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Signaling units

Ø 84 - 130

Harmony® XVR rotating beacons

Catalog

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Harmony® XVR rotating beacons

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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)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 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
- > Flexibility 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



10 lighting mode selector in Ø 100 beacon

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
- > CE certified and RoHS compliant



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



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→ Industrial applications

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



Factory
applications



Construction
vehicles



Public
areas

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	–
	"Flash"	–	–
	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		Muti-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 Ø 5 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



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
	"Flash"	Yes	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	–
		–	–
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 sideways 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



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).

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

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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 RoHS, CE and CCC compliant

Connection

Connection is via flying leads, length 400 mm/15.75 in. and cross-section 0.57 mm²/20 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 mm² x 2/19 AWG x 2

With buzzer: VCT-F signal and power cable (Ø 8.2 mm/0.323 in.) 0.652 mm² 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)



XVR08J06



XVR10J05



XVR12J04



XVR13J05



XVR13B05L



XVRZR1



XVRZ081



XVRZR2



XVRZ082



XVRZR3

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)	~ 12	Red	XVR08J04	0.300/0.661
				Orange	XVR08J05	0.300/0.661
				Green	XVR08J03	0.300/0.661
				Blue	XVR08J06	0.300/0.661
			~ 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)	~ 12	Red	XVR10J04	0.500/1.102
				Orange	XVR10J05	0.500/1.102
				Green	XVR10J03	0.500/1.102
				Blue	XVR10J06	0.500/1.102
			~ 24	Red	XVR10B04	0.500/1.102
				Orange	XVR10B05	0.500/1.102
				Green	XVR10B03	0.500/1.102
				Blue	XVR10B06	0.500/1.102
120/4.72	Without buzzer	IP 23	~ 12	Red	XVR12J04	0.500/1.102
				Orange	XVR12J05	0.500/1.102
				Green	XVR12J03	0.500/1.102
				Blue	XVR12J06	0.500/1.102
			~ 24	Red	XVR12B04	0.500/1.102
				Orange	XVR12B05	0.500/1.102
				Green	XVR12B03	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	~ 12	Red	XVR12J04S	0.500/1.102
				Orange	XVR12J05S	0.500/1.102
				Green	XVR12J03S	0.500/1.102
				Blue	XVR12J06S	0.500/1.102
			~ 24	Red	XVR12B04S	0.500/1.102
				Orange	XVR12B05S	0.500/1.102
				Green	XVR12B03S	0.500/1.102
				Blue	XVR12B06S	0.500/1.102
			~ 12	Red	XVR13J04	0.800/1.764
				Orange	XVR13J05	0.800/1.764
				Red	XVR13B04	0.800/1.764
				Orange	XVR13B05	0.800/1.764
130/5.12	Without buzzer	IP 66 vibration resistance	~ 24	Red	XVR13B04L	0.820/1808
				Orange	XVR13B05L	0.820/1808
			~ 120	Red	XVR13G04L	0.990/2183
				Orange	XVR13G05L	0.990/2183
		IP 66 and IP 67	~ 230	Red	XVR13M04L	0.990/2183
				Orange	XVR13M05L	0.990/2183
			~ 120	Red	XVR13G04L	0.990/2183
				Orange	XVR13G05L	0.990/2183

Accessories for rotating beacons

Description	To be used for/with	Diameter mm/in.	Height mm/in.	Reference	Weight kg/lb
Reflecting prism	Increasing light diffusion	84/3.31	–	XVRZR1	0.010/0.022
		106/4.17	–	XVRZR2	0.015/0.033
		120/4.72, 130/5.12	–	XVRZR3	0.020/0.044
Rubber base	IP 65 protection	84/3.31	–	XVRZ081	0.040/0.088
	IP 55 protection	106/4.17	–	XVRZ082	0.050/0.110
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

Signaling units

Rotating beacons

Harmony XVR

Ø 100

(multi-functional LED beacon)

PF141507A



XVR3B03

PF141508A



XVR3B04S

PF141509A



XVR3E06

PF141509A



XVR3Z001

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
	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	Red	XVR3E03	0.484/1.067
				Orange	XVR3E04	0.484/1.067
				Green	XVR3E05	0.484/1.067
				Blue	XVR3E06	0.484/1.067

Accessories for motor-less rotating beacons

Description	To be used for/with	Reference	Weight kg/lb
External lens	Multi-functional LED beacon	XVR3Z001	0.083/0.183

X		XVR13G05L	8
XVCZ13	8	XVR13J04	8
XVCZ23	8	XVR13J05	8
XVR3B03	9	XVR13M04L	8
XVR3B03S	9	XVR13M05L	8
XVR3B04	9	XVRZ081	8
XVR3B04S	9	XVRZ082	8
XVR3B05	9	XVRZR1	8
XVR3B05S	9	XVRZR2	8
XVR3B06	9	XVRZR3	8
XVR3B06S	9		
XVR3E03	9		
XVR3E04	9		
XVR3E05	9		
XVR3E06	9		
XVR3M03	9		
XVR3M03S	9		
XVR3M04	9		
XVR3M04S	9		
XVR3M05	9		
XVR3M05S	9		
XVR3M06	9		
XVR3M06S	9		
XVR3Z001	9		
XVR08B03	8		
XVR08B04	8		
XVR08B05	8		
XVR08B06	8		
XVR08J03	8		
XVR08J04	8		
XVR08J05	8		
XVR08J06	8		
XVR10B03	8		
XVR10B04	8		
XVR10B05	8		
XVR10B06	8		
XVR10J03	8		
XVR10J04	8		
XVR10J05	8		
XVR10J06	8		
XVR12B03	8		
XVR12B03S	8		
XVR12B04	8		
XVR12B04S	8		
XVR12B05	8		
XVR12B05S	8		
XVR12B06	8		
XVR12B06S	8		
XVR12J03	8		
XVR12J03S	8		
XVR12J04	8		
XVR12J04S	8		
XVR12J05	8		
XVR12J05S	8		
XVR12J06	8		
XVR12J06S	8		
XVR012L	8		
XVR13B04	8		
XVR13B04L	8		
XVR13B05	8		
XVR13B05L	8		
XVR13G04L	8		



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