Harmony® XVR rotating beacons

Signaling units Ø 84 - 130
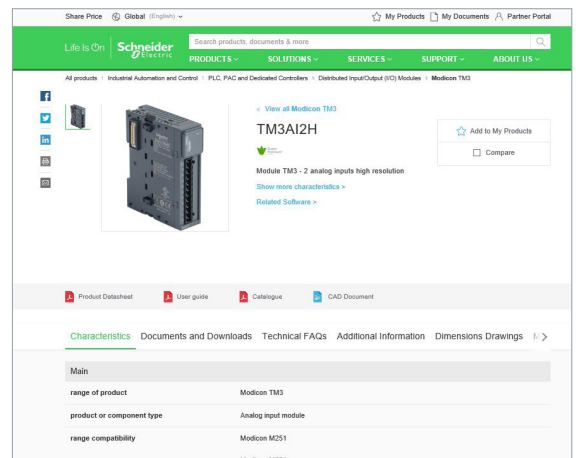
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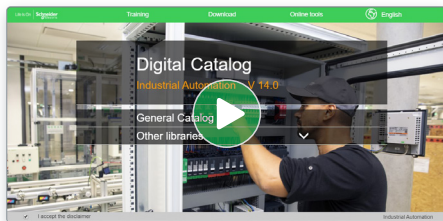
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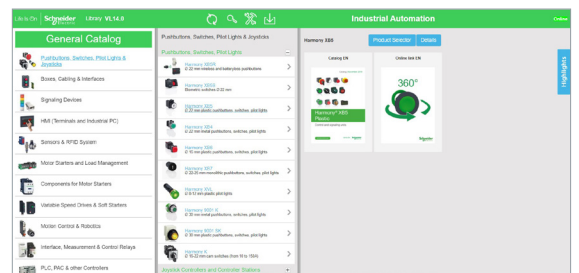
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General contents

Signaling units
Rotating beacons
Harmony XVR
Ø 84, Ø 106, Ø 120, Ø 100, and Ø 130
(equipped with Super Bright LED)

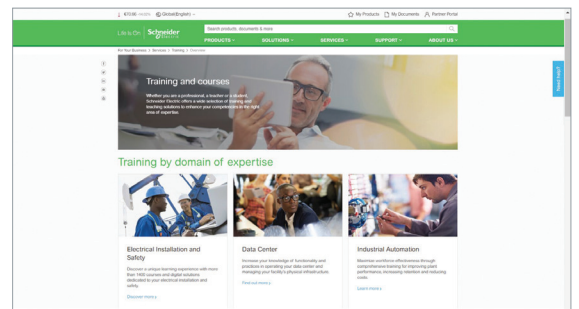**Revolutionary technology for Harmony® XVR motor-less rotating/flashing beacons**

The Harmony XVR range of rotating beacons is commonly used in a wide range of applications. They are visual and audible signaling units that offer a combination of innovative features, high performance, and simplicity.

> Available in various diameters to suit different industrial applications
> (Ø 84/*3.31 in.*, Ø 106/*4.17 in.*, Ø 120/*4.72 in.*, Ø 130/*5.12 in.*, and Ø 100/*3.94 in.*)
> Easy installation due to pre-cabled and pre-assembled products
> With or without buzzer, available in four colors: red, orange, green, and blue

| Ø 84 | Ø 106 | Ø 120 | Ø 130 | Ø 100 |

Ø 100 motor-less rotating/flashing beacons

Better performance
> Longer life and free maintenance thanks to motor-less LED technology
> Excellent LED flashing mode with different frequencies to provide more possibilities
> High degree of protection and vibration resistance to increase reliability
> Wide voltage input to meet different applications

Addition of motor-less beacons to the Harmony XVR range

Flexibility and simplicity
> 10 lighting modes in one switch makes it easy to use, simple to select, and helps reduce the levels of stock required
> Flexiblity of straight and side wiring
> Simple and easy installation without use of any tools
> External buzzer volume adjuster

