dimensions} & \multirow[t]{2}{*}{\begin{tabular}{l}
Catalog \\
Number
\end{tabular}} \\
\hline & & & IN & mm & \\
\hline \multirow{5}{*}{\[
\begin{aligned}
& \text { NEMA 4, } 13 \\
& 1.18 \text { in. ( } 30 \mathrm{~mm} \text { ) } \\
& \text { centerline spacing } \\
& \text { of holes }
\end{aligned}
\]} & \multirow{5}{*}{Anodized Aluminum} & 1 & \(2.83 \times 2.83\) & \(72 \times 72\) & XAPE301 \\
\hline & & 2 & \(4.13 \times 2.83\) & \(105 \times 72\) & XAPE302 \\
\hline & & 3 & \(5.43 \times 2.83\) & \(138 \times 72\) & XAPE303 \\
\hline & & 4 & \(6.73 \times 2.83\) & \(171 \times 72\) & XAPE304 \\
\hline & & 5 & \(8.03 \times 2.83\) & \(204 \times 72\) & XAPE305 \\
\hline
\end{tabular}

Table 19.338: Optional Back Box (for finger protection, if required)
\begin{tabular}{c|c|c|c} 
Type & Material & For Use With & \begin{tabular}{c} 
Catalog \\
Number
\end{tabular} \\
\cline { 1 - 4 } & \multirow{4}{*}{ Protective rear covers } & \multirow{3}{*}{ Insulating Fiberglass } & Flush plate XAPE301 \\
\cline { 3 - 4 } & & Flush plate XAPE302 & XAPE901 \\
\cline { 3 - 4 } & & Flush plate XAPE303 & XAPE902 \\
\cline { 3 - 4 } & & Flush plate XAPE3004 & XAPE904 \\
\cline { 3 - 4 } & & Flush plate XAPE305 & XAPE905 \\
\hline
\end{tabular}
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\section*{9001B Standard Duty Control Stations}

Table 19.339: Control Stations


NEMA 4 Type BW243


NEMA 1 Flush Mounting (w/o pullbox) Type BF201


NEMA 7 and 9 Type BR103

Table 19.340: Accessories
\begin{tabular}{l|l|c}
\hline Description & Color & Type [9] \\
\hline Mushroom Caps for NEMA 1 & Red & B301 \\
\hline Mushroom Caps for NEMA 4 & Red & B303 \\
\hline Lockout Kit for NEMA 1 & - & B321 \\
\hline \begin{tabular}{l} 
Pilot Light Lenses, NEMA 1 Surface \\
Mount
\end{tabular} & Red & B331 \\
\hline Pilot Light Lenses, NEMA 1 Surface & Green & B332 \\
\hline Mount & Pilot Light Lenses, NEMA 1 Flush Mount & Red \\
\hline Pilot Light Lenses, NEMA 1 Flush Mount & Green & B341 \\
\hline Replacement Covers for BW240 [10] & - & B342 \\
\hline Replacement Covers for BW241 [11][10] & - & BWD219 \\
\hline \begin{tabular}{l} 
Replacement Covers for BW242-BW260 \\
[10]
\end{tabular} & - & BWD219 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline No. of Buttons & Nameplate Markings and Features & Contact Symbol [6] & Surface Mounting NEMA1 & Stainless Steel Flush Plate [7] & Watertight and Dusttight NEMA4 & \begin{tabular}{l}
For \\
Hazardous \\
Locations \\
NEMA 7 \&
\[
9 \text { [8] }
\]
\end{tabular} \\
\hline & & & Type [9] & Type [9] & Type [9] & Type [9] \\
\hline \multirow{8}{*}{1} & Start & 1 & BG101 & BF101 & BW146 & BR101 \\
\hline & Stop & 3 & BG102 & BF102 & BW147 & - \\
\hline & Stop (Mushroom Button) & 3 & BG103 & - & BW151 & BR103 \\
\hline & Stop (Lockout) & 3 & BG104 & - & BW148 & BR104 \\
\hline & Universal (w/o legend insert) & 16 & BG107 & BF107 & BW159 & BR107 \\
\hline & Off-On (Selector Switch) & 19 & BG111 & - & - & - \\
\hline & \[
\begin{aligned}
& \text { Hand-Off-Auto (Selector } \\
& \text { Switch) }
\end{aligned}
\] & 17 & BG112 & - & - & - \\
\hline & Universal Selector Switch (w/o legend insert) & 19 or 17 & BG114 & - & - & - \\
\hline \multirow{15}{*}{2} & Start-Stop & 145 & BG201 & BF201 & BW240 & BR204 \\
\hline & \[
\begin{aligned}
& \hline \text { Start-Stop (for latching } \\
& \text { Applications) }
\end{aligned}
\] & 146 & BG202 & - & BW252 & BR202 \\
\hline & \[
\begin{aligned}
& \text { Start-Stop (Mushroom on } \\
& \text { Stop) }
\end{aligned}
\] & 145 & BG203 & - & BW250 & BR203 \\
\hline & Start-Stop (Lockout on Stop) & 145 & BG204 & - & BW241 & BR204 \\
\hline & Start-Stop (Mushroom on both) & 145 & BG205 & - & BW246 & BR205 \\
\hline & Forward-Reverse & 146 & BG206 & - & BW242 & - \\
\hline & Open-Close & 146 & BG207 & - & BW244 & - \\
\hline & Up-Down & 146 & BG208 & BF208 & BW243 & BR208 \\
\hline & Raise-Lower & 146 & BG209 & - & BW253 & - \\
\hline & On-Off & 145 & BG210 & BF210 & BW245 & - \\
\hline & On-Off & 146 & BG211 & BF211 & BW254 & - \\
\hline & \begin{tabular}{l} 
Universal (w/o legend \\
inserts) \\
\hline
\end{tabular} & 25 & BG214 & - & BW260 & BR214 \\
\hline & Start-Stop (Maintained
Contact) & 10 & BG215 & BF215 & BW255 & BR215 \\
\hline & On -Off (Maintained Contact) & 10 & BG216 & BF216 & BW256 & BR216 \\
\hline & Universal (Maintained contact w/o legend inserts) & 10 & BG218 & - & - & BR218 \\
\hline \multirow{8}{*}{3} & Fast-Slow-Stop & 109 & BG301 & - & - & - \\
\hline & Forward-Reverse-Stop & 109 & BG302 & - & - & - \\
\hline & Opn-Close-Stop & 109 & BG303 & BF303 & - & - \\
\hline & Raise-Lower-Stop & 109 & BG304 & - & - & - \\
\hline & Up-Down-Stop & 109 & BG305 & BF305 & - & - \\
\hline & Start-Jog-Stop & 109 & BG316 & - & - & - \\
\hline & \begin{tabular}{|l|}
\hline \(\begin{array}{l}\text { Universal (w/o legend } \\
\text { inserts) }\end{array}\) \\
\hline
\end{tabular} & 8 & BG307 & - & - & - \\
\hline & Start-Stop, Red Pilot Light:
120Vac/dc & 145 \& 121 & BG308 & BF308 & - & - \\
\hline
\end{tabular}

Table 19.341: Interchangeable Push Button Legend Inserts
\begin{tabular}{|c|c|c|c|c|}
\hline Marking & For NEMA 1 Surface Mount [9] & For NEMA 4 or 7/9 Lever Type [9] & For NEMA 4 Round Button [9] & For NEMA4 Mushroom Button [9] \\
\hline Start & B101 & B161 & B259 & B282 \\
\hline Stop & B102 & B162 & B260 & B283 \\
\hline Fast & B103 & - & - & - \\
\hline Slow & B104 & - & - & - \\
\hline Forward & B105 & - & B255 & - \\
\hline Reverse & B106 & - & B256 & - \\
\hline Open & B107 & - & B263 & - \\
\hline Close & B108 & - & B264 & - \\
\hline Raise & B109 & - & B261 & - \\
\hline Lower & B110 & - & B262 & \\
\hline Up & B111 & - & B253 & B276 \\
\hline Down & B112 & - & B254 & B277 \\
\hline On & B115 & B175 & B257 & - \\
\hline Off & B116 & B176 & B258 & - \\
\hline Hand & B117 & - & B265 & - \\
\hline Auto & B118 & - & B266 & - \\
\hline Jog & B119 & - & - & - \\
\hline Blank (Black) & B129 & B189 & B251 & B251 \\
\hline Blank (Red) & B129R & B189R & B252 & B252 \\
\hline
\end{tabular}

For Replacement Interiors, see Replacement Interiors for Type B Standard Duty Push Button Stations, page 19-111.
For Ratings, see Electrical Contact Ratings, page 19-111.

\footnotetext{
[6] See Table 19.342 Replacement Interiors For Type B Standard Duty Push Button Stations, page 19-111.
[7] Uses standard 2.0 or 2.13 in. deep wall boxes, single gang for Types BF1 and BF2, two gang for Type BF3
[8] Also rated for Class I, Division I and II, Groups B, C, or D; Class II, Division I and II, Groups E, F, or G
[9] When ordering, add prefix 9001 to the catalog number.
[10] Replacement case/covers are not avaiulable for Type BR devices.
[11] Includes factory installed lockout on the cover.
}

Replacement Parts for Type B Standard Duty Control Stations
Table 19.342: Replacement Interiors For Type B Standard Duty Push Button Stations
\begin{tabular}{|c|c|c|c|}
\hline For Control Station & \multirow[t]{2}{*}{Contact Symbol} & Contact Block Assembly [1] & Terminal Block Wiring Receptacle \\
\hline Type & & Type & Type \\
\hline BF101-BF107 & 16 & BOC107 & BFB107 \\
\hline BF111-BF114 & 19 or 17 & BOC114 & BFB114 \\
\hline BF121-BF123 & 121 & BOC123 & BFB123 \\
\hline BF201-BF214 & 25 & BOC214 & BFB214 \\
\hline BF215-BF218 & 10 & BOC218 & BFB214 \\
\hline BF221-BF224 & 7 or 19 \& 121 & BOC224 & BFB224 \\
\hline BF225-BF226 & 17 or 19 \& 16 & BOC226 & BFB226 \\
\hline BF301-BF307 & 8 & BOC214 \& BOC107 & \[
\begin{gathered}
\hline \text { BFB214 \& } \\
\text { BFB107 } \\
\hline
\end{gathered}
\] \\
\hline BF308-BF309 & \[
\begin{array}{r}
25 \\
\& 121 \\
\hline
\end{array}
\] & BOC214 \& BOC123 & BFB214 \& BFB123 \\
\hline BF310-BF313 & 10 \& 121 & BOC218 \& BOC123 & \[
\begin{gathered}
\hline \text { BFB214 \& } \\
\text { BFB123 } \\
\hline
\end{gathered}
\] \\
\hline BF314-BF315 & 17 or 19 \& 25 & BOC214 \& BOC114 & BFB214 \& BFB114 \\
\hline BG101-BG107 & 16 & BGC107 & BGB107 \\
\hline BG111-BG114 & 17 or 19 & BGC114 & BGB114 \\
\hline BG121-BG123 & 121 & BGC123 & BGB123 \\
\hline BG201-BG214 & 25 & BGC214 & BGB214 \\
\hline BG215-BG218 & 10 & BGC218 & BGB214 \\
\hline BG221-BG224 & 17 or 19 \& 121 & BGC224 & BGB224 \\
\hline BG225-BG226 & 17 or 19 \& 16 & BGC226 & BGB226 \\
\hline BG301-BG307
BG316-BG326 & 8 & BGC307 & BGB307 \\
\hline BG308-BG309 & 25 \& 121 & BGC309 & BGB309 \\
\hline BG310-BG313 & 10 \& 121 & BGC313 & BGB309 \\
\hline BG314-BG315 & 17 or 19 \& 25 & BGC315 & BGB315 \\
\hline BR101-BR107 & 16 & B0C107 & BFB107 \\
\hline BR202-BR214 & 25 & BOC214 & BFB214 \\
\hline BR215-BR219 & 10 & BOC218 & BFB214 \\
\hline BW101-BW107 & 16 & BOC107 & BFB107 \\
\hline BW202-BW214 & 25 & BOC214 & BFB214 \\
\hline BW215-BW218 & 10 & BOC218 & BFB214 \\
\hline BW146-BW159 & 16 & BOC360 & \\
\hline BW240-BW260 & 25 & BOC361 & \\
\hline BW255-BW258 & 10 & BOC362 & \\
\hline
\end{tabular}

NOTE: Contact block assemblies for all Type BG stations include cover and contact block. Replacement contact block assemblies and terminal block wiring receptacles for push buttons have provision for 1 N.O. \& 1 N.C. circuit on each button. Unneeded circuits need not be wired.
Table 19.343: Mounting Bracket
\begin{tabular}{c|c} 
Description & Catalog Number \\
\hline C-Shaped Mounting Bracket for 9001BR Interior & 3110112001 \\
\hline
\end{tabular}

Table 19.344: Electrical Contact Ratings [2]
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow{4}{*}{Volts} & \multicolumn{6}{|c|}{AC-NEMA B600} & \multicolumn{3}{|c|}{DC-NEMA P600} \\
\hline & \multicolumn{5}{|c|}{Inductive 35\% Power Factor} & Resistive 75\% Power Factor & \multirow{3}{*}{Volts} & \multicolumn{2}{|r|}{Inductive and Resistive} \\
\hline & \multicolumn{2}{|c|}{Make} & \multicolumn{2}{|c|}{Break} & \multirow[t]{2}{*}{Continuous Carrying Amperes} & \multirow[t]{2}{*}{Make, Break and Continuous Carrying Amperes} & & \multirow[t]{2}{*}{Make and Break Amperes} & \multirow[t]{2}{*}{Continuous Carrying Amperes} \\
\hline & A & VA & A & VA & & & & & \\
\hline 120 & 30.5 & 3600 & 3.75 & 360 & 5 & 5 & & & \\
\hline 240 & 15 & 3600 & 1.5 & 360 & 5 & 5 & 240 & 1.1 & 5 \\
\hline 480 & 7.5 & 3600 & . 75 & 360 & 5 & 5 & 600 & 0.55
0.2 & 5
5 \\
\hline 600 & 6 & 3600 & . 6 & 360 & 5 & 5 & 600 & & 5 \\
\hline
\end{tabular}

