Beacons and indicator banks Ø 70 "optimum" Harmony XVE

Catalogue March











Ø 70 mm Optimum, Harmony type XVE

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Dimensions, mounting, connection

Ø 70 mm Optimum, Harmony type XVE

Presentation

The beacons and indicator banks of the XVE range are designed for remote signalling of the status of a machine, equipment or specific application, either visually using illuminated units which are visible throughout 360° or audibly using an 85 dB buzzer. The XVE Optimum range provides efficient signalling (5 colours available), at medium range distances (30 m), in both indoor and outdoor environments.

The standard configuration of the beacons and indicator banks is an IP 42 degree of protection, which is sufficient for the majority of indoor applications.

Both the IP 42 pre-configured beacons and indicator banks can be upgraded to IP 54 by using a sealing kit (1).

Depending on the indicator bank base unit selected, it is possible to achieve an IP 54 degree of protection for outdoor usage (1).

Composition

■ The beacons are supplied complete and incorporate a single steady or "flash" light illuminated unit and a short fixing base. They are ready to use.

■ The indicator banks must be assembled by the user and comprise signalling units, mounted on a base unit, and a fixing base. These various items are to be selected from the catalogue.

□ For an indicator bank a maximum of 5 illuminated units or 4 illuminated units + 1 audible unit can be assembled.

□ The illuminated or audible units stack vertically and are easily fitted together. A screw secures their mounting. Electrical connections between each unit are made automatically as the units are mechanically assembled.

□ All the signalling units are identical in size and their positioning is unrestricted.

Signalling functions

Steady light signalling

Two types of light source are available for steady light signalling:

□ The incandescent BA 15d base fitting bulb, 5 W max. power, is recommended for infrequent usage and where no vibration or mechanical shock exists. The bulb is not included with the lens unit and must be fitted separately.

□ LEDs are recommended for continuous usage: 100,000 operating hours without maintenance and low consumption. They have a good resistance to vibration. Using an LED of a colour best suited to the colour of the lens unit provides optimal luminosity.

Flashing light signalling

Flashing light signalling is also obtained using the LED. It meets requirements regarding reliability, continuous usage and electronic simplicity.

A flashing function can also be obtained from a steady light LED illuminated unit by using a PLC output signal.

"Flash" light signalling

The light source is a 1 Joule discharge tube which delivers a powerful warning signal. It is available for the 5 colours.

Audible signalling

Audible signalling is provided by a continuous tone buzzer with a power rating of 85 dB at 1 m.

Installation

Mounting

Fixed onto support panel using plastic monobloc fixing base or fixing base comprising an aluminium support tube pre-fitted into a plastic fixing support.

Cabling

Cabling by means of terminal block incorporated in base unit. The terminals are protected and of the screw and captive cable clamp type.

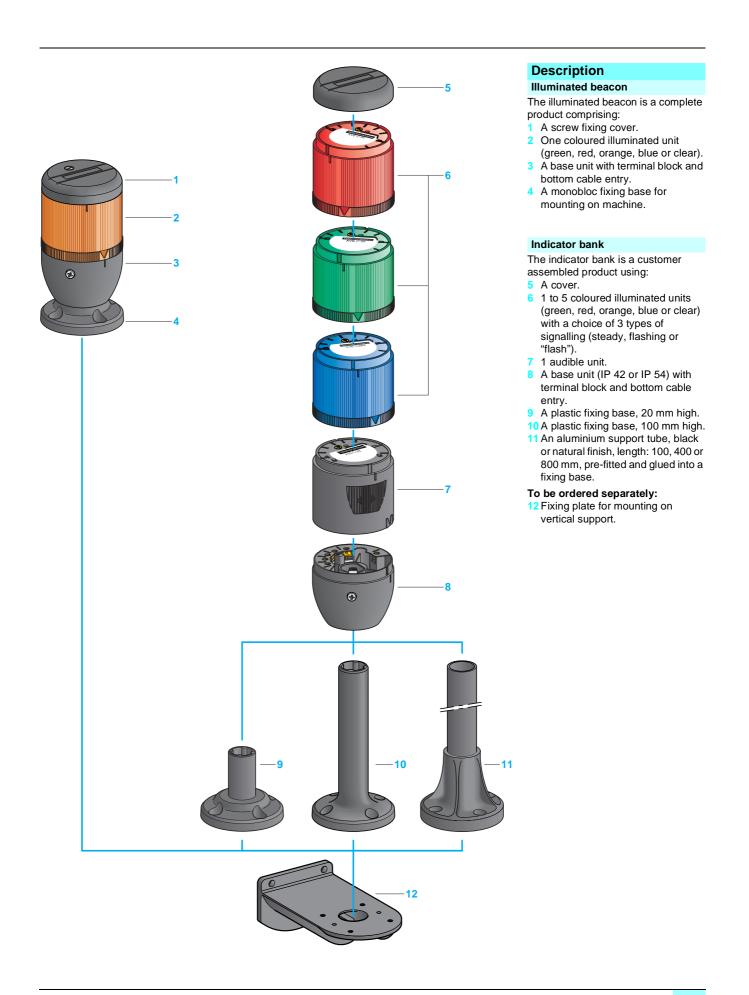
(1) See page 7.