Easy light mode selector with use of simple tool

Settings

10 lighting mode selector in Ø 100 beacon

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Signaling units
Rotating beacons
Harmony XVR
Ø 84, Ø 106, Ø 120, Ø 100, and Ø 130
(equipped with Super Bright LED)

Motor-less rotating/flashing beacons *(continued)*

Aesthetic design for industrial applications
> Available in 4 colors: green, red, orange, and blue
> Unique aesthetic design distinguishes them from other beacons
> Faceted lens extends the lighting area giving a unique appearance

2014 Red Dot industrial design award winner for unique aesthetic design

Robustness
> Integrated rubber base to improve the IP level
> Up to IP 65 degree of protection depending on buzzer option, and high vibration resistance of 7.1G
> Enclosure rating Type4/4x/13 indoor for upright position

Designed in conformity with requirements of the European RoHS Directive 2011/65/EU

➡ **Industrial applications**

Ideally suited for automotive, machine tools, material handling, and electronic equipment applications.

Factory applications

Construction vehicles

Public areas

👁 + 👂 = User-friendly

Harmony type XV	Monolithic tower lights	
Type of products	Pre-assembled and pre-cabled USB tower lights	Pre-assembled/pre-cabled tower lights Variable composition tower lights for customer assembly of up to 4 units
Diameter	Ø 60 mm/*2.362 in.*	Ø 60 mm/*2.362 in.*
Degree of protection conforming to IEC 60529	IP 54	IP 53 and IP 42 (base mounting) IP 23 (direct aluminium tube mounting, aluminium tube mounting and "L" bracket) IP 53 and IP 42 (aluminium tube mounting and fixing plate) IP 40 (aluminium tube mounting and foldable bracket)
Type of signalling Steady	Yes	Yes
Flashing	Yes	–
High flashing	–	–
Sound	With buzzer (volume control and alarm type can be set with HMI)	With buzzer
Light sources Incandescent bulb	–	–
LED bulb	–	–
Integral LED	Yes	Yes
"Flash" discharge tube	–	–
Halogen bulb	–	–
Colors of illuminated units	Mutli-color LEDs (many possible combinations can be set with HMI) □ Red □ Orange □ Green □ Blue	□ Red □ Green □ Amber □ Blue
Connection	USB power cable: - 300 mm/*11.81 in.* for tube mounting - 400 mm/*15.75 in.* for direct mounting	Flying leads, length 500 to 560 mm/*19.68 to 22.05 in.* for tube mounting according to model. Length 900 mm/*35.43 in.* for base mounting.
Support panel drilling or cut-out	Mounting on support tube with fixing plate: 4 x Ø 6 mm/*0.236 in.* Direct mounting on horizontal support: 3 x Ø 5 mm/*0.197 in.*	Base mounting: 3 x Ø5 mm/*0.197 in.* Direct aluminium tube mounting: Ø20/*0.787 in.* Aluminium tube mounting and "L" bracket: 2 x Ø9/*0.354 in.* Aluminium tube mounting and fixing plate: 4 x Ø6/*0.236 in.* Aluminium tube mounting and foldable bracket: 4 x Ø6/*0.236 in.*
Type references	**XVGU**	**XVG**