Contact Symbols


9001KY and 9001SKY Control Stations
Table 19.345: Empty Enclosures (for Customer Assembly) [1]
\begin{tabular}{|c|c|c|c|c|}
\hline & \[
\begin{aligned}
& \text { UL Types } 1,3 \text { and } 13 / \\
& \text { NEMA } 1,3 \text {, and } 13
\end{aligned}
\] & UL Types 1, 3, 4 and 13/ NEMA 1, 3, 4 and 13 & \multicolumn{2}{|c|}{UL Types 1, 3, 4, 4X and 13/ NEMA 1, 3, 4, 4X and 13} \\
\hline &  &  &  &  \\
\hline of Holes & Sheet Steel & Die Cast Zinc & Stainless Steel (304) & Polymeric (Plastic) \\
\hline of Holes & Type & Type & Type & Type \\
\hline 1 & KYAF1 & KY1 & KYSS1 & SKY1 \\
\hline 2 & KYAF2 & KY2 [2] & KYSS2 & SKY2 \\
\hline 3 & KYAF3 & KY3 [2] & KYSS3 & SKY3 \\
\hline 4 & KYAF4 & KY4 [2] & KYSS4 & SKY4 \\
\hline 6 & KYAF6 & KY6 & KYSS6 & SKY6 \\
\hline
\end{tabular}

NOTE: See Table 19.348 Assembled Control Stations, page 19-113
Table 19.346: Guarded Enclosures
re
\begin{tabular}{c|c|c|c|}
\hline \multicolumn{3}{|c|}{ UL Types 1, 3, 4 and 13/ } \\
NEMA 1, 3, 4 and 13 \\
\hline \multirow{2}{*}{ No of Holes } & Cover Color & Die Cast Zinc & Type \\
\cline { 2 - 4 } & Gray & Gray & KYG1 [3] \\
\hline 1 & Yellow & Gray & KYG1Y [3] \\
\hline 1 & &
\end{tabular}

NOTE: See Table 19.348 Assembled Control Stations, page 19-113
Table 19.347: Stainless Steel (302) NEMA 1 Flush Plates [4]
\begin{tabular}{c|l|c} 
No of Holes & \multicolumn{1}{|c}{ Description } & Type \\
1 & 1 Hole flush plate, cover screws, insulating liners & K25 \\
\hline 2 & 2 Hole flush plate, cover screws, insulating liners & K26 \\
\hline 3 & 3 Hole flush plate, cover screws, insulating liners & K27 \\
\hline 4 & 4 Hole flush plate, cover screws, insulating liners & K28 \\
\hline
\end{tabular}
 blocks are mounted in tandem, a 3.5 in . deep box should be used.

9001KY/SKY Control Stations
30 mm Enclosures
Class 9001 / Refer to Catalog 9001CT1104
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Assembled 9001KY/SKY Control Stations
Table 19.348: Assembled Control Stations

[5] Uses 9001 K metal operators and metal legend plates.
[6] Control Station consists of components that are UL listed for use in Class 1, Division 2, Groups A, B, C, or D
[7] Uses 9001 K metal operators and plastic legend plates.
[8] Uses 9001SK plastic operators and plastic legend plates.
[9] Includes 1" NPT threaded conduit opening
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\section*{New!) Point of Purchase-PoP Products}

Schneider Electric has recently expanded its line of Point of Purchase Blister Packs, comprised of 36 popular products, including: push-buttons, pendants, signaling and relay devices. These blister packs are conveniently packaged with all the associated components and accessories that you'll need to complete your installation. Point-ofPurchase packaging makes it easy for you, so you can just grab what you need and go

Table 19.349: 30 mm Push Buttons


9001AB1


9001AE3


XB4AB1


XALACS2


XVCTL1


XVB 70 mm Diameter Beacons
Table 19.356: XVB Beacons with Steady Light
\begin{tabular}{|c|c|c|c|}
\hline Description & Light Source and Voltage & Color & Catalog Number \\
\hline \multirow{6}{*}{\begin{tabular}{l}
Complete unit, includes: \\
1 lens unit 1 base unit (direct or tube mounting)
\end{tabular}} & \multirow[b]{6}{*}{\begin{tabular}{l}
Bulb (10 W max) \\
not included \\
250 V max \\
(must order bulb separately
[1])
\end{tabular}} & Green & XVBL33 \\
\hline & & Red & XVBL34 \\
\hline & & Amber & XVBL35 \\
\hline & & Blue & XVBL36 \\
\hline & & Clear & XVBL37 \\
\hline & & Yellow & XVBL38 \\
\hline
\end{tabular}

Table 19.357: XVB Beacons with Flashing Light (one flash per second)
\begin{tabular}{|c|c|c|c|}
\hline Description & Light Source and Voltage & Color & Catalog Number \\
\hline \multirow{12}{*}{\begin{tabular}{l}
Complete unit, includes: \\
1 lens unit 1 base unit (direct or tube mounting)
\end{tabular}} & \multirow[t]{6}{*}{\begin{tabular}{l}
Bulb (10 W max) \\
not included \\
24 Vac \\
24-48 Vdc \\
(must order bulb separately
[1])
\end{tabular}} & Green & XVBL4B3 \\
\hline & & Red & XVBL4B4 \\
\hline & & Amber & XVBL4B5 \\
\hline & & Blue & XVBL4B6 \\
\hline & & Clear & XVBL4B7 \\
\hline & & Yellow & XVBL4B8 \\
\hline & \multirow{6}{*}{\begin{tabular}{l}
Bulb (10 W max) \\
not included \\
48-230 Vac \\
(must order bulb separately \\
[1])
\end{tabular}} & Green & XVBL4M3 \\
\hline & & Red & XVBL4M4 \\
\hline & & Amber & XVBL4M5 \\
\hline & & Blue & XVBL4M6 \\
\hline & & Clear & XVBL4M7 \\
\hline & & Yellow & XVBL4M8 \\
\hline
\end{tabular}

Table 19.358: XVB Beacons with 10 Joule Strobe ( 2.75 in. \(/ 70\) mm diameter) \({ }^{[2]}\)
\begin{tabular}{|c|c|c|c|}
\hline Description & Light Source and Voltage & Color & Catalog Number [3] \\
\hline \multirow{12}{*}{\begin{tabular}{l}
Complete unit, includes: \\
1 lens unit 1 base unit (direct or tube mounting)
\end{tabular}} & \multirow{6}{*}{Strobe \(24 \mathrm{Vac} / \mathrm{Vdc}\) (includes bulb)} & Green & XVBL8B3 \\
\hline & & Red & XVBL8B4 \\
\hline & & Amber & XVBL8B5 \\
\hline & & Blue & XVBL8B6 \\
\hline & & Clear & XVBL8B7 \\
\hline & & Yellow & XVBL8B8 \\
\hline & \multirow{6}{*}{Strobe 120 Vac (includes bulb)} & Green & XVBL8G3 \\
\hline & & Red & XVBL8G4 \\
\hline & & Amber & XVBL8G5 \\
\hline & & Blue & XVBL8G6 \\
\hline & & Clear & XVBL8G7 \\
\hline & & Yellow & XVBL8G8 \\
\hline
\end{tabular}

\footnotetext{
NOTE: There are no replacement lenses for strobes.
}

\footnotetext{
[1] For bulbs, see Table 19.364 XVB Accessories, page 19-117.
[2] Important: Discharge tube elements are not suitable for continuous-operation signaling due to temperature rise caused by the discharge tube.
[3] For 5 Joule units, specify XVBL6••, instead of XVBL8••
}
schneider-electric.us
XVB 70 mm Components
Table 19.359: XVB Lens Units for Steady Light
\begin{tabular}{l|l|l|c}
\multirow{3}{*}{ Description } & Light Source and \\
Voltage
\end{tabular}\(\quad\) Color \begin{tabular}{c} 
Catalog Number \\
\\
\end{tabular}

Table 19.360: XVB Lens Unit for Flashing Light
\begin{tabular}{|c|c|c|c|}
\hline Description & Light Source and Voltage & Color & Catalog Number \\
\hline \multirow{12}{*}{Illuminated lens unit} & \multirow[t]{6}{*}{Bulb (10 W max) not included 24 Vac 24-48 Vdc (must order bulb separately [4])} & Green & XVBC4B3 \\
\hline & & Red & XVBC4B4 \\
\hline & & Orange & XVBC4B5 \\
\hline & & Blue & XVBC4B6 \\
\hline & & Clear & XVBC4B7 \\
\hline & & Yellow & XVBC4B8 \\
\hline & \multirow{6}{*}{Bulb (10 W max) not included 48-230 Vac (must order bulb separately [4])} & Green & XVBC4M3 \\
\hline & & Red & XVBC4M4 \\
\hline & & Orange & XVBC4M5 \\
\hline & & Blue & XVBC4M6 \\
\hline & & Clear & XVBC4M7 \\
\hline & & Yellow & XVBC4M8 \\
\hline
\end{tabular}

NOTE: There are no replacement lenses units for the XVBC8•• strobes.
Table 19.361: XVB Lens Units with 10 Joule Strobe
\begin{tabular}{|c|c|c|c|}
\hline Description & Light Source and Voltage & Color & Catalog Number [5] \\
\hline \multirow{12}{*}{Lens unti with integral 10 Joule strobe} & \multirow{6}{*}{Strobe \(24 \mathrm{Vac} / \mathrm{Vdc}\) (includes bulb)} & Green & XVBC8B3 \\
\hline & & Red & XVBC8B4 \\
\hline & & Orange & XVBC8B5 \\
\hline & & Blue & XVBC8B6 \\
\hline & & Clear & XVBC8B7 \\
\hline & & Yellow & XVBC8B8 \\
\hline & \multirow{6}{*}{Strobe 120 Vac (includes bulb)} & Green & XVBC8G3 \\
\hline & & Red & XVBC8G4 \\
\hline & & Orange & XVBC8G5 \\
\hline & & Blue & XVBC8G6 \\
\hline & & Clear & XVBC8G7 \\
\hline & & Yellow & XVBC8G8 \\
\hline
\end{tabular}

Table 19.362: Audible Sounder Units
\begin{tabular}{l|l|c}
\hline Description & Supply Voltage & Catalog Number \\
\begin{tabular}{l} 
Sounder unit \\
90 dB at 1 m
\end{tabular} & \(12-48 \mathrm{Vac} / \mathrm{Vdc}\) & XVBC9B \\
\hline \begin{tabular}{l} 
Adjustable from \(75-90 \mathrm{~dB}\) \\
Continuous or intermittent modes
\end{tabular} & \(120-230 \mathrm{Vac}\) & XVBC9M \\
\hline
\end{tabular}

Table 19.363: Base Units + Cover
\begin{tabular}{l|c} 
Description & Catalog Number \\
\begin{tabular}{l} 
Base unit + cover \\
for direct or tube mounting, bottom or side cable entry \\
(includes gasket)
\end{tabular} & XVBC21 \\
\hline
\end{tabular}

\footnotetext{
[4] For bulbs, see Table 19.364 XVB Accessories, page 19-117. 5] For 5 Joule units, specify XVBC6••, instead of XVBC8••
}