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Description

Beacons and indicator banks

Ø 70 mm Optimum, Harmony type XVE



Characteristics

Beacons and indicator banks

Ø 70 mm Optimum, Harmony type XVE

Environment						
Degree of protection	Conforming to IEC 60529		 IP 54 for reinforce for all mounting point 	osition, IP 40 for other d protection version: ositions using fixing ba sition for other heights	ase XVE Z13,	
Product certifications			$C \epsilon$, UL, CSA	short of other neights	or fixing base	
Annrovala			CCC (pending)			
Approvals Conformity to standards			IEC/EN 60947-1, IEC	C/EN 60947-5-1		
-						
Ambient air temperature	For storage	°C	- 40+ 70			
	For operation	°C	- 25+ 55			
Electric shock protection Conforming to IEC 61140	Mounted on plastic support tube		Class I			
	Mounted on aluminium support tube		Class I			
Protective treatment			Standard version: "T	C"		
Electronic components	By integral fuse in series on the	Α	0.63 (≂ 24 V)			
protection (LED and flash)	common	Α	0.16 (~ 120240 V	')		
Electrical characteri	stics					
Illuminated units			With bulb, not included (lens unit only)	With integral LED, steady light	With integral LED, flashing light	With "flash" discharge tube, 1 Joule
Rated insulation voltage (Ui)	Conforming to IEC 60947-1	v	250	250	250	250
Voltage limits	Conforming to IEC 60947-5-1	۷	0.851.10 Un (Un: nominal voltage)			
Light source			BA 15d base fitting bulb, maximum power 5 W (240 V max.)	LED	LED	"Flash" discharge tube, 1 Joule
Consumption	$On \overline{\sim} 24 V$	mA	Depending on bulb used	18	20	135 on \sim 24 V 76 on $=$ 24 V
	$On \approx 120 V$	mA	Depending on bulb used	23	23	27
	On \sim 230/240 V	mA	Depending on bulb used	20	20	18
Rated impulse withstand voltage	Conforming to IEC 60947-1	kV	U imp = 4			
Illuminating power	Average value for all colours	cds/ m²	640	800	800	-
Flashing frequency	Nominal value	Hz	-	-	1	1
Audible units			1			
Consumption	$On \overline{\sim} 24 V$	mA	13			
	$\overline{On} \approx 120 \text{ V}$	mA	20			
	$\overline{ m On}$ \sim 230/240 V	mA	20			
Power	Continuous tone	dB	85 at 1 m			
	Fundamental frequency	kHz	2.8 for continuous tone			
Connection of illuminated an	d audible units					
Terminal referencing				d "C" common to all 5	units	
Connection		m?	5 terminals reference			
Connection	Maximum clamping capacity on protected, ready-to-tighten, screw and captive cable clamp terminals	mm²	1 x 1.5 with cable en	a		