Monolithic tower lights		
Pre-assembled and pre-cabled tower lights	Pre-assembled and pre-cabled tower lights	Pre-assembled and pre-cabled tower lights
Ø 40 mm/*1.575 in.*	Ø 60 mm/*2.36 in.*	Ø 100 mm/*3.937 in.*
IP 54 (flat surface installation) IP 23 (vertical surface installation)	IP 54 (flat surface installation) IP 23 (vertical surface installation)	IP 54 (flat surface installation)
Yes	Yes	Yes
Yes	Yes	Yes
–	–	–
With buzzer	With buzzer	With siren or buzzer
–	–	–
–	–	–
Yes	Yes	Yes
–	–	–
–	–	–
□ Red □ Orange □ Green □ Blue □ Clear	□ Red □ Orange □ Green □ Blue □ Clear	□ Red □ Orange □ Green □ Blue □ Clear
Flying leads, length 450 mm/*17.71 in.* to 900 mm/*35.43 in.* according to model	Flying leads, length 450 mm/*17.71 in.* to 850 mm/*33.46 in.* according to model	Flying leads, length 500 mm/*19.68 in.*
Mounting on support tube with bracket: 2 x Ø 9 mm/*0.354 in.* Direct mounting on horizontal support: 3 x Ø 5 mm/*0.20 in.* Other mounting possibilities with accessories	Mounting on support tube with bracket: 2 x Ø 11 mm/*0.43 in.* Direct mounting on horizontal support: 3 x Ø 5 mm/*0.197 in.* Other mounting possibilities with accessories	Direct mounting on horizontal support: - 3 x Ø 6 mm/*0.236 in.* (without siren) - 3 x Ø 7 mm/*0.276 in.* (with siren) Other mounting possibilities with accessories
XVC4	**XVC6**	**XVC1**

Signaling solutions
Harmony type XV

Harmony type XV		Modular tower lights	
Type of products		Illuminated beacons Variable composition tower lights for customer assembly of up to 5 units	Tower lights for customer assembly of up to 5 units.
Diameter		Ø 70 mm/2.756 in.	Ø 60 mm/2.362 in.
Degree of protection conforming to IEC 60529		IP 65 (mounted on fixing base XVBZ0●) IP 66 (mounted on base unit)	IP 65 for illuminated units IP 54 for audible units IP 55 for flexible mounting unit
Type of signalling	Steady	Yes	Yes
	Flashing	Yes	Yes
	High flashing	–	Yes
	"Flash"	Yes	–
	Sound	Yes	Yes (buzzer or editable voice)
Light sources	Incandescent bulb	Yes	–
	LED bulb	"PROTECTED LED"	–
	Integral LED	"PROTECTED LED"	Yes
	"Flash" discharge tube	Yes	–
	Halogen bulb	–	–
Colors of illuminated units		□ Green □ Red □ Orange □ Blue □ Clear □ Yellow	□ Green □ Red □ Orange □ Blue □ White □ Yellow
Connection		Screw clamp terminals	Spring cage connection terminals
Support panel drilling or cut-out		Mounting on support tube: 4 x Ø 5.5 mm/0.217 in. or M5 Vertical mounting: 3 x Ø 5 mm/0.197 in. or M5 Direct mounting: 2 x Ø 4.5 mm/0.177 in. or M4	Mounting on support tube and adjustable support tube: 4 x Ø 6 mm/0.236 in. Flexible wall mounting: 3 x Ø 5 mm/0.197 in. Direct mounting: 2 x Ø 5 mm/0.197 in. 3 x Ø 5 mm/0.197 in. 4 x Ø 5 mm/0.197 in. Mounting on bracket: 2 x Ø 9 mm/0.354 in.
Type references		**XVBL, XVBC**	**XVU**