XVB 70 mm Accessories
Table 19.364: XVB Accessories
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Description} & \multicolumn{2}{|c|}{Characteristics} & \multicolumn{2}{|c|}{\multirow[b]{2}{*}{Catalog Number}} \\
\hline & in. & mm & & \\
\hline \multirow[t]{3}{*}{Black tube with integral black plastic mounting base (includes gasket)} & 4.72 & 120 & XVBZ02 & XVBZ02A [6] \\
\hline & 15.75 & 400 & XVBZ03 & XVBZ03A [6] \\
\hline & 31.50 & 800 & XVBZ04 & XVBZ04A [6] \\
\hline \multirow{3}{*}{Support tube concealment cover} & 3.94 & 100 & \multicolumn{2}{|c|}{XVBC020} \\
\hline & 15.75 & 400 & \multicolumn{2}{|c|}{XVBC030} \\
\hline & 31.50 & 800 & \multicolumn{2}{|c|}{XVBC040} \\
\hline Wall mount bracket (metal) & \multicolumn{2}{|l|}{For direct mounting on base unit or with tulip XVBC11 + tube XVBC0•} & \multicolumn{2}{|c|}{XVBC12} \\
\hline \multirow{5}{*}{Incandescent bulbs bayonet type BA 15d, 10 Watts} & \multicolumn{2}{|l|}{\(12 \mathrm{Vac} / \mathrm{Vdc}\)} & \multicolumn{2}{|c|}{DL1BLJ} \\
\hline & \multicolumn{2}{|l|}{\(24 \mathrm{Vac} / \mathrm{Vdc}\)} & \multicolumn{2}{|c|}{DL1BLB} \\
\hline & \multicolumn{2}{|l|}{\(48 \mathrm{Vac} / \mathrm{Vdc}\)} & \multicolumn{2}{|c|}{DL1BLE} \\
\hline & \multicolumn{2}{|l|}{\(120 \mathrm{Vac} / \mathrm{Vdc}\)} & \multicolumn{2}{|c|}{DL1BLG} \\
\hline & \multicolumn{2}{|l|}{\(230 \mathrm{Vac} / \mathrm{Vdc}\)} & \multicolumn{2}{|c|}{DL1BLM} \\
\hline \multirow{5}{*}{Incandescent bulbs bayonet type BA 15d, 7 Watts} & \multicolumn{2}{|l|}{\(12 \mathrm{Vac} / \mathrm{Vdc}\)} & \multicolumn{2}{|c|}{DL1BEJ} \\
\hline & \multicolumn{2}{|l|}{\(24 \mathrm{Vac} / \mathrm{Vdc}\)} & \multicolumn{2}{|c|}{DL1BEB} \\
\hline & \multicolumn{2}{|l|}{\(48 \mathrm{Vac} / \mathrm{Vdc}\)} & \multicolumn{2}{|c|}{DL1BEE} \\
\hline & \multicolumn{2}{|l|}{\(120 \mathrm{Vac} / \mathrm{Vdc}\)} & \multicolumn{2}{|c|}{DL1BEG} \\
\hline & \multicolumn{2}{|l|}{\(230 \mathrm{Vac} / \mathrm{Vdc}\)} & \multicolumn{2}{|c|}{DL1BEM} \\
\hline \multirow{12}{*}{Steady-On LED bulbs bayonet type BA 15d (sold as single) [7]} & \multirow{6}{*}{\(24 \mathrm{Vac} / \mathrm{Vdc}\)} & White & \multicolumn{2}{|c|}{DL1BDB1} \\
\hline & & Green & \multicolumn{2}{|c|}{DL1BDB3} \\
\hline & & Red & \multicolumn{2}{|c|}{DL1BDB4} \\
\hline & & Blue & \multicolumn{2}{|c|}{DL1BDB6} \\
\hline & & Yellow & \multicolumn{2}{|c|}{DL1BDB8} \\
\hline & & Amber & \multicolumn{2}{|c|}{DL1BDB5} \\
\hline & \multirow{6}{*}{120 Vac} & White & \multicolumn{2}{|c|}{DL1BDG1} \\
\hline & & Green & \multicolumn{2}{|c|}{DL1BDG3} \\
\hline & & Red & \multicolumn{2}{|c|}{DL1BDG4} \\
\hline & & Blue & \multicolumn{2}{|c|}{DL1BDG6} \\
\hline & & Yellow & \multicolumn{2}{|c|}{DL1BDG8} \\
\hline & & Amber & \multicolumn{2}{|c|}{DL1BDG5} \\
\hline \multirow{12}{*}{Flashing LED bulbs} & \multirow{6}{*}{\(24 \mathrm{Vac} / \mathrm{Vdc}\)} & White & \multicolumn{2}{|c|}{DL1BKB1} \\
\hline & & Green & \multicolumn{2}{|c|}{DL1BKB3} \\
\hline & & Red & \multicolumn{2}{|c|}{DL1BKB4} \\
\hline & & Amber & \multicolumn{2}{|c|}{DL1BKB5} \\
\hline & & Blue & \multicolumn{2}{|c|}{DL1BKB6} \\
\hline & & Yellow & \multicolumn{2}{|c|}{DL1BKB8} \\
\hline & \multirow{6}{*}{120 Vac} & White & \multicolumn{2}{|c|}{DL1BKG1} \\
\hline & & Green & \multicolumn{2}{|c|}{DL1BKG3} \\
\hline & & Red & \multicolumn{2}{|c|}{DL1BKG4} \\
\hline & & Amber & \multicolumn{2}{|c|}{DL1BKG5} \\
\hline & & Blue & \multicolumn{2}{|c|}{DL1BKG6} \\
\hline & & Yellow & \multicolumn{2}{|c|}{DL1BKG8} \\
\hline Adapter for side entry through base unit & \multicolumn{2}{|l|}{With CM12 (p. 13.5) cable gland, for cable size of 0.4 to 0.55 in . ( 10 to 14 mm ) diameter} & \multicolumn{2}{|c|}{XVBC14} \\
\hline Conduit adapter & \multicolumn{2}{|l|}{1/2 in. NPT (for customer supplied tubing)} & \multicolumn{2}{|c|}{XVBC00} \\
\hline
\end{tabular}

Table 19.365: XVB Markers and Legend Holders
\begin{tabular}{l|l|c}
\hline Description & Characteristics & Catalog Number \\
Set of colored markers & 6 colors & XVBC22 \\
\hline Set of 5 legend holders & \begin{tabular}{l} 
Identification of stacked units on \\
base
\end{tabular} & XVBC23 \\
\hline
\end{tabular}

\section*{Wiring Diagrams, Base Units}

Screw terminals
Torque to \(4.4 \mathrm{in}-\mathrm{lb}(0.5 \mathrm{~N} \cdot \mathrm{~m})\)


XVBL
\(2 \times 16\) AWG ( \(1.5 \mathrm{~mm}^{2}\) ) \(1 \times 14\) AWG ( \(2.5 \mathrm{~mm}^{2}\) )


XVBC
chneider-electric.us

XVC Tower Lights and Accessories
Table 19.366: XVC4 Tower Lights - 40 mm diameter ( 1.5 inches)
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Description} & \multirow[t]{2}{*}{Light source (included)} & \multirow[b]{2}{*}{Voltage} & \multicolumn{2}{|r|}{Signaling colors [8]} & \multirow[t]{2}{*}{Catalog Number} \\
\hline & & & Steady & Flashing & \\
\hline \multicolumn{6}{|l|}{With support tube mounting} \\
\hline \multirow{10}{*}{Without buzzer} & \multirow{10}{*}{LED for steady light only} & \multirow{5}{*}{24 Vdc} & R & - & XVC4B1 \\
\hline & & & R, O & - & XVC4B2 \\
\hline & & & R, O, G & - & XVC4B3 \\
\hline & & & R, O, G, B & - & XVC4B4 \\
\hline & & & R, O, G, B, C & - & XVC4B5 \\
\hline & & \multirow{5}{*}{\[
\begin{aligned}
& 100-240 \\
& \text { Vac }
\end{aligned}
\]} & R & - & XVC4M1 \\
\hline & & & R, O & - & XVC4M2 \\
\hline & & & R, O, G & - & XVC4M3 \\
\hline & & & R, O, G, B & - & XVC4M4 \\
\hline & & & R, O, G, B, C & - & XVC4M5 \\
\hline \multirow{10}{*}{\begin{tabular}{l}
With buzzer \\
+ flashing light
\end{tabular}} & \multirow{10}{*}{LED for steady or flashing light [9]} & \multirow{5}{*}{24 Vdc} & R & R & XVC4B15S \\
\hline & & & R, O & R, O & XVC4B25S \\
\hline & & & R, O, G & R, O, G & XVC4B35S \\
\hline & & & R, O, G, B & R, O, G, B & XVC4B45S \\
\hline & & & R, O, G, B, C & R, O, G, B, C & XVC4B55S \\
\hline & & \multirow{5}{*}{\[
\begin{aligned}
& 100-240 \\
& \text { Vac }
\end{aligned}
\]} & R & R & XVC4M15S \\
\hline & & & R, O & R, O & XVC4M25S \\
\hline & & & R, O, G & R, O, G & XVC4M35S \\
\hline & & & R, O, G, B & R, O, G, B & XVC4M45S \\
\hline & & & R, O, G, B, C & R, O, G, B, C & XVC4M55S \\
\hline \multicolumn{6}{|l|}{For base mounting} \\
\hline \multirow{5}{*}{Without buzzer} & \multirow{5}{*}{LED for steady light only} & \multirow{5}{*}{24 Vdc} & R & - & XVC4B1K \\
\hline & & & R, O & - & XVC4B2K \\
\hline & & & R, O, G & - & XVC4B3K \\
\hline & & & R, O, G, B & - & XVC4B4K \\
\hline & & & R, O, G, B, C & - & XVC4B5K \\
\hline
\end{tabular}

Table 19.367: Accessories for XVC4
\begin{tabular}{l|l|l|c}
\hline Description & \begin{tabular}{l} 
Diameter \\
mm
\end{tabular} & \begin{tabular}{l} 
Minimum height to be added \\
mm
\end{tabular} & Catalog Number \\
\begin{tabular}{l} 
Die-cast metal mounting \\
base (for use with XVC4•• \\
and XVC4 \(\cdot \bullet 5 \mathrm{~S}\) with support \\
tube)
\end{tabular} & 90 & 32 & XVCZ111 \\
\hline \begin{tabular}{l} 
Plastic mounting base (for \\
use with XVC4, XVC4 \(\cdot \bullet\) and \\
XVC4 \(\cdot 5 \mathrm{~S}\) - customer must \\
discard the support tube)
\end{tabular} & 84 & 24.5 & XVCZ01 \\
\hline
\end{tabular}

Table 19.368: XVC Tower Lights - 100 mm diameter (4 inches)
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Description} & \multirow[t]{2}{*}{Light source (included)} & \multirow[t]{2}{*}{Voltage Vdc} & \multicolumn{2}{|r|}{Signaling colors [8]} & \multirow[t]{2}{*}{Catalog Number} \\
\hline & & & Steady & Flashing & \\
\hline \multicolumn{6}{|l|}{For base mounting} \\
\hline \multirow{10}{*}{Without buzzer With flashing light} & \multirow{10}{*}{LED for steady or flashing light [9]} & \multirow{5}{*}{24} & R & R & XVC1B1K \\
\hline & & & R, O & R, O & XVC1B2K \\
\hline & & & R, O, G & R, O, G & XVC1B3K \\
\hline & & & R, O, G, B & R, O, G, B & XVC1B4K \\
\hline & & & R, O, G, B, C & R, O, G, B, C & XVC1B5K \\
\hline & & \multirow{5}{*}{\[
\begin{aligned}
& 100-240 \\
& \text { Vac }
\end{aligned}
\]} & R & R & XVC1M1K \\
\hline & & & R, O & R, O & XVC1M2K \\
\hline & & & R, O, G & R, O, G & XVC1M3K \\
\hline & & & R, O, G, B & R, O, G, B & XVC1M4K \\
\hline & & & R, O, G, B, C & R, O, G, B, C & XVC1M5K \\
\hline \multirow{10}{*}{\begin{tabular}{l}
With buzzer \\
+ flashing light
\end{tabular}} & \multirow{10}{*}{LED for steady or flashing light 9 ]} & \multirow{5}{*}{24} & R & R & XVC1B1SK \\
\hline & & & R, O & R, O & XVC1B2SK \\
\hline & & & R, O, G & R, O, G & XVC1B3SK \\
\hline & & & R, O, G, B & R, O, G, B & XVC1B4SK \\
\hline & & & R, O, G, B, C & R, O, G, B, C & XVC1B5SK \\
\hline & & \multirow{5}{*}{\[
\begin{aligned}
& 100-240 \\
& \text { Vac }
\end{aligned}
\]} & R & R & XVC1M1SK \\
\hline & & & R, O & R, O & XVC1M2SK \\
\hline & & & R, O, G & R, O, G & XVC1M3SK \\
\hline & & & R, O, G, B & R, O, G, B & XVC1M4SK \\
\hline & & & R, O, G, B, C & R, O, G, B, C & XVC1M5SK \\
\hline
\end{tabular}

Table 19.369: Accessories for XVC1
\begin{tabular}{|l|l|l|c|}
\hline Description & Diameter & Height & Catalog Number \\
\hline Mount tube and base & mm & 140 & 300 \\
\hline L-shape mount bracket & - & - & XVCZ13 \\
\hline
\end{tabular}

XVC ZO2

Table 19.370: XVC6 Tower Lights, 60 mm diameter (2.375 inches)

\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Description} & \multirow[t]{2}{*}{Light source (included)} & \multirow[b]{2}{*}{Voltage} & \multicolumn{2}{|r|}{Signaling colors [10]} & \multirow[t]{2}{*}{\begin{tabular}{l}
Catalog \\
Number
\end{tabular}} \\
\hline & & & Steady & Flashing & \\
\hline \multicolumn{6}{|l|}{With support tube mounting} \\
\hline \multirow{10}{*}{Without buzzer} & \multirow{10}{*}{LED for steady light only} & \multirow{5}{*}{24 Vdc} & R & - & XVC6B1 \\
\hline & & & R, O & - & XVC6B2 \\
\hline & & & R, O, G & - & XVC6B3 \\
\hline & & & R, O, G, B & - & XVC6B4 \\
\hline & & & R, O, G, B, C & - & XVC6B5 \\
\hline & & \multirow{5}{*}{\[
\begin{aligned}
& 100-240 \\
& \text { Vac }
\end{aligned}
\]} & R & - & XVC6M1 \\
\hline & & & R, O & - & XVC6M2 \\
\hline & & & R, O, G & - & XVC6M3 \\
\hline & & & R, O, G, B & - & XVC6M4 \\
\hline & & & R, O, G, B, C & - & XVC6M5 \\
\hline \multirow{10}{*}{\begin{tabular}{l}
With buzzer \\
+ flashing light
\end{tabular}} & \multirow{10}{*}{LED for steady or flashing light [11]} & \multirow{5}{*}{24 Vdc} & R & R & XVC6B15S \\
\hline & & & R, O & R, O & XVC6B25S \\
\hline & & & R, O, G & R, O, G & XVC6B35S \\
\hline & & & R, O, G, B & R, O, G, B & XVC6B45S \\
\hline & & & R, O, G, B, C & R, O, G, B, C & XVC6B55S \\
\hline & & \multirow{5}{*}{\[
\begin{aligned}
& 100-240 \\
& \text { Vac }
\end{aligned}
\]} & R & R & XVC6M15S \\
\hline & & & R, O & R, O & XVC6M25S \\
\hline & & & R, O, G & R, O, G & XVC6M35S \\
\hline & & & R, O, G, B & R, O, G, B & XVC 6M45S \\
\hline & & & R, O, G, B, C & R, O, G, B, C & XVC6M55S \\
\hline \multicolumn{6}{|l|}{For base mounting} \\
\hline \multirow{10}{*}{Without buzzer} & \multirow{10}{*}{LED for steady light only} & \multirow{5}{*}{24 Vdc} & R & - & XVC6B1K \\
\hline & & & R, O & - & XVC6B2K \\
\hline & & & R, O, G & - & XVC6B3K \\
\hline & & & R, O, G, B & - & XVC6B4K \\
\hline & & & R, O, G, B, C & - & XVC6B5K \\
\hline & & \multirow{5}{*}{\[
\begin{aligned}
& 100-240 \\
& \text { Vac }
\end{aligned}
\]} & R & - & XVC6M1K \\
\hline & & & R, O & - & XVC6M2K \\
\hline & & & R, O, G & - & XVC6M3K \\
\hline & & & R, O, G, B & - & XVC6M4K \\
\hline & & & R, O, G, B, C & - & XVC6M5K \\
\hline \multirow{10}{*}{\begin{tabular}{l}
With buzzer \\
+ flashing light
\end{tabular}} & \multirow{10}{*}{LED for steady or flashing light [11]} & \multirow{5}{*}{24 Vdc} & R & R & XVC6B15SK \\
\hline & & & R, O & R, O & XVC6B25SK \\
\hline & & & R, O, G & R, O, G & XVC 6B35SK \\
\hline & & & R, O, G, B & R, O, G, B & XVC6B45SK \\
\hline & & & R, O, G, B, C & R, O, G, B, C & XVC6B55SK \\
\hline & & \multirow{5}{*}{\[
\begin{aligned}
& 100-240 \\
& \text { Vac }
\end{aligned}
\]} & R & R & XVC6M15SK \\
\hline & & & R, O & R, O & XVC6M25SK \\
\hline & & & R, O, G & R, O, G & XVC6M35SK \\
\hline & & & R, O, G, B & R, O, G, B & XVC6M45SK \\
\hline & & & R, O, G, B, C & R, O, G, B, C & XVC6M55SK \\
\hline
\end{tabular}