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Ø 70 mm Optimum, Harmony type XVE Illuminated beacons



XVE L300











Description	Light source	Supply voltage	Colour of lens unit	Reference	Weight kg
Complete unit	Bulb, not	ightarrow 240 V max.	Green	XVE L33	0.245
comprising:	included, , 5 W max.		Red	XVE L34	0.245
 1 screw fixing cover 1 illuminated unit, 1 base unit, 			Orange	XVE L35	0.245
			Blue	XVE L36	0.245
- 1 short fixing base			Clear	XVE L37	0.245
	Illuminated	≂ 24 V	Green	XVE L2B3	0.250
	unit with		Red	XVE L2B4	0.250
	integral LED		Orange	XVE L2B5	0.250
			Blue	XVE L2B6	0.250
			Clear	XVE L2B7	0.250
		\sim 120 V	Green	XVE L2G3	0.250
			Red	XVE L2G4	0.250
			Orange	XVE L2G5	0.250
			Blue	XVE L2G6	0.250
			Clear	XVE L2G7	0.250
		$\overline{\sim}$ 230 V/240 V	Green	XVE L2M3	0.250
			Red	XVE L2M4	0.250
			Orange	XVE L2M5	0.250
			Blue	XVE L2M6	0.250
			Clear	XVE L2M7	0.250
Illuminated be	acons wit	h "flash" lig	ght		
Description	Light source	Supply voltage	Colour of lens unit	Reference	Weight kg

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Description	Light source	Supply voltage	Colour of lens unit	Reference	Weight kg
Complete unit	Illuminated	ightarrow 24 V	Green	XVE L6B3	0.270
comprising:	 1 screw fixing cover, 1 Joule "flash" 1 illuminated unit, discharge tube 		Red	XVE L6B4	0.270
			Orange	XVE L6B5	0.270
- 1 base unit,			Blue	XVE L6B6	0.270
- 1 short fixing base			Clear	XVE L6B7	0.270
		\sim 120 V	Green	XVE L6G3	0.270
			Red	XVE L6G4	0.270
			Orange	XVE L6G5	0.270
			Blue	XVE L6G6	0.270
			Clear	XVE L6G7	0.270
		\sim 230 V/240 V	Green	XVE L6M3	0.270
			Red	XVE L6M4	0.270
			Orange	XVE L6M5	0.270
			Blue	XVE L6M6	0.270
			Clear	XVE L6M7	0.270

Separate co	mponents		
Description	Details	Reference	Weight kg
IP 54 sealing kit	1 lens unit seal + 1 base unit seal + 2 fixing base seals	XVE Z083	0.005
Fixing plate	For mounting beacons on vertical support (requires a fixing base)	XVB C12	0.380

Description	Electrical characteristics		Reference	Weight kg
Clear incandescent bulbs with BA 15d base fitting for lens units type	5 W ≂ 24 V	10	DL1 BEBS	0.100
	5 W ≂ 120 V	10	DL1 BEGS	0.100
XVE L3•	5 W	10	DL1 BEMS	0.100



Ø 70 mm Optimum, Harmony type XVE Indicator banks for customer assembly

Composition of an indicator bank:

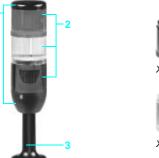
Cover and base unit

(5 units max.)

3 Fixing base

Illuminated or audible units

1 2





Illuminated units with steady light							
Description	Light source	Supply voltage	Colour of lens	Reference	Weight kg		
	Bulb, not included,	\eqsim 240 V max.	Green	XVE C33	0.072		
for BA 15d base	5 W max.		Red	XVE C34	0.072		
fitting bulb			Orange	XVE C35	0.072		
			Blue	XVE C36	0.072		
			Clear	XVE C37	0.072		
Illuminated	Integral LED	\approx 24 V	Green	XVE C2B3	0.077		
units			Red	XVE C2B4	0.077		
			Orange	XVE C2B5	0.077		
			Blue	XVE C2B6	0.077		
			Clear	XVE C2B7	0.077		
		\sim 120 V	Green	XVE C2G3	0.077		
			Red	XVE C2G4	0.077		
			Orange	XVE C2G5	0.077		
			Blue	XVE C2G6	0.077		
			Clear	XVE C2G7	0.077		
		\sim 230 V/240 V	Green	XVE C2M3	0.077		
			Red	XVE C2M4	0.077		
			Orange	XVE C2M5	0.077		
			Blue	XVE C2M6	0.077		
			Clear	XVE C2M7	0.077		