Modular tower lights	Rotating beacons	Beacons	Sound solutions
Pre-assembled/pre-cabled tower lights Variable composition tower lights for customer assembly of up to 5 units	Pre-cabled rotating beacons Pre-cabled motor-less rotating/flashing beacons	Complete miniature beacons	Sirens and electronic alarms
Ø 45 mm/1.772 in.	Ø 84 mm/3.31 in. to Ø 130 mm/5.12 in.	Ø 45 mm/1.772 in.	–
IP 54 in vertical position (XVM with plastic fixing plate) IP 42 in horizontal position (XVM with metal bracket) IP 40 in other positions (all types of XVM tower lights)	Ø 84 mm/3.31 in. and Ø 106 mm/4.17 in.: IP 23 (IP 65 with accessory) Ø 120 mm/4.72 in.: IP 23 Ø 130 mm/5.12 in.: IP 66 and IP 67 (depending on voltage) Ø 100 mm/3.94 in.: IP 65 for upright position, IP 23 for sideway and inverted position	IP 40	IP 53 (sirens) IP 54 (electronic alarms) IP 65 (editable voice)
Yes	Yes	Yes	–
Yes	–	–	–
–	–	–	–
Yes	–	Yes	–
Yes	Yes	–	Yes (editable voice)
Yes	–	Yes	–
Yes	"Super Bright"	–	–
–	–	–	–
Yes	–	Yes	–
–	Yes	–	–
□ Red □ Green □ Orange □ Blue □ Clear	□ Red □ Orange □ Green □ Blue	□ Green □ Red □ Orange □ Blue □ Clear □ Yellow	–
Flying leads, length 300 mm/11.81 in. or screw terminals	Flying leads, length 400 mm/15.75 in. (except XVR08: 500 mm/19.68 in.)	Screw clamp terminals	Screw clamp terminals (except XVS14: flying leads, length 500 mm/19.68 in.)
Mounting on bracket: 2 x Ø 9 mm /0.354 in. Mounting on support tube: 4 x Ø 5.5 mm/0.217 in. or M5	Depending on model: - XVR08 (Ø 84 mm/3.31 in.): 3 x Ø 5 mm/0.197 in. - XVR10 (Ø 106 mm/4.17 in.): 3 x Ø 5 mm/0.197 in. - XVR12 (Ø 120 mm/4.72 in.): 3 x Ø 6 mm/0.236 in. - XVR13 (Ø 130 mm/5.12 in.): 3 x Ø 9 mm/0.354 in. - XVR13●●●L (Ø 130 mm/5.12 in.): 3 x Ø 7 mm/0.276 in. - XVR3 (Ø 100 mm/3.94 in.): 3 x Ø 6 mm/0.236 in.	3 x Ø 3.3 mm/0.130 in. or M3	3 x Ø 6.5 mm/0.256 in.
XVM	**XVR**	**XVDLS**	**XVS**

Signaling units
Rotating beacons
Harmony XVR
Ø 84, Ø 106, Ø 120, and Ø 130
(equipped with Super Bright LED)

Ø 84   Ø 106   Ø 120   Ø 130

Rotating beacons

Presentation

The rotating beacons in the Harmony XVR range are optical signaling units designed for long distance signaling applications. They are used mainly in the iron and steel industry, on industrial handling vehicles or for safety applications.

Ø 84 (XVR08), Ø 106 (XVR10), Ø 120 (XVR12), Ø 130 (XVR13) rotating beacons

The range involves complete products offering simplicity of use and speed of installation: they are supplied pre-cabled, and equipped with their light source. The use of "Super-bright" LEDs provides good illuminating power and a long service life (reduced time for maintenance) owing to their high resistance to mechanical shock and vibration. These light sources are also energy saving with low power consumption. A reflecting prism can be used for increasing light diffusion.

4 sizes are available:
- Ø 84 mm/*3.31 in.* (XVR08), colors: red, orange, green, and blue
- Ø 106 mm/*4.17 in.* (XVR10), colors: red, orange, green, and blue
- Ø 120 mm/*4.72 in.* (XVR12), colors: red, orange, green, and blue
- Ø 130 mm/*5.12 in.* (XVR13), colors: red and orange

For greater efficiency, Ø 120 mm/*4.72 in.* rotating beacons can be delivered with a complementary audible unit: a buzzer at the base of the product, with a continuous or intermittent tone and an adjustable sound level of 50 dB to 90 dB at 1 m/*3.28 ft.*

Environment

XVR rotating beacons can offer a high degree of protection:
□ The addition of the rubber base accessory provides IP 55 protection (or IP 65 for small models).
□ Depending on the model, Ø 130 mm/*5.12 in.* rotating beacons provide IP 66 (vibration resistance) or IP 67 protection.