Table 19.371: Accessories for XVC6
\begin{tabular}{l|l|l|c} 
Description & \begin{tabular}{l} 
Diame- \\
ter \\
mm
\end{tabular} & \begin{tabular}{l} 
Minimum height to be \\
added \\
mm
\end{tabular} & Catalog Number \\
\begin{tabular}{l} 
Die-cast metal mounting base \\
for XVC6B• and XVC6B•5S with \\
support tube.
\end{tabular} & 100 & 30 & XVCZ02 \\
\hline \begin{tabular}{l} 
Stamped metal mounting base for \\
XVC6B•K and XVC6B•5SK
\end{tabular} & 84 & 21.6 & XVCZ12 \\
\hline
\end{tabular}
schneider-electric.us


XVU 60 mm Diameter Tower Lights Description
The XVU tower lights are customer assembled products comprising:
1. Top cover (Black or Silver)
2. Buzzer unit (Black or Silver) [12]
3. Illuminated units: [13]
a. LED illuminated units (Colors: Green, Red, Orange, Blue, White or Yellow)
b. Multi-color LED unit (Colors: Green, Red, Orange, Blue, White or Yellow. Patterns: steady, blinking, flashing, or rotating)
4. Sound unit [14]
5. Body extender (Black or Silver)
6. DC body unit (Black or Silver)
7. AC body unit (Black or Silver)
8. Flexible mounting module
9. Direct mounting plate (Black or Silver)
10. \(100 \mathrm{~mm} / 3.937 \mathrm{in}\). pole with fixing plate (Black or Silver)
11. Height adjustment pole from 210 to \(385 \mathrm{~mm} / 8.268\) to 15.157 in. [15]

\section*{Composition}
- XVU tower lights are customer assembled signaling units that are mounted on the body of the unit with a mounting accessory.
- Maximum of 5 illuminated units or 4 illuminated units with 1 audible unit can be assembled. The illuminated or audible unit [16], stack vertically.
- With the indicator marks on these units they can be easily assembled.
- Electrical connections between each unit are made automatically as they are mechanically assembled.
- The signaling units are identical in size and their positioning is unrestricted.

\section*{Mounting}

Fixed into support panel using direct mounting plate, \(100 \mathrm{~mm} / 3.937\) in. pole with mounting plate or adjustment pole.

\section*{Cabling}

By means of spring cage connection terminal block incorporated in mounting unit (Direct mounting plate, pole with plate, adjustment pole)

New.) XVU Illuminated LED Units: IP 65
Table 19.372: Illuminated LED Units: IP 65

\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Description} & \multirow[b]{2}{*}{Signaling Type} & \multicolumn{2}{|r|}{Characteristics} & \multirow[b]{2}{*}{Color} & \multirow[b]{2}{*}{Catalog Number} \\
\hline & & Voltage & Power & & \\
\hline \multirow{7}{*}{High brightness LED units} & \multirow{6}{*}{Steady} & 24 V & 2.5 W & Green & XVUC23 \\
\hline & & 24 V & 2.0 W & Red & XVUC24 \\
\hline & & 24 V & 2.0 W & Orange & XVUC25 \\
\hline & & 24 V & 2.5 W & Blue & XVUC26 \\
\hline & & 24 V & 2.5 W & White & XVUC27 \\
\hline & & 24 V & 2.5 W & Yellow & XVUC28 \\
\hline & Steady/blinking/ flashing/rotating & 24 V & 1.5 W & Multi-color (Green, Red, Orange, Blue, White and Yellow) & XVUC29 \\
\hline
\end{tabular}

New!) XVU Audible Units: IP 54
Table 19.373: Audible units: IP 54
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Description} & \multicolumn{2}{|l|}{Characteristics} & \multirow[b]{2}{*}{Color} & \multirow[b]{2}{*}{Catalog Number} \\
\hline & Voltage & Power & & \\
\hline \multirow[t]{2}{*}{\begin{tabular}{l}
Buzzer, adjustable 70-85 dB at \(1 \mathrm{~m} /\) 3.281 ft \\
(4 configurations of audible signal)
\end{tabular}} & \multirow[b]{2}{*}{24 V} & \multirow[b]{2}{*}{1.7 W} & Black & XVUC9S \\
\hline & & & Silver & XVUC9SQ \\
\hline Sound, adjustable 0-86 dB at \(1 \mathrm{~m} /\) 3.281 ft (4 channels) & 24 V & 1.7 W & Black & XVUC9V \\
\hline
\end{tabular}

XVU Body Units: IP 65


XVUC21BQ



XVUC21M

Table 19.374: Body units: IP 65
\begin{tabular}{l|c|c|c} 
Description & Voltage & Color & Catalog Number \\
\hline \multirow{3}{*}{\begin{tabular}{l} 
Body unit with top cover \\
[17]
\end{tabular}} & \(\sim /--24 \mathrm{~V}\) & Black & XVUC21B \\
\cline { 3 - 4 } & \multirow{3}{*}{\(\sim\)} & Silver & XVUC21BQ \\
\cline { 3 - 4 } & \(\sim 100\) to 240 V & Black & XVUC21M [18] \\
\cline { 3 - 4 } & & Black & XVUC21MP [19] \\
\cline { 3 - 4 } & & Silver & XVUC21MQP [19] \\
\hline
\end{tabular}
[17] Direct mounting plate XVUZ01• needed for direct mounting
[18] NPN type
[19] PNP type
[20] Two-foot mounting
[21] Four-foot mounting
[22] (6)Only for use with DC body unit.


Magelis HMIs [23]


XVGU3SHAV


XVGU3SWV

\section*{XVGU Multi-color USB Tower Lights}

The monolithic USB tower lights of the Harmony® XVGU range supports Magelis HMIs [23]. These tower lights with multi-color LEDs are unique and simple-to use as the states and patterns are directly set and modified in the HMI application.
The XVGU tower lights provide long distance indication of the operating status or sequences of a machine or installation, both visually by illuminated signaling units with \(360^{\circ}\) visibility, and audibly by a buzzer.
- The tower light comes with a pre-assembled USB cable for simple wiring and easy integration with the Magelis HMIs [23] [24]
- The tower light settings are selected from the Set screen of the HMI application at the time of integration.
- The multi-color LEDs on the three levels can be set to numerous color combinations (red, orange, green or blue) for sophisticated signaling.
- The 2-tone buzzer volume and alarm type (4 pre-recorded types) can be set easily.
- The tower lights allow to optimize your equipment: many customized configurations can be made from a sole product.
- The range involves \(\varnothing 60 \mathrm{~mm} / 2.36 \mathrm{in}\). products and is therefore ideal for use in many activity sectors (textiles, packaging, baggage handling). It is also ideal for use with metal tools, plastic extrusion machines and assembly lines. This range is only for indoor applications
NOTE: Signaling colors correspond to a combination of 4 colors (red, orange, green, and blue) which can be set easily in the HMI application.
Table 19.375: Pre-assembled tower lights \(=5 \mathrm{~V}, 60 \mathrm{~mm} / 2.36 \mathrm{in}\). Dia.
\begin{tabular}{|c|c|c|c|}
\hline Description & Light Source (included) & Compatible with terminals [25] & Catalog Number \\
\hline Tower light composed of \(100 \mathrm{~mm} / 3.94\) in. aluminium tube mounting, fixing plate and buzzer & Multi-color LED for various states and patterns (red, orange, green, or blue) & XBTGT (except GT1000
series)
XBTGC (with SoMachine
plattorm)
XBTGK
HMIGTO
HMIGXO
HMISCU & XVGU3SHAV \\
\hline Tower light composed of direct base mounting and buzzer & Multi-color LED for various states and patterns (red, orange, green, or blue) & \begin{tabular}{c} 
XBTGT (except GT1000 \\
series) \\
XBTGC (with SoMachine \\
plaftorm) \\
XBTGK \\
HMIGTO \\
HMIGXO \\
HMISCU \\
\hline
\end{tabular} & XVGU3SWV \\
\hline
\end{tabular}

Table 19.376: Accessories
\begin{tabular}{l|l|l|l}
\multicolumn{1}{c|}{ Description } & \multicolumn{1}{c|}{ Function } & Length & Catalog Number \\
\begin{tabular}{l} 
Connection cable \\
from PC to the terminal \\
(USB Type A/mini B)
\end{tabular} & \begin{tabular}{l} 
Cable for transferring \\
Screen data from a PC \\
(USB Type A) to a HMI \\
(USB Type mini B)
\end{tabular} & \(1.8 \mathrm{~m} / 5.91 \mathrm{ft}\) & BMXXCAUSBH018 \\
\hline
\end{tabular}


XVR 08•••


XVR 12•••



XVR Pre-Wired Beacons and Accessories
Table 19.377: XVR Pre-Wired Rotating Mirror Beacons
\begin{tabular}{|c|c|c|c|c|c|}
\hline Diameter (mm) & Sound Option & Enclosure Rating & Voltage & Color & \begin{tabular}{l}
Catalog \\
Number
\end{tabular} \\
\hline \multirow{8}{*}{\(\varnothing 84\)} & \multirow{8}{*}{Without buzzer} & \multirow{8}{*}{\[
\begin{aligned}
& \text { IP } 23 \\
& \text { (IP } 65 \text { with } \\
& \text { accessories) }
\end{aligned}
\]} & \multirow{4}{*}{\(12 \mathrm{Vac} / \mathrm{Vdc}\)} & Red & XVR08J04 \\
\hline & & & & Orange & XVR08J05 \\
\hline & & & & Green & XVR08J03 \\
\hline & & & & Blue & XVR08J06 \\
\hline & & & \multirow{4}{*}{\(24 \mathrm{Vac} / \mathrm{Vdc}\)} & Red & XVR08B04 \\
\hline & & & & Orange & XVR08B05 \\
\hline & & & & Green & XVR08B03 \\
\hline & & & & Blue & XVR08B06 \\
\hline \multirow{8}{*}{Ø 106} & \multirow{8}{*}{Without buzzer} & \multirow{8}{*}{\begin{tabular}{l}
IP 23 \\
(IP 55 with accessories)
\end{tabular}} & \multirow{4}{*}{\(12 \mathrm{Vac} / \mathrm{Vdc}\)} & Red & XVR10J04 \\
\hline & & & & Orange & XVR10J05 \\
\hline & & & & Green & XVR10J03 \\
\hline & & & & Blue & XVR10J06 \\
\hline & & & \multirow{4}{*}{\(24 \mathrm{Vac} / \mathrm{Vdc}\)} & Red & XVR10B04 \\
\hline & & & & Orange & XVR10B05 \\
\hline & & & & Green & XVR10B03 \\
\hline & & & & Blue & XVR10B06 \\
\hline \multirow{8}{*}{Ø 120} & \multirow{8}{*}{Without buzzer} & \multirow{8}{*}{IP 23} & \multirow{4}{*}{\(12 \mathrm{Vac} / \mathrm{Vdc}\)} & Red & XVR12J04 \\
\hline & & & & Orange & XVR12J05 \\
\hline & & & & Green & XVR12J03 \\
\hline & & & & Blue & XVR12J06 \\
\hline & & & \multirow{4}{*}{\(24 \mathrm{Vac} / \mathrm{Vdc}\)} & Red & XVR12B04 \\
\hline & & & & Orange & XVR12B05 \\
\hline & & & & Green & XVR12B03 \\
\hline & & & & Blue & XVR12B06 \\
\hline \multirow{8}{*}{\(\varnothing 120\)} & \multirow{8}{*}{With buzzer} & \multirow{8}{*}{IP 23} & \multirow{4}{*}{\(12 \mathrm{Vac} / \mathrm{Vdc}\)} & Red & XVR12J04S \\
\hline & & & & Orange & XVR12J05S \\
\hline & & & & Green & XVR12J03S \\
\hline & & & & Blue & XVR12J06S \\
\hline & & & \multirow{4}{*}{\(24 \mathrm{Vac} / \mathrm{Vdc}\)} & Red & XVR12B04S \\
\hline & & & & Orange & XVR12B05S \\
\hline & & & & Green & XVR12B03S \\
\hline & & & & Blue & XVR12B06S \\
\hline \multirow{4}{*}{\(\varnothing 130\)} & \multirow{4}{*}{Without buzzer} & \multirow{4}{*}{IP 23 Resistant to vibration} & \multirow[b]{2}{*}{12 Vdc} & Red & XVR13J04 \\
\hline & & & & Orange & XVR13J05 \\
\hline & & & \multirow[t]{2}{*}{24 Vdc} & Red & XVR13B04 \\
\hline & & & & Orange & XVR13B05 \\
\hline
\end{tabular}