Illuminated units with flashing light

Illuminated	Integral LED	≂24 V	Green	XVE C5B3	0.077
units			Red	XVE C5B4	0.077
			Orange	XVE C5B5	0.077
			Blue	XVE C5B6	0.077
			Clear	XVE C5B7	0.077
		\sim 120 V	Green	XVE C5G3	0.077
			Red	XVE C5G4	0.077
			Orange	XVE C5G5	0.077
			Blue	XVE C5G6	0.077
			Clear	XVE C5G7	0.077
		\sim 230 V/240 V	Green	XVE C5M3	0.077
			Red	XVE C5M4	0.077
			Orange	XVE C5M5	0.077
			Blue	XVE C5M6	0.077
			Clear	XVE C5M7	0.077



XVE C500

XVE C600

Illuminate	d units with '	"flash" ligh	t		
Illuminated	"Flash" discharge	\sim 24 V	Green	XVE C6B3	0.094
units	tube, 1 Joule		Red	XVE C6B4	0.094
			Orange	XVE C6B5	0.094
			Blue	XVE C6B6	0.094
			Clear	XVE C6B7	0.094
		\sim 120 V	Green	XVE C6G3	0.094
			Red	XVE C6G4	0.094
			Orange	XVE C6G5	0.094
			Blue	XVE C6G6	0.094
			Clear	XVE C6G7	0.094
		\sim 230 V/240 V	Green	XVE C6M3	0.094
			Red	XVE C6M4	0.094
			Orange	XVE C6M5	0.094
			Blue	XVE C6M6	0.094
			Clear	XVE C6M7	0.094



nits			
Power	Supply voltage	Reference	Weight kg
85 dB at 1 metre	\sim 24 V	XVE C9B	0.090
	\sim 120 V	XVE C9G	0.090
	\sim 230 V/240 V	XVE C9M	0.090
	Power	Power Supply voltage 85 dB at 1 metre ≂ 24 V ~ 120 V	Power Supply voltage Reference 85 dB at 1 metre ~ 24 V XVE C9B ~ 120 V XVE C9G

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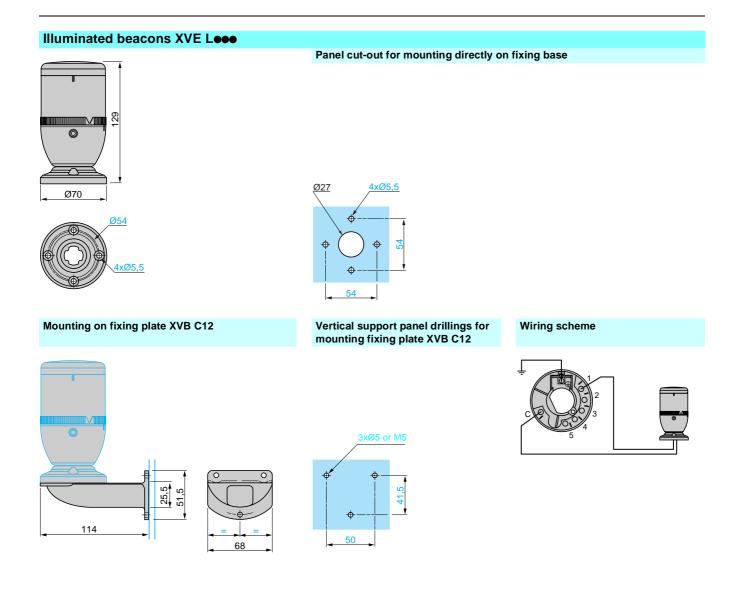
Ø 70 mm Optimum, Harmony type XVE Indicator banks for customer assembly