These products meet the requirements of the following standards:
□ EN/IEC 61000-6-2 and EN/IEC 61000-6-4 for Ø 84 mm/*3.31 in.* (XVR08), 106 mm/*4.17 in.* (XVR10), 120 mm/*4.72 in.* (XVR12), and 130 mm/*5.12 in.* rotating beacons for DC (**XVR13B●●** and **XVR13J●●**)
□ EN/IEC 60947-1 and EN/IEC 60947-5-1 for the other Ø 130 mm/*5.12 in.* rotating beacons (**XVR13●●L**) for 24 VAC/DC, 120 VAC, or 230 VAC

These products are CE, UL, and CSA certified.

Connection

Connection is via flying leads, length 400 mm/*15.7 in.* (500 mm/*19.7 in.* for XVR08) and cross-section 0.83 mm²/*18 AWG* (1.25 mm²/*16 AWG* for XVR13).

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Signaling units
Rotating beacons
Harmony XVR
Ø 100
(multi-functional LED beacon)

Ø 100 motor-less rotating beacon

Presentation

Ø 100 (XVR3) motor-less rotating/flashing beacons

The Ø 100 mm/*3.94 in.* range of motor-less rotating/flashing beacons in the Harmony XVR range are visual and audible signaling units mainly used for factory applications, construction vehicles, and in public areas. Available in 4 different colors (red, orange, green, and blue) they come with a faceted lens, which extends the lighting area while giving a unique look. This unique aesthetic design, which distinguishes them from other beacons, has been recognized by the Red Dot industrial design award for 2014 *(1)*. Installation is made easy with a flexible voltage input, a light mode selector, and an integrated rubber base allowing straight and side wiring.

Signaling type

■ Audible signaling: Adjustable 90 dB buzzer at 1m/*3.28 ft* (external buzzer volume adjustable from 70 dB to 90 dB)

■ Visual signaling: Rotating, blinking, and flashing LEDs (10 lighting modes, adjusted by mode switch)

Lighting modes

Rotating	Mode 0	Rotating 100 min^{-1}
	Mode 1	Rotating 140 min^{-1}
	Mode 2	Rotating 200 min^{-1}
Blinking	Mode 3	Blinking 60 min^{-1}
	Mode 4	Blinking 130 min^{-1}
Flashing	Mode 5	Flashing 3 times consecutively
	Mode 6	Flashing 5 times consecutively
	Mode 7	Flashing 8 times consecutively
	Mode 8	Flashing 11 times consecutively
	Mode 9	Flashing continuously

Environment

The XVR3 range has the following characteristics:

■ Degree of protection
□ Up to IP 65 (without buzzer, upright installation)

■ Vibration resistance
□ Up to 7.1G (upright installation)

■ Product certifications and standards
□ These products are UL, e, UKCA certified and RoHS compliant
□ Compliant enclosure rating Type 4/4x indoor for upright position

Connection

Connection is via flying leads, length 400 mm/*15.75 in.* and cross-section 0.57 mm^2/*20 AWG (2)*.

(1) For more information on the red dot award, visit:
http://www.red-dot-21.com/products/xvr3-beacon-22577
(2) Without buzzer: VCT-F power cable (Ø 6.6 mm/0.260 in.) 0.652 mm^2 x 2/19 AWG x 2
With buzzer: VCT-F signal and power cable (Ø 8.2 mm/0.323 in.) 0.652 mm^2 x 5/19 AWG x 5

Signaling units
Rotating beacons
Harmony XVR
Ø 84, Ø 106, Ø 120, and Ø 130
(equipped with Super Bright LED)