Table 19.378: XVR Accessories
\begin{tabular}{l|l|l|c}
\hline \multirow{3}{*}{ Description } & Diameter (mm) & Height (mm) & Catalog \\
Number \\
\multirow{3}{*}{ Reflecting prism } & 84 & - & XVRZR1 \\
\cline { 2 - 4 } & 106 & - & XVRZR2 \\
\cline { 2 - 4 } & \(120 / 130\) & - & XVRZR3 \\
\hline Rubber base \\
to increase the IP degree of protection & 84 & - & XVRZ081 \\
\hline Mount tube and base & 106 & - & XVRZ082 \\
\hline L-shape mounting bracket & 106,120 and & 300 & XVCZ13 \\
\hline
\end{tabular}


XVC Z13

xvS72BM
XVS Sirens and Electronic Alarms
Table 19.379: XVS Sirens and Electronic Alarms
\begin{tabular}{l|l|l|c}
\hline \begin{tabular}{l} 
Description \\
\begin{tabular}{l} 
Multisound siren \\
\(105 \mathrm{~dB}, 43\) tones
\end{tabular} \\
\hline \multirow{3}{*}{\begin{tabular}{l} 
Electronic alarms \\
90 dB, 16 tones \\
Panel Mount DIN 72
\end{tabular}}
\end{tabular} & \(12 / 24 \mathrm{Vdc}\) & Color & Catalog Number \\
& \multirow{3}{*}{} & White & XVS14BMW \\
\hline
\end{tabular}

Table 19.380: XVS Dimensions (mm) XVS 14BMW


XVS 72BM••

Harmony eXLhoist Operator Control Stations
The Harmony \({ }^{\circledR}\) eXLhoist range of wireless remote control systems provide complete and innovative crane operator control solutions to: improve the machine and crane operator efficiency, enhance safety for people and equipment, and to reduce installation and maintenance downtime.
The remote control system XARS is a combination of remote control device (or transmitter: XART) and base station (or receiver: XARB), which transmits commands and information from the operator to the machine and vice versa by a wireless transmission means.
The XARS system offers movement in 3 directions (for example: hoist, bridge, and trolley) at 2 speed levels (low and high) for each movement.
The 2 modes available in the system are:
- Single mode: the remote control device controls one base station
- Tandem mode: the remote control device controls 2 base stations simultaneously.
Table 19.381: Remote Control Devices
\begin{tabular}{l|c|c|c}
\multirow{2}{*}{ Description } & \multicolumn{2}{|c|}{ Characteristics } & \multirow{2}{*}{ Catalog Numbers } \\
\cline { 2 - 3 } With LEDs & Motion push buttons & Auxiliary push buttons & 2 \\
\hline With display & 6 & 2 & ZART8L \\
\hline With display & 6 & 2 & ZART8D \\
\hline
\end{tabular}
Table 19.382: Base Station
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Description} & \multicolumn{2}{|c|}{Characteristics} & \multirow[b]{2}{*}{Power Supply (V)} & \multirow[b]{2}{*}{Catalog Number} \\
\hline & Outputs & Inputs & & \\
\hline Wired connection cable gland & 12 relays +2 safety relays & - & ~/--24-240 & ZARB12W \\
\hline Industrial plug connection & 12 relays +2 safety relays & - & ~/-- 24-48 & ZARB12H \\
\hline Wired connection cable gland & 18 relays + 2 safety relays & 18 digital (12 limiters
+6 alarms) & ~/--24-240 & ZARB18W \\
\hline Industrial plug connection & 18 relays +2 safety relays & 18 digital (12 limiters +6 alarms) & ~/-- 24-48 & ZARB18H \\
\hline
\end{tabular}
Table 19.383: Wireless Remote Control

\begin{tabular}{l|c|c|c}
\multirow{2}{*}{ Description } & \multicolumn{2}{|c|}{ Characteristics } & \multirow{2}{*}{ Catalog Number }
\end{tabular}


XARSK8L12W

Table 19.385: Accessories
\begin{tabular}{l|l|c}
\hline Description & Characteristics & Catalog Number \\
\hline Charger for remote device & \(\sim 100-240 \mathrm{~V}\) power supply & ZARC01 \\
\hline Shoulder belt for remote device & \(2 \mathrm{~m} / 6.56 \mathrm{ft}\) length & ZARC02 \\
\hline External antenna for Base station \([1]\) & \begin{tabular}{l} 
with \(2 \mathrm{~m} / 6.56 \mathrm{ft} \mathrm{cable} \mathrm{and} \mathrm{bracket}\) \\
included
\end{tabular} & ZARC03 \\
\hline Holder for remote device & \begin{tabular}{l}
\(104 \times 239 \mathrm{~mm} / 4.09\) \\
x 9.41 in.
\end{tabular} & ZARC04 \\
\hline Connector plug female & \begin{tabular}{l} 
with cable \\
\(1.5 \mathrm{~m} / 4.92 \mathrm{ft}\)
\end{tabular} & ZARC05 \\
\hline Cable gland kit with wire grommets & \(1 \times \mathrm{M} 25+1 \times \mathrm{M} 20\) & ZARC06 \\
\hline Kit for adhesive labels for remote device & in Black and White & ZARC07 \\
\hline \begin{tabular}{l} 
Kit for adhesive labels for remote device \\
and crane equipment
\end{tabular} & Multi color & ZARC08 \\
\hline Mounting kit & \begin{tabular}{l} 
Silent block + \\
magnet and metal \\
support
\end{tabular} & ZARC09 \\
\hline Connector plug (female) & \begin{tabular}{l} 
with cable \\
\(3 \mathrm{~m} / 9.84 \mathrm{ft}\)
\end{tabular} & ZARC12 \\
\hline Connector plug (female) & \begin{tabular}{l} 
with cable \\
\(5 \mathrm{~m} / 16.40 \mathrm{ft}\)
\end{tabular} & ZARC18 \\
\hline Connector cable & USB to RJ45 & TCSMCNAM3M002P \\
\hline
\end{tabular}

Table 19.384: Kits
\begin{tabular}{|c|c|c|}
\hline Description & Components & Catalog Numbers \\
\hline \multirow{6}{*}{Starting kit comprising of Remote control system + accessories + USB/RJ45 cable + Configuration software} & ZART8L + ZARB12W + ZARC01 + ZARC02 + TCSMCNAM3M002P & XARSK8L12W \\
\hline & \begin{tabular}{l}
ZART8L + ZARB12H + \\
ZARC01 + ZARC02 + \\
TCSMCNAM3M002P
\end{tabular} & XARSK8L12H \\
\hline & \[
\begin{aligned}
& \hline \text { ZART8D + ZARB18W + } \\
& \text { ZARC01 + ZARC02 + } \\
& \text { TCSMCNAM3M002P } \\
& \hline
\end{aligned}
\] & XARSK8D18W \\
\hline & \begin{tabular}{l}
ZART8D + ZARB18H + \\
ZARC01 + ZARC02 + \\
TCSMCNAM3M002P
\end{tabular} & XARSK8D18H \\
\hline & \begin{tabular}{l}
ZART12D + ZARB18W + \\
ZARC01 + ZARC02 + \\
TCSMCNAM3M002P
\end{tabular} & XARSK12D18W \\
\hline & \begin{tabular}{l}
ZART12D + ZARB18H + \\
ZARC01 + ZARC02 + \\
TCSMCNAM3M002P
\end{tabular} & XARSK12D18H \\
\hline
\end{tabular}


Type BW Pendant Stations
Pendant Stations
Refer to Catalog 9001CT1001

Type BW Pendant Stations and Accessories
This pre-assembled, two-button station now comes complete with internal and external strain relief. Oversized finger grips on the rear of the enclosure make it easy to grip and operate.
- Well suited for standard hoist applications
- Push button legend inserts
- Field-installable mushroom button
- Full cover gasket, to exclude harmful contaminants

Table 19.386: BW90 and BW100 Pendant Stations - with cord connector and strain relief
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Description} & & \multirow[b]{2}{*}{Legend Insert Markings} & \multirow[b]{2}{*}{Mechanical Interlock} & \multicolumn{3}{|c|}{Enclosure Color} & \multirow[b]{2}{*}{Contact Symbol} & \multicolumn{2}{|l|}{Replacement Interior [2]} \\
\hline & & & & Yellow & Black & Red & & 9001 Type & Contact Symbol \\
\hline 5 & & Up-Down & Yes & BW92Y & BW92B & BW92R & 146 & BOC368 & 146 \\
\hline 3 & & Forward-Reverse & Yes & BW93Y & BW93B & BW93R & 146 & BOC368 & 146 \\
\hline & & On-Off [3] & Yes & BW94Y & BW94B & BW94R & 10 & BOC358 & 147 \\
\hline & & Start-Stop & No & BW95Y & BW95B & BW95R & 145 & BOC359 & 25 \\
\hline & & Start-Stop [3] & Yes & BW96Y & BW96B & BW96R & 10 & BOC358 & 147 \\
\hline 핀 & & On-Off [3] & No & BW97Y & BW97B & BW97R & 146 & BOC359 & 25 \\
\hline & & Up-Down & Yes & BW98Y & BW98B & - & 100 & - & - \\
\hline & & without Inserts & Yes & BW90YU & BW90BU & BW90RU & 147 & BOC366 & 25 \\
\hline & & without Inserts & No & BW91YU & BW91BU & BW91RU & 25 & BOC359 & 25 \\
\hline & & without Inserts [3] & Yes & BW94YU & BW94BU & BW94RU & 147 & BOC358 & 147 \\
\hline & & without Inserts & Yes & BW100YU & BW100BU & BW100RU & 150 & BOC367 & 150 \\
\hline BW90 / BW100 & Two Speed & Up-Down & Yes & BW102Y & BW102B & BW102R & 150 & BOC367 & 150 \\
\hline
\end{tabular}

Table 19.387: Hanger Brackets


Table 19.388: Strain Relief Replacement
\begin{tabular}{l|l|l} 
& Description & Type \\
\hline & & \\
\hline & & \\
\hline & & \\
\hline
\end{tabular}

Table 19.389: Interchangeable Legend Inserts for Type BW Pendant Stations[4]
\begin{tabular}{l|c}
\hline Marking & Type \\
Start & B259 \\
\hline Stop & B260 \\
\hline Forward & B255 \\
\hline Reverse & B256 \\
\hline Open & B263 \\
\hline Close & B264 \\
\hline Raise & B261 \\
\hline Lower & B262 \\
\hline Up & B253 \\
\hline Down & B254 \\
\hline On & B257 \\
\hline Off & B258 \\
\hline Blank - black & B251 \\
\hline Blank -red & B252 \\
\hline
\end{tabular}

Table 19.390: Replacement Enclosures
\begin{tabular}{l|l|l}
\hline \multirow{2}{*}{ Description } & Color & Type \\
Box \& Cover \\
with 4 screws
\end{tabular}

Table 19.391: Electrical Contact Ratings [5]
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow{4}{*}{Volts} & \multicolumn{6}{|c|}{AC-NEMA B600} & \multicolumn{3}{|c|}{DC-NEMA P600} \\
\hline & \multicolumn{5}{|c|}{Inductive 35\% Power Factor} & Resistive
75\% Power Factor & \multirow{3}{*}{Volts} & \multicolumn{2}{|r|}{Inductive and Resistive} \\
\hline & \multicolumn{2}{|c|}{Make} & \multicolumn{2}{|c|}{Break} & \multirow[t]{2}{*}{Continuous Carrying Amperes} & \multirow[t]{2}{*}{Make, Break and Continuous Carrying Amperes} & & \multirow[t]{2}{*}{Make and Break Amperes} & \multirow[t]{2}{*}{Continuous Carrying Amperes} \\
\hline & A & VA & A & VA & & & & & \\
\hline 120 & 30.5 & 3600 & 3.75 & 360 & 5 & 5 & & & \\
\hline 240 & 15 & 3600 & 1.5 & 360 & 5 & 5 & 120
240 & 1.1
0.55 & 5
5 \\
\hline 480
600 & 7.5
6 & 3600
3600 & \({ }^{.75}\) & 360
360 & 5
5 & & 600 & \({ }_{0} 0.2\) & 5 \\
\hline
\end{tabular}

Contact Symbols (Type BW Pendant Staions)

[2] Includes gasket
[3] Maintained Contact
[4] Order must specify a quantity of 10 or multiples of 10.
[5] OSHA Regulation, Section 1910.70, Overhead and Gantry Cranes, limits the voltage of pendant push buttons to 150 Vac or 300 Vdc.
 210 |o 22
\(-1\)

Figure 1


Figure 3


Figure 4
\(N / C+N / C+N / C\) with positive opening operation


Figure 5

\footnotetext{
[6] These units are available with factory installed E-stops. Add a " 3 " to the end of the catalog number for standard E-stop or add a " 4 " for a trigger action E-stop.
[7] These units are available with a factory installed E-stop. Use XACD22 \(\cdots\) for a standard E-stop or XACD24••• for a trigger action E-stop.
[8] Standard enclosures include internal mounting plate, cable sleeve for 8 to 26 mm , internal cable clamp, suspension ring and cable tie.
[9] For ordering information on custom built XACA pendants, visit our website at www.Schneider-Electric.us.
[10] Cannot be used with XACA03 pendant.
}