		Base units and o	overs			
		Indicator bank usage	Composition		Reference	Weight
Ì		Indoors (IP 42)	Base unit and cover		XVE C21	kg 0.110
XVE C21		Outdoors (IP 54)	Base unit with seal + screw fixing cover + kit comprising 5 sea and buzzer + 1 seal for fixing base		XVE C21P	0.120
XVD C2 IF		Fixing compone	nte			
	T	Description	Height under base unit (mm)	Colour	Reference	Weight kg
		Plastic fixing bases	20	Black	XVE Z13	0.040
4			100	Black	XVD C02	0.056
XVE Z13	XVD C02	Fixing bases comprising: Ø 25 mm aluminium	80	Black aluminium	XVB Z02	0.110
		support tube + black plastic fixing support		Aluminium	XVB Z02A	0.110
			400	Black aluminium	XVB Z03	0.200
				Aluminium	XVB Z03A	0.200
			800	Black aluminium	XVB Z04	0.325
XVB Z02	XVB Z03			Aluminium	XVB Z04A	0.325
		Description	For	Material	Reference	Weight kg
		Fixing base	Ø 25 mm aluminium support tube	Plastic	XVB Z01	0.050
XVB Z01		Fixing plate	Mounting indicator banks on vertical support (requires a fixing base)	Zamak	XVB C12	0.380
		Separate compo	nents			
		Description	Composition		Reference	Weight kg
XVE Z081		Cover	-		XVE Z081	0.010
S XVE Z082		IP 54 sealing kit	5 toric seals for lens u + base unit seal + 1 fixing base seal + 1 seal for fixing base + screw fixing cover		XVE Z082	0.015
A v L 2002		Description	Electrical characteristics		Reference	Weight kg
-3		Clear incandescent bulbs with BA 15d base	5 W	10	DL1 BEBS	0.100
DL1 BE•S		fitting for lens units type	5 W ≂ 120 V	10	DL1 BEGS	0.100
		XVE C3•	5 W ≂ 230 V	10	DL1 BEMS	0.100

Dimensions, mounting, connection

Beacons and indicator banks

Ø 70 mm Optimum, Harmony type XVE Illuminated beacons





Dimensions, mounting, connection

Beacons and indicator banks

Ø 70 mm Optimum, Harmony type XVE Indicator banks

Indicator banks XVE Cooo



1 Cover XVE Z081 or cover XVE C21/C21P (with base unit),

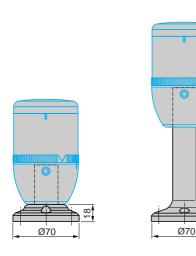
- 2 Illuminated units XVE Coo and/or audible unit XVE Coo,
- 3 Base unit XVE C21/C21P,
- 4 Fixing bases (see below).

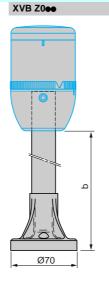
Height of indicator bank				
Number of units (ref. 2)	b			
1 unit	111			
2 units	163			
3 units	215			
4 units	267			
5 units	319			

Panel cut-out for mounting directly

on fixing base

Fixing bases (height under base unit) XVE Z13 XVD C02



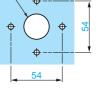


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Height under base unit		
Fixing base	b	
XVB Z02/Z02A	80	
XVB Z03/Z03A	400	
XVB Z04/Z04A	800	

Mounting on fixing plate XVB C12

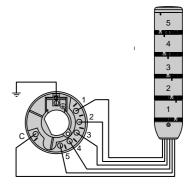
Vertical support panel drillings for mounting fixing plate XVB C12

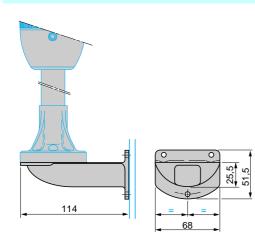


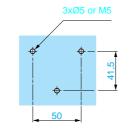
4xØ5.5

<u>Ø27</u>

Wiring scheme







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