XVR08B04

XVR10B05

XVR12B06

XVR13B05

XVR13B05L

Complete, pre-cabled rotating beacons

Diameter Ø mm/*in.*	Sound option	IP degree of protection	Voltage V	Color	Reference	Weight kg/*lb*
84/*3.31*	Without buzzer	IP 23 (IP 65 with accessories)	⌁ 24	Red	**XVR08B04**	0.300/*0.661*
				Orange	**XVR08B05**	0.300/*0.661*
				Green	**XVR08B03**	0.300/*0.661*
				Blue	**XVR08B06**	0.300/*0.661*
106/*4.17*	Without buzzer	IP 23 (IP 55 with accessories)	⌁ 24	Red	**XVR10B04**	0.500/*1.102*
				Orange	**XVR10B05**	0.500/*1.102*
120/*4.72*	Without buzzer	IP 23	⌁ 24	Red	**XVR12B04**	0.500/*1.102*
				Orange	**XVR12B05**	0.500/*1.102*
				Blue	**XVR12B06**	0.500/*1.102*
120/*4.72*	With buzzer, continuous or intermittent tone. Sound level at 1 m/*3.28 ft:* 50 to 90 dB	IP 23	⌁ 24	Red	**XVR12B04S**	0.500/*1.102*
				Orange	**XVR12B05S**	0.500/*1.102*
				Blue	**XVR12B06S**	0.500/*1.102*
130/*5.12*	Without buzzer	IP 66 vibration resistance	⎓ 24	Red	**XVR13B04**	0.800/*1.764*
				Orange	**XVR13B05**	0.800/*1.764*
		IP 66 and IP 67	⌁ 24	Red	**XVR13B04L**	0.820/*1808*
				Orange	**XVR13B05L**	0.820/*1808*
			∼ 120	Red	**XVR13G04L**	0.990/*2183*
				Orange	**XVR13G05L**	0.990/*2183*
			∼ 230	Red	**XVR13M04L**	0.990/*2183*
				Orange	**XVR13M05L**	0.990/*2183*

Accessories for rotating beacons

Description	To be used for/with	Diameter mm/*in.*	Height mm/*in.*	Reference	Weight kg/*lb*
Rubber base	IP 65 protection	84/*3.31*	–	**XVRZ081**	0.040/*0.088*
Metal angle bracket	Horizontal support	84/*3.31*, 100/*3.94*, 106/*4.17*, 120/*4.72*	–	**XVCZ23**	0.380/*0.084*
		130/*5.12*	–	**XVR012L**	1.300/*2.866*
Metal fixing plate	Horizontal support	106/*4.17*, 120/*4.72*	300/ *11.8*	**XVCZ13**	0.700/*1.543*

XVRZ081

XVRZR1

XVRZR2

XVRZ082

XVRZR3

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Signaling units
Rotating beacons
Harmony XVR
Ø 100
(multi-functional LED beacon)

XVR3B03

XVR3B04S

XVR3E06

XVR3B05

Complete, pre-cabled motor-less rotating/flashing beacons

Diameter Ø mm/in.	Sound option	IP degree of protection	Voltage V	Color	Reference	Weight kg/lb
100/3.94	Without buzzer	IP 65 (upright) IP 23 (sideways, inverted)	--- 12-24	Green	XVR3B03	0.484/1.067
				Red	XVR3B04	0.484/1.067
				Orange	XVR3B05	0.484/1.067
				Blue	XVR3B06	0.484/1.067
			∼ 100-230	Green	XVR3M03	0.484/1.067
				Red	XVR3M04	0.484/1.067
				Orange	XVR3M05	0.484/1.067
				Blue	XVR3M06	0.484/1.067
100/3.94	With buzzer	IP 23 (upright, sideways, inverted)	--- 12-24	Green	XVR3B03S	0.538/1.186
				Red	XVR3B04S	0.538/1.186
				Orange	XVR3B05S	0.538/1.186
				Blue	XVR3B06S	0.538/1.186
			∼ 100-230	Green	XVR3M03S	0.538/1.186
				Red	XVR3M04S	0.538/1.186
				Orange	XVR3M05S	0.538/1.186
				Blue	XVR3M06S	0.538/1.186
100/3.94	Without buzzer	IP 65 (upright) IP 23 (sideways, inverted)	--- 48	Green	XVR3E03	0.484/1.067
				Red	XVR3E04	0.484/1.067
				Orange	XVR3E05	0.484/1.067
				Blue	XVR3E06	0.484/1.067

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