\section*{Enclosures, Contact Blocks}

Refer to Catalog 9001CT1001
XAC Operators and Accessories
Table 19.396: Operators [11]
\begin{tabular}{l|l|c}
\hline Description & Color & Catalog Number \\
\multirow{4}{*}{ Booted push button } & White & XACA9411 \\
\cline { 3 - 3 } & Black & XACA9412 \\
\hline & Green & XACA9413 \\
\hline & Red & XACA9414 \\
\hline & Yellow & XACA9415 \\
\hline & Blue & XACA9416 \\
\cline { 3 - 3 } & Brown & XACA9419 \\
\hline
\end{tabular}

Table 19.397: Mushroom Operators
\begin{tabular}{l|l|l|c}
\hline Description & Mushroom Size & Color & Catalog Number \\
\hline \begin{tabular}{l} 
Mushroom head, push to maintain/turn-to- \\
release \\
(trigger action)[12]
\end{tabular} & 30 mm & Red & ZA2BS834 \\
\cline { 2 - 4 } \begin{tabular}{l} 
Mushroom head, push to maintain/key turn-to- \\
release \\
(trigger action)[12]
\end{tabular} & 40 mm & Red & ZA2BS844 \\
\hline
\end{tabular}

Table 19.398: Selector Switches and Wobble Stick
\begin{tabular}{l|l|c}
\hline \begin{tabular}{l} 
Description
\end{tabular} & Color & Catalog Number \\
\hline Selector switch/2 position—maintained/13] & Black & ZA2BD2 \\
\hline \begin{tabular}{l} 
Selector switch/3 position-maintained/13]
\end{tabular} & Black & ZA2BD3 \\
\hline \begin{tabular}{l} 
Selector switch/2 position-maintained key operated-key removal from LT \\
or RT position[13]
\end{tabular} & NA & ZA2BG4 \\
\hline \begin{tabular}{l} 
Selector switch/3 position-maintained key operated-key removal from LT \\
or RT position[13]
\end{tabular} & NA & ZA2BG5 \\
\hline Wobble stick (bottom mounting recommended) & Black & ZA2BB2 \\
\hline
\end{tabular}

Table 19.399: Pilot Light Components
\begin{tabular}{l|l|c|c|}
\hline Description & Color & Catalog Number \\
\hline Direct supply base/without lamp (for 6 to 120 V applications) (AC/DC) [14] & - & ZB2BV006 \\
\hline
\end{tabular}

Table 19.400: Enclosure Accessories
\begin{tabular}{l|c} 
Description & Catalog Number \\
Blank hole plug & ZB2SZ3 \\
\hline Mechanical interlock (momentary). For use with XAC booted operators only & XACA009 \\
\hline Screw adapter for self-supporting cable & XACB961 \\
\hline Low suspension ring for single row station & XACA971 \\
\hline Protective guard for bottom mounted mushroom head & XACA982 \\
\hline Protective guard for bottom mounted selector switch or key switch & XACA983 \\
\hline
\end{tabular}

Table 19.401: Lamps, BA9s Base
\begin{tabular}{l|l|l|c}
\hline \multirow{4}{*}{\begin{tabular}{l} 
Replacement bulbs \\
Resper \\
Type BA9s) \\
Incandescent
\end{tabular}} & Voltage & Watts & Catalog Number \\
\cline { 2 - 4 } & \(6 \mathrm{Vac} / \mathrm{Vdc}\) & 1.2 & DL1CB006 \\
\cline { 2 - 4 } & \(12 \mathrm{Vac} / \mathrm{dc}\) & 2.0 & DL1CE012 \\
\cline { 2 - 4 } & \(24 \mathrm{Vac} / \mathrm{Vdc}\) & 2.0 & DL1CE024 \\
\cline { 2 - 4 } & \(48 \mathrm{Vac} / \mathrm{Vdc}\) & 2.4 & DL1CE048 \\
\cline { 2 - 4 } & \(130 \mathrm{Vac} / \mathrm{Vdc}\) & 2.6 & DL1CE130 \\
\hline
\end{tabular}

Table 19.402: LED, BA9s Base
\begin{tabular}{|c|c|c|c|}
\hline Type & Color & Voltage & Catalog Number \\
\hline \multirow{11}{*}{LED, BA9s base for Direct Supply blocks} & Green & \(6 \mathrm{Vac} / \mathrm{Vdc}\) & DL1CJUS0063 \\
\hline & Red & \(6 \mathrm{Vac} / \mathrm{Vdc}\) & DL1CJUS0064 \\
\hline & Amber & \(6 \mathrm{Vac} / \mathrm{Vdc}\) & DL1CJUS0065 \\
\hline & Green & \(24 \mathrm{Vac} / \mathrm{Vdc}\) & DL1CJUS0243 \\
\hline & Red & \(24 \mathrm{Vac} / \mathrm{Vdc}\) & DL1CJUS0244 \\
\hline & Amber & \(24 \mathrm{Vac} / \mathrm{Vdc}\) & DL1CJUS0245 \\
\hline & White & \(24 \mathrm{Vac} / \mathrm{Vdc}\) & DL1CJUS0241 \\
\hline & Blue & \(24 \mathrm{Vac} / \mathrm{Vdc}\) & DL1CJUS0246 \\
\hline & Green & \(120 \mathrm{Vac} / \mathrm{Vdc}\) & DL1CJUS1203 \\
\hline & Red & \(120 \mathrm{Vac} / \mathrm{Vdc}\) & DL1CJUS1204 \\
\hline & Amber & \(120 \mathrm{Vac} / \mathrm{Vdc}\) & DL1CJUS1205 \\
\hline
\end{tabular}
[11] Booted push buttons are for cover mounting only. All other operators can be mounted on cover or bottom.
[12] Trigger action mushroom heads are tamper proof in that a change of contact state is not possible by teasing or floating the operator.
[13] Not for use with XENG contact blocks.
[14] see lable 19.401 Lamps, BA9s Base, page 19-12y and Iable 19.402 LED, BA9s Base, page 1y-12y.

Refer to Catalog 9001CT1001

Table 19.403: PVC Standard Legend Plates \(30 \times 40 \mathrm{~mm}\)
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline Text[15] & & Catalog Number & Text[15] & Catalog Number & Text[15] & Catalog Number \\
\hline \multicolumn{2}{|l|}{Bridge Forward} & ZB2BY2343 & Left & ZB2BY2310 & Stop & ZB2BY2304 \\
\hline \multicolumn{2}{|l|}{Bridge Reverse} & ZB2BY2344 & Low & ZB2BY2336 & Stop Start & ZB2BY2366 \\
\hline \multicolumn{2}{|l|}{Close} & ZB2BY2314 & Lower & ZB2BY2337 & Trolley Right & ZB2BY2345 \\
\hline \multicolumn{2}{|l|}{Down} & ZB2BY2308 & Man Auto & ZB2BY2372 & Trolley Left & ZB2BY2346 \\
\hline \multicolumn{2}{|l|}{Emergency Stop} & ZB2BY2330 & Off & ZB2BY2312 & Up & ZB2BY2307 \\
\hline \multicolumn{2}{|l|}{Fast} & ZB2BY2328 & On & ZB2BY2311 & Up Down & ZB2BY2370 \\
\hline \multicolumn{2}{|l|}{Forward} & ZB2BY2305 & Off On & ZB2BY2367 & Up-O-Down & ZB2BY2389 \\
\hline \multicolumn{2}{|l|}{For Rev} & ZB2BY2371 & Open & ZB2BY2313 & North & 6516002379 \\
\hline \multicolumn{2}{|l|}{For-O-Rev} & ZB2BY2384 & Open Close & ZB2BY2376 & South & 6516002380 \\
\hline \multicolumn{2}{|l|}{Hand Off Auto} & ZB2BY2387 & Open-O-Close & ZB2BY2388 & East & 6516002381 \\
\hline \multicolumn{2}{|l|}{High} & ZB2BY2338 & Out & ZB2BY2339 & West & 6516002382 \\
\hline \multicolumn{2}{|l|}{High Low} & ZB2BY2369 & Power On & ZB2BY2326 & & \\
\hline \multicolumn{2}{|l|}{Hoist Down} & ZB2BY2342 & Raise & ZB2BY2335 & & \\
\hline \multicolumn{2}{|l|}{Hoist Up} & ZB2BY2341 & Reset[15] & ZB2BY2323 & & \\
\hline \multicolumn{2}{|l|}{In} & ZB2BY2503 & Reverse & ZB2BY2306 & & \\
\hline \multicolumn{2}{|l|}{Inch} & ZB2BY2321 & Right & ZB2BY2309 & & \\
\hline \multicolumn{2}{|l|}{Jog For} & ZB2BY2381 & Run & ZB2BY2334 & & \\
\hline \multicolumn{2}{|l|}{Jog Rev} & ZB2BY2380 & Slow & ZB2BY2327 & & \\
\hline \multicolumn{2}{|l|}{Jog Run} & ZB2BY2365 & Start & ZB2BY2303 & & \\
\hline Type & \multicolumn{2}{|l|}{Description} & \multicolumn{2}{|l|}{Background Color} & & Catalog Number \\
\hline \multirow[t]{2}{*}{PVC blank legend} & \multicolumn{2}{|l|}{Blank} & \multicolumn{2}{|l|}{Black or red background-30 mm x 40 mm} & & ZB2BY2101 \\
\hline & \multicolumn{2}{|l|}{Blank} & \multicolumn{2}{|l|}{Yellow or white background-30 mm x 40 mm} & & ZB2BY4101 \\
\hline PVC custom engraved & \multicolumn{2}{|l|}{Special engraving[16] Special engraving[16]} & \multicolumn{2}{|l|}{Black background, white letters- \(30 \mathrm{~mm} \times 40 \mathrm{~mm}\) White background, black letters- \(30 \mathrm{~mm} \times 40 \mathrm{~mm}\)} & & \[
\begin{aligned}
& \hline \text { ZB2BY2002 } \\
& \text { ZB2BY4001 }
\end{aligned}
\] \\
\hline
\end{tabular}

\footnotetext{
[15] All nameplates are black with white lettering except "Stop", "Emergency Stop" and "Reset" which are red with white lettering. For black "Reset" change final digit of catalog number to 2.
[16] Please specify lettering when ordering. Two lines with 11 characters (including spaces) maximum on each plate.
}


Mechanical Interlock (XACA009)


\section*{Type XACA Worksheet}

Use this worksheet to assist in component selection. Custom orders for XACA pendant stations must be placed through the Product Selector in Quote to Cash. There is a \(10 \%\) charge for assembly.

\section*{XACA Order Guide Instructions}

Custom built pendant stations
1. Determine the number of operators needed, then choose an enclosure with a corresponding number of holes.
2. Select the type of operator, contact block, and appropriate nameplate for each function required.
3. Check for special functions that may be required. These items could include mechanical interlocks, adapters for self-supporting cable, lower support rings, protective guards, etc.
\begin{tabular}{|c|c|c|c|c|}
\hline & Catalog number of enclosure & XACA & \[
\square \quad \square
\] & \(\square\) \\
\hline Functions (optional) & Mechanical interlock (draw a vertical line between the 2 units to be interlocked \({ }^{4}\) ) & Legends & Contact blocks and pilot light bodies & \begin{tabular}{l}
Push button \\
Pilot light or \\
Blanking plug
\end{tabular} \\
\hline & 1 & & & \\
\hline & 2 & & & \\
\hline & 3 & & & \\
\hline & 4 & & & \\
\hline & 5 & & & \\
\hline & 6 & & & \\
\hline & 7 & & & \\
\hline & 8 & & & \\
\hline & 9 & & & \\
\hline & 10 & & & \\
\hline & 11 & & & \\
\hline & 12 & & & \\
\hline - Mechanic & CA009 & & Number of XACA009 & ired \\
\hline
\end{tabular}

Unit mounted in base of station (facing downwards)
\begin{tabular}{l|l|l|l|l}
\hline & 13 & & & \\
\hline
\end{tabular}

\section*{Attachments}
\begin{tabular}{l|l|l} 
Position & Type & Catalog No. \\
\hline 14 & Adapters for self-supporting cable type BBAP (available only with cable sleeve Ø8-26 mm) & XACB961 \\
\hline 15 & Lower support ring & XACA971 \\
\hline 16 & Protective guard for base mounted selector switch or 40 mm emergency-stop push button & XACA982 \\
\hline 17 & Protective guard for key switch & XACA983 \\
\hline
\end{tabular}


Pendant Station Application and Ordering Information
This line of pendant stations consists of polymeric enclosures (2 through 10 units), push button units ( 1 through 5 speed) and laminated legend plates. All enclosures have an extra single unit space near the top which permits the installation of a toggle switch, a Type SK operator or pilot light, or a warning label. All enclosures come with a stainless steel hanger bracket and internal strain relief post. Enclosures are yellow and have a threaded opening in the top.

Table 19.404: Enclosure Catalog Numbers
\begin{tabular}{|l|l|l|l}
\multirow{2}{*}{ Number of Buttons } & Conduit Entrance Size & \begin{tabular}{c} 
Enclosure Only \\
{\([17]\)}
\end{tabular} & \begin{tabular}{c} 
Enclosure for Assembled \\
Station \\
{\([18]\)}
\end{tabular} \\
\cline { 3 - 4 } & & Catalog Number & Catalog Number \\
2 & \(3 / 4 "-14 \mathrm{NPT}\) & SKYP2 & SKYP20 \\
4 & \(3 / 4 "-14 \mathrm{NPT}\) & SKYP4 & SKYP40 \\
6 & \(1-111 / 2 \mathrm{NPT}\) & SKYP6 & SKYP60 \\
8 & \(11 / 4 "-111 / 2 \mathrm{NPT}\) & SKYP8 & SKYP80 \\
10 & \(11 / 4 "-11 / 2 \mathrm{NPT}\) & SKYP10 & SKYP100 \\
\hline
\end{tabular}

Table 19.405: Push Button Units
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{4}{*}{} & Number of Buttons per Unit & Description & Contact Symbol & Catalog Number [19] \\
\hline & 2 & Single Speed Momentary Interlocked & 7 & SKRU1[20] \\
\hline & 2 & Single Speed Momentary NonInterlocked & 5 & SKRU10[20] \\
\hline & 2 & \begin{tabular}{l}
Single Speed - \\
Maintained Interlock
\end{tabular} & 10 & SKRU11[20] \\
\hline \multirow[t]{4}{*}{} & 2 & Two Speed -Momentary Interlocked & 87 & SKRU2[21] \\
\hline & 2 & Three Speed--
Momentary Interlocked & 88 & SKRU3[21] \\
\hline & 2 & Four Speed Momentary Interlocked & 89 & SKRU4[21] \\
\hline & 2 & Five Speed -Momentary Interlocked & 90 & SKRU5[21] \\
\hline
\end{tabular}

Table 19.406: Legend Plate Catalog Numbers


Figure 19.1: Multispeed Contact Symbols (X = Contact Closed)

Table 19.407: Closing Plate Catalog Number


Figure 19.2: Single Speed Contact Symbols
[17] Class 9001 SK push-to-test pilot lights and remote test pilot lights will not fit in these enclosures.
[18] Assembled pendant stations consist of an enclosure, operators and legend plates. All custom orders must include the pendant key sheet. See Type XACA Worksheet, page \(19-131\).
[19] Types SKRU 1, 10 and 11 use Type KA contact blocks. Types SKRU 2 thru 5 are factory enclosed contact blocks.
[20] Boot part number is 9001 KU 1 .
[21] Boot part number is 9001 KU 37
[22] 19 characters each side max.
[23] Can be supplied by Square D as Class 9001 Type SKSTS1- includes boot for NEMA Type 4X.
[24] Includes legend plate, gasket and ground plate to be used with toggle switch.
[25] See 9001 SK, page 19-82through page 19-89
[26] Tri-laminated legend plate having a yellow or red background on a black core.

\section*{Type SKYP Worksheet}

回
Control Products

Use this worksheet to assist in component selection. SKYP Custom Pendant orders must be placed through the Product Selector in Quote to Cash. There is a \(10 \%\) charge for assembly.
Class \(9001 \quad\) type SKYP -
1. Operator or Closing Plate. Example - SKRU1
2. Legend Plate Type Number Example - SKN201
3. Legend Plate Marking - Used Only if Special Marking is Required Example:

Line 2-SKN299
Line 3 - A.) Hoist
B.) FWD
C.) REV

ENCLOSURES - NEMA 4X, 13
\begin{tabular}{|c|c|c|}
\hline \multirow[t]{2}{*}{Size} & \multirow[t]{2}{*}{Conduit Entrance Size} & Enclosure for Assembled Station 1 \\
\hline & & Catalog Number \\
\hline 2 Button & 3/4" -14 NPT & SKYP20 \\
\hline 4 Button & 3/4" -14 NPT & SKYP40 \\
\hline 6 Button & 1"-14 NPT & SKYP60 \\
\hline 8 Button & \(1^{1 / 4} 4^{\prime \prime}-11^{1 / 2}\) & SKYP80 \\
\hline 10 Button & \(1 \frac{1}{4}{ }^{\prime \prime}-11^{\frac{1}{2}}\) & SKYP100 \\
\hline
\end{tabular}
- Assembled pendant stations consist of an enclosure, operators, and legend plates.

PUSH BUTTON UNITS - NEMA / UL 4X, 13
\begin{tabular}{c|c|c|c}
\begin{tabular}{c} 
Number of \\
Buttons per \\
Unit
\end{tabular} & \multicolumn{1}{|c}{ Description } & \begin{tabular}{c} 
Contact \\
Symbol
\end{tabular} & Type \\
2 & \begin{tabular}{l} 
Single Speed - Momentary \\
Interlocked
\end{tabular} & 7 & SKRU1 \\
\hline 2 & \begin{tabular}{l} 
Single Speed - Momentary \\
Non-Interlocked
\end{tabular} & 5 & SKRU10 \\
\hline 2 & \begin{tabular}{l} 
Single Speed - Maintained \\
Interlocked
\end{tabular} & 10 & SKRU11 \\
\hline 2 & \begin{tabular}{l} 
Two Speed - Momentary \\
Interlocked
\end{tabular} & 87 & SKRU2 \\
\hline 2 & \begin{tabular}{l} 
Three Speed - Momentary \\
Interlocked
\end{tabular} & 88 & SKRU3 \\
\hline 2 & \begin{tabular}{l} 
Four Speed - Momentary \\
Interlocked
\end{tabular} & 89 & SKRU4 \\
\hline 2 & \begin{tabular}{l} 
Five Speed - Momentary \\
Interlocked
\end{tabular} & 90 & SKRU5 \\
\hline
\end{tabular}

\section*{CLOSING PLATE}
\begin{tabular}{c}
\hline Type \\
\hline SK52 \\
\hline
\end{tabular}

The price of the total station consists of the price of each individual component plus a \(10 \%\) charge for assembly.

TYPE NUMBER KEY
When operator and legend plate use 2 adjacent holes - specify same in both locations. Example:

\begin{tabular}{|c|c|}
\hline \multicolumn{2}{|r|}{SKRU1} \\
\hline 2 & SKN201 \\
\hline \multicolumn{2}{|l|}{3} \\
\hline \multicolumn{2}{|l|}{1 SKRU1} \\
\hline 2 & SKN201 \\
\hline & \\
\hline
\end{tabular}


LEGEND PLATES - NEMA / UL 4X, 13
\begin{tabular}{|c|c|c|}
\hline Where Used & Marking & Catalog Number \\
\hline For SKRU1 through SKRU11 & \begin{tabular}{l}
Blank-Blank \\
Hoist: Up-Down \\
Trolley: East-West \\
Trolley: Fwd.-Rev. \\
Trolley: North-South \\
Bridge: Fwd.-Rev. \\
Bridge: East-West \\
Bridge: North-South \\
Start-Stop \\
Reset-Stop \\
Specify Marking
\end{tabular} & \begin{tabular}{l}
SKN200(4) \\
SKN201 \\
SKN202 \\
SKN203 \\
SKN204 \\
SKN205 \\
SKN206 \\
SKN207 \\
SKN208 \\
SKN209 \\
SKN299(4)
\end{tabular} \\
\hline With Toggle Switch (1) in Top Space of Enclosure & \begin{tabular}{l}
Blank \\
Off-On \\
On-Off \\
Specify Marking
\end{tabular} & \begin{tabular}{l}
SKN500 (2) \\
SKN544 (2) \\
SKN545 (2) \\
SKN599 (2)
\end{tabular} \\
\hline With Type SK Operator or Pilot Light in Top Space of Enclosure & \begin{tabular}{l}
Blank \\
On \\
Off \\
Emerg. Stop \\
Run \\
Power On \\
Off-On \\
Specify Marking \\
Specify Marking \\
(Red Background)
\end{tabular} & \begin{tabular}{l}
SKN100 (3) \\
SKN103 \\
SKN104 \\
SKN105 \\
SKN124 \\
SKN138 \\
SKN144 \\
SKN199 (3) \\
SKN199R (3)
\end{tabular} \\
\hline \multicolumn{3}{|l|}{\begin{tabular}{l}
(1) Available as 9001 SKSTS1 \\
(2) Includes legend plate, gasket and ground plate to be used with toggle switch. \\
(3) Tri-laminated legend plate having a yellow or red background on a black core. \\
(4) 19 characters each side.
\end{tabular}} \\
\hline A Class 9001 & pe SK Push-To-Test lights will not fit in & t lights and Re e enclosures. \\
\hline
\end{tabular}


Space for toggle switch (1), a Type SK operator or pilot light or a warning la bel. Use SKN-5 or SKN-1 legend plates.


\section*{Heavy Duty Industrial Foot Switches-Oiltight, Watertight, Dusttight and Driptight Enclosure, NEMA 2, 4 and 13}


Type AW Foot Switch with Top Pedal Shield and Side Shields


AW117
Type AW with Oversized Pedal
Shield
Side Shields and Safety Door


AW132
Type AW with Oversized Pedal Shield and Side Shields


AW1
Type AW Foot Switch without Pedal Shield


Type AW Fully Shielded Foot Switch with Oversized Pedal Shield, Side Shields and Safety Door. The Safety Door is interlocked with the pedal to prevent operation due to shock or vibration. It prevents accidental pedal operation by requiring a simple but intentional motion to lift the door before inserting the foot.
AW124
Operating Temperature:
-30 to \(+60^{\circ} \mathrm{C}\left(-22\right.\) to \(\left.+140^{\circ} \mathrm{F}\right)\)

\section*{A DANGER}

\section*{HAZARDOUS APPLICATIONS}

Do not use foot switches on machines without point-of-operation protection.
Failure to follow these instructions will result in death, serious injury, or equipment damage.

\section*{Foot Switch Selection}

Foot switches are used to control many industrial processes, while leaving the operator's hands free to perform other functions. The type or model of foot switch suitable for each application will vary depending on factors such as the control function required, degree of protection required, production methods, unusual conditions, government regulations, etc. In some applications more than one foot switch may be required, as when two or more persons are operating a machine. In these cases, safe practice and regulations require that the foot switches be wired in series making it necessary that each operator's foot switch be actuated before the machine will cycle.
Only the user can be aware of all the conditions and factors present during setup, operation and maintenance of the machine; therefore, only the user can determine which foot switch(es) can be properly used. When selecting a foot switch for a particular application, the user should refer to the applicable ANSI standards and OSHA regulations. The National Safety Council's Accident Prevention Manual also provides much useful information.

In some applications, such as power presses, additional operator protection such as point-of-operation guarding must be provided when a foot switch is used as an actuator. This is necessary since the operator's hands and other parts of the body are free to enter the pinch point area and serious injury can occur. The shielding provided on foot switches cannot protect an operator from injury. For this reason the foot switch cannot be substituted for or take the place of point-of-operation protection.
A Trilingual Danger Sign regarding the need for point-of-operation protection is supplied with each foot switch. The sign incorporates three languages: English, Spanish and French. Additional copies of the sign are available by contacting your Square D sales office.

Table 19.408: Foot Switch Catalog Numbers [1]
\begin{tabular}{|c|c|c|c|c|c|}
\hline Description & Features & Fully ShieIded with Oversized Pedal Shield, Side Shields and Safety Door & With Oversized Pedal Shield and Side Shields & With Pedal Shield and Side Shields & \begin{tabular}{l}
UNSHIELDED \\
(See Warning note[2])
\end{tabular} \\
\hline & & Catalog Number & Catalog Number & Catalog Number & Catalog Number \\
\hline Single Pole[3] Double Throw & Spring Return With Mechanical Latch & AW117
- & AW132
- & \[
\begin{aligned}
& \text { AW2 } \\
& \text { AW7 } \\
& \hline
\end{aligned}
\] & AW1
- \\
\hline Two Pole [3] Double Throw & Spring Return With Mechanical Latch & AW124 [4]
- & AW133
- & AW14 AW15 & AW13
- \\
\hline Two Stage [3] (One Pole Each Stage) Table 1 & Spring Return With Mechanical Latch in 1st Stage With Mechanical Latch in 2nd Stage & \begin{tabular}{c} 
AW119 \\
- \\
\hline
\end{tabular} & \begin{tabular}{c} 
AW134 \\
- \\
\hline
\end{tabular} & AW6 AW9 AW10 & \begin{tabular}{c} 
AW5 \\
- \\
\hline
\end{tabular} \\
\hline Four Stage [3] (One Pole Each Stage) Table 2 & Spring Return & AW123 & - & AW22 & AW21 \\
\hline Single Pole Single Throw & Maintained Contact—Push On/Push Off & - & - & AW12 & AW11 \\
\hline Replacement Cover Assembly & - & AC5 & AC7 & AC8 [5] & AC1 \\
\hline
\end{tabular}

File: LR25490
Class: 184 N 13.1U

For replacement parts for Class 9002 Type AW: See instruction bulletin 65013-010-31.
Also see Table 19.410 Contact Symbol-Two Stage, page 19-135 and Table 19.411 Contact Symbol—Four Stage
page 19-135.

\footnotetext{
[1] When ordering, add prefix " 9002 " to the catalog number.
 Man" controls, signal functions (lights, bells, etc.).
 separated sets of contact elements allowing use on circuits of opposite polarity. Each set that contains two double break contact elements ( \(1 \mathrm{~N} . \mathrm{O}\). and 1 N . C.) must be used on circuits of same polarity.
[4] 2 N.O. and 2 N.C. isolated, direct acting contacts.
 only.
}

\section*{Approximate Dimensions}


Table 19.409: Maximum Current Ratings For Control Circuit Contacts
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multirow{4}{*}{Type} & \multirow{4}{*}{Volts} & \multicolumn{3}{|c|}{AC Amperes} & \multirow{4}{*}{Volts} & \multicolumn{3}{|c|}{DC Amperes} \\
\hline & & \multicolumn{2}{|l|}{Inductive 35\% Power Factor} & \multirow[t]{3}{*}{\begin{tabular}{l}
Resistive \\
75\% Power \\
Factor \\
Make, \\
Break \\
and \\
Continuous
\end{tabular}} & & \multicolumn{3}{|c|}{Inductive and Resistive} \\
\hline & & \multirow[b]{2}{*}{Make} & \multirow[b]{2}{*}{Break} & & & \multicolumn{2}{|l|}{Make and Break} & \multirow[b]{2}{*}{Continuous} \\
\hline & & & & & & \begin{tabular}{l}
Single \\
Throw
\end{tabular} & \begin{tabular}{l}
Double \\
Throw
\end{tabular} & \\
\hline AW1 through AW10, AW117, AW119, AW132 & \[
\begin{aligned}
& 120 \\
& 240 \\
& 480 \\
& 600
\end{aligned}
\] & \[
\begin{aligned}
& 40 \\
& 20 \\
& 10 \\
& 8
\end{aligned}
\] & \[
\begin{aligned}
& 15 \\
& 10 \\
& 6 \\
& 5 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 15 \\
& 10 \\
& 6 \\
& 5
\end{aligned}
\] & \[
\begin{aligned}
& 125 \\
& 250 \\
& 600
\end{aligned}
\] & \[
\begin{aligned}
& 2.0 \\
& 0.5 \\
& 0.1
\end{aligned}
\] & \[
\begin{aligned}
& 0.5 \\
& 0.2 \\
& 0.02
\end{aligned}
\] & \[
\begin{aligned}
& 15 \\
& 15 \\
& 15
\end{aligned}
\] \\
\hline AW13, AW14, AW15, AW133 & \[
\begin{aligned}
& 120 \\
& 240 \\
& 480 \\
& 600 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 30 \\
& 15 \\
& 7.5 \\
& 6
\end{aligned}
\] & \[
\begin{aligned}
& \hline 3 \\
& 1.5 \\
& 0.75 \\
& 0.6 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \hline 3 \\
& 1.5 \\
& 0.75 \\
& 0.6 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 125 \\
& 250 \\
& 600 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 1.0 \\
& 0.3 \\
& 0.1 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 0.2 \\
& 0.1 \\
& -
\end{aligned}
\] & \[
\begin{aligned}
& 10 \\
& 10 \\
& 10 \\
& \hline
\end{aligned}
\] \\
\hline AW11, AW12 & \[
\begin{array}{r}
115 \\
230 \\
\hline
\end{array}
\] & \[
\begin{aligned}
& 36 \\
& 18 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 6 \\
& 3 \\
& \hline
\end{aligned}
\] & - & \[
\begin{array}{|l}
\hline 125 \\
250 \\
\hline
\end{array}
\] & \[
\begin{aligned}
& 2.2 \\
& 1.1 \\
& \hline
\end{aligned}
\] & - & - \\
\hline AW21, AW22, AW123 & \[
\begin{aligned}
& 120 \\
& 240 \\
& 480 \\
& 600 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 15.0 \\
& 7.5 \\
& 3.75 \\
& 3.0 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 1.5 \\
& 0.75 \\
& 0.375 \\
& 0.3 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 10 \\
& 10 \\
& 10 \\
& 10 \\
& \hline
\end{aligned}
\] & - & 二 & - & - \\
\hline AW124 & \[
\begin{aligned}
& \hline 120 \\
& 240 \\
& 480 \\
& 600 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 60 \\
& 30 \\
& 15 \\
& 12 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 6 \\
& 3 \\
& 1.5 \\
& 1.2 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 10 \\
& 10 \\
& 10 \\
& 10 \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& 120 \\
& 240 \\
& 600
\end{aligned}
\] & \[
\begin{aligned}
& 1.1 \\
& 0.55 \\
& 0.2
\end{aligned}
\] & - & \[
\begin{aligned}
& 10 \\
& 10 \\
& 10
\end{aligned}
\] \\
\hline
\end{tabular}

NOTE: Double throw switches are rated 250 Vdc maximum.
Table 19.410: Contact Symbol—Two Stage
\begin{tabular}{l|l|l|l|l}
\hline \multicolumn{2}{c}{ Snap Switch } & \multicolumn{3}{c}{ Pedal } \\
\hline \multirow{2}{*}{ Unit } & Circuit & Up & Half Down & Full Down \\
\multirow{2}{*}{1} & A1 & 0 & 1 & 1 \\
\cline { 2 - 5 } & B1 & 1 & 0 & 0 \\
\hline \multirow{2}{*}{2} & A2 & 1 & 1 & 0 \\
\cline { 2 - 5 } & B2 & 0 & 0 & 1 \\
\hline \multirow{2}{*}{ NOTE: 0 = Open 1 \(=\) Closed } &
\end{tabular}

Table 19.411: Contact Symbol—Four Stage
\begin{tabular}{l|l|l|l|l|l|l}
\multicolumn{3}{c}{ Snap Switch } & \multicolumn{4}{c}{ Pedal Position } \\
\hline \multirow{3}{*}{ Unit } & Circuit & \multicolumn{5}{c}{\(\rightarrow\) Down } \\
\multirow{4}{*}{1} & 1A1 & 0 & 0 & 1 & 1 & 1 \\
\cline { 2 - 7 } & 1B1 & 1 & 1 & 0 & 0 & 0 \\
\hline & 2A1 & 0 & 1 & 1 & 1 & 1 \\
\cline { 2 - 7 } & 2B1 & 1 & 0 & 0 & 0 & 0 \\
\hline \multirow{3}{*}{2} & 1A2 & 1 & 1 & 1 & 0 & 0 \\
\cline { 2 - 7 } & 1B2 & 0 & 0 & 0 & 1 & 1 \\
\cline { 2 - 7 } & 2A2 & 1 & 1 & 1 & 1 & 0 \\
\cline { 2 - 7 } & 2B2 & 0 & 0 & 0 & 0 & 1 \\
\hline
\end{tabular}

Type K Rotary Cam Switches
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{Applications} & \multicolumn{6}{|l|}{Used in building control panels and consoles, Type K cam switches allow control of processes and utilities in industry and buildings, and direct control for simple machines.} \\
\hline & &  & & &  & & \\
\hline \multirow{7}{*}{Functions} & Off-On/On-Off switches & 1 to 6-pole & \multicolumn{5}{|l|}{1 to 6-pole} \\
\hline & Stepping switches & 2 to 12-position, 1 to 4-pole & \multicolumn{5}{|l|}{-} \\
\hline & Changeover switches & 1 to 5-pole & \multicolumn{5}{|l|}{1 to 4-pole} \\
\hline & Measurement switches & Voltmeter and ammeter & \multicolumn{5}{|l|}{-} \\
\hline & Reversing switches & 2 and 3-pole & \multicolumn{5}{|l|}{2 and 3-pole} \\
\hline & Reversing star-delta switches & Star-delta & \multicolumn{5}{|l|}{Star-delta} \\
\hline & Pole change switches & 2 and 3-speed & \multicolumn{5}{|l|}{2-speed} \\
\hline \multicolumn{2}{|l|}{Conventional rated thermal current (Ith)} & 20 A & 32 A & 50 A & 63 A & 115 A & 150 A \\
\hline \multicolumn{2}{|l|}{\multirow{5}{*}{Electrical operating characteristics}} & 690 V & 690 V & 690 V & 690 V & 690 V & 690 V \\
\hline & & AC-3-3-phase & AC-3-3-phase & AC-3-3-phase & AC-3-3-phase & AC-3-3-phase & AC-3-3-phase \\
\hline & & \(230 \mathrm{~V}-2.2 \mathrm{~kW}-8.3 \mathrm{~A}\) & \(230 \mathrm{~V}-5.5 \mathrm{~kW}\) & \(230 \mathrm{~V}-7.5 \mathrm{~kW}\) & 230 V - kW & \(230 \mathrm{~V}-5 \mathrm{~kW}\) & \(230 \mathrm{~V}-22 \mathrm{~kW}\) \\
\hline & & AC-15 & AC-15 & AC-15 & - & - & - \\
\hline & & \(230 \mathrm{~V}-4 \mathrm{~A}\) & \(230 \mathrm{~V}-14 \mathrm{~A}\) & \(230 \mathrm{~V}-6 \mathrm{~A}\) & & & \\
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Front plate degree of protection}} & IP 40 & \multicolumn{5}{|l|}{\multirow[t]{2}{*}{IP 40}} \\
\hline & & IP 65 (with seal) & & & & & \\
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Product Composition}} & Complete switches and custom & \multicolumn{5}{|l|}{\multirow[t]{2}{*}{Complete switches}} \\
\hline & & Adaptable sub-assemblies & & & & & \\
\hline \multicolumn{2}{|l|}{Compatibility} & \(\varnothing 22\) control and signalling units & \multicolumn{5}{|l|}{-} \\
\hline \multirow[t]{3}{*}{Mounting} & \multirow[t]{2}{*}{Front Mounting} & Multi-fixing & \multicolumn{3}{|l|}{\multirow[t]{2}{*}{By 4 holes on 48 mm centers}} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{By 4 holes on 68 mm centers}} \\
\hline & & Single \(\varnothing 22\) hole & & & & & \\
\hline & Rear Mounting & Screw fixing, 4 holes on 36 mm centers & \multicolumn{3}{|l|}{Screw fixing, 4 holes on 48 mm centers} & \multicolumn{2}{|l|}{Screw fixing, 4 holes on 68 mm centers} \\
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Front plate dimensions (mm)}} & \(45 \times 45\) & \multicolumn{3}{|l|}{\multirow[t]{2}{*}{\(64 \times 64\)}} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{\(88 \times 88\)}} \\
\hline & & \(60 \times 60\) (adaptable sub-assemblies) & & & & & \\
\hline \multicolumn{2}{|l|}{\multirow{5}{*}{Operating heads}} & Black and red standard and long handles & \multicolumn{5}{|l|}{\multirow{5}{*}{Black standard handle Metallic legend, black marking}} \\
\hline & & Key operator & & & & & \\
\hline & & Metallic head & & & & & \\
\hline & & Metallic legend with black marking or & & & & & \\
\hline & & black legend with white marking & & & & & \\
\hline \multicolumn{2}{|l|}{\multirow[b]{2}{*}{Approvals}} & UL-CSA & \multicolumn{5}{|l|}{\multirow[t]{2}{*}{CULus
EN/IEC 60947-3}} \\
\hline & & EN/IEC 60947-3 & & & & & \\
\hline \multicolumn{2}{|l|}{Type} & Type K2 & \multicolumn{5}{|l|}{Type K30-K150} \\
\hline \multicolumn{2}{|l|}{Cam switch model [1]} & Class 9003, K2 & K30 & K50 & K63 & K115 & K150 \\
\hline
\end{tabular}

\section*{Instructions for 9003K2 Key Sheet}

The Key Sheet for ordering a 9003K2 cam switch is on page 19-137, and an example of a completed key sheet is on page 19-138. The instructions below are for filling out the key sheet on page 19-137.
1. Select the box for \(\mathrm{K} 2(20 \mathrm{~A})\).
2. Identify the Product quantity in the box provided.
3. Verify front mounting by selecting the box: Front Mounting.
4. If ordering a base/contact block only, select 22 mm plastic or 22 mm metal mounting. Then complete the following:
a. (3) Switching Angle (positions)
b. (4) Contact scheme and jumpers (pre-wired)
5. If ordering a complete switch (base/contact block, head, legend), check the box. Then complete the following:
a. (1) Operating head preference
b. (2) Legend preference
c. (3) Switching angle (positions)
d. (4) Contact scheme and jumpers (pre-wired)
6. Operating head preference (1) (identify the operating head preferred)
7. Legend preference (2) (identify the legend preference)
8. Switching angle (positions) (3) and special legend marking
a. Identify whether the switch need is \(30^{\circ}\) or \(60^{\circ}\), or \(45^{\circ}\) or \(90^{\circ}\) switching angle.
b. Fill in the legend markings desired at the positions indicated. Zero degrees is always straight up.
9. The rotation of the operator stops clockwise at the top or \(0^{\circ}\) position. If full rotation through \(360^{\circ}\) is desired, the Full rotation through \(360^{\circ}\) box must be checked.
10. Contact scheme and jumpers (pre-wired) (4)
a. If jumpers are desired to be pre-wired, draw a horizontal line between the terminals to be jumpered per the example on page 19-138.
b. Refer to the Legend at the bottom of page 19-137 for contact sequences, i.e.: X indicates contact closure. See page 19-138 for examples of filling in this portion of the key sheet.
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Application and Ordering Information

9003K2 Cam Switch Order Form


9003K2 (20 A): \(\square\)
\begin{tabular}{|c|c|c|c|c|}
\hline Product quantity: & & Front mounting & & \\
\hline \multicolumn{5}{|l|}{Base/contact block only (no operating head):} \\
\hline \multicolumn{5}{|c|}{\(\varnothing 22\) plastic: \(\square \quad \varnothing 22\) meta} \\
\hline \multicolumn{5}{|c|}{Complete: (3) (4)} \\
\hline
\end{tabular}

Complete switch (base/contact block, head, legend) Complete: (1) (2) (3) (4)
For 22 mm plastic mounting:
\begin{tabular}{|c|c|}
\hline (1) Operating head reference: & 9003K \\
\hline (2) Legend reference: & 9003KZ...... \\
\hline \multicolumn{2}{|l|}{or for mounting with metal base:} \\
\hline (1) Operating head reference: & KAX Z.......... \\
\hline (2) Legend reference: & XBCY \\
\hline
\end{tabular}

Special legend marking:
As per diagram on left:
As per form:


Accessories / comments: \(\qquad\)
(4) Contact scheme and jumpers (pre-wired):


9003K2 Cam Switch Order Form—Example

(4) Contact scheme and jumpers (pre-wired):



\footnotetext{
Check the box to confirm selection
}

Fill in with text```

