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Beacons and indicator banks, Ø 45 mm Optimum

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Beacons and indicator banks Ø 70 mm Application, Harmony type XVD

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Harmony type XV

Optimum



Type of products	Pilot lights	Miniature beacons	Beacons and indicator banks	
Diameter (mm)	Ø 25	Ø 45	Ø 45	Ø 70
Features	Complete pre-cabled products, height 55 mm	Complete products	Complete pre-cabled products or products for customer assembly	Products for customer assembly
Description of the range	–	Illuminated beacons - steady light, - with "flash" discharge tube	Illuminated beacons - steady light, - flashing light, - with "flash" discharge tube	
	–	–	Variable composition indicator banks for customer assembly of up to 5 units: - illuminated units with steady light, flashing light or "flash" discharge tube signalling, - audible unit	
Light sources	Incandescent bulb	■	■	■
	LED bulb	–	■	–
	Integral LED	–	–	■
	"Flash" discharge tube	–	■	■
	Halogen bulb	–	–	–
Degree of protection conforming to IEC 60529	IP 40	IP 40	IP 42 mounted vertically, IP 40 for other positions	IP 42 mounted vertically, IP 40 for other positions. IP 54 with reinforced protection (using sealing kit)
Colours of illuminated units	<input type="checkbox"/> Green <input type="checkbox"/> Red <input type="checkbox"/> Clear <input type="checkbox"/> Yellow	<input type="checkbox"/> Green <input type="checkbox"/> Red <input type="checkbox"/> Orange <input type="checkbox"/> Blue <input type="checkbox"/> Clear <input type="checkbox"/> Yellow	<input type="checkbox"/> Red <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Blue <input type="checkbox"/> Clear	<input type="checkbox"/> Green <input type="checkbox"/> Red <input type="checkbox"/> Orange <input type="checkbox"/> Blue <input type="checkbox"/> Clear
Connection	Flying leads, length 360 mm	Screw clamp terminals	Flying leads, length 300 mm or screw terminals	Screw clamp terminals
Support panel drilling or cut-out	Ø 22 or Ø 30	3 x Ø 3.3 or M3	Mounted on bracket: 2 x Ø 9 Mounting on support tube: 4 x Ø 5,5 or M5	Mounting on support tube: 4 x Ø 5,5 or M5 Vertical mounting: 3 x Ø 5 or M5
Type references	XV1 CA	XVD LS	XVM	XVE L, XVE C
Page(s)	Please consult your Regional Sales Office	4/5	4/9	4/27

Universal	Application
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Indicator banks	Beacons and indicator banks		Rotating mirror beacon	Sirens
Ø 50 Products for customer assembly	Ø 70 Products for customer assembly	Ø 70 Complete pre-cabled products or products for customer assembly	Ø 165 Complete products	Ø 92
–	Illuminated beacons - steady light, - flashing light, - with “flash” discharge tube		Rotating mirror beacon - with halogen bulb, - with incandescent bulb	Power - 106 dB, single tone, - 106 dB, 2 tone
Variable composition indicator banks for customer assembly of up to 5 units: - illuminated units with steady light, flashing light or “flash” discharge tube signalling - audible unit			–	–
■	■	■	■	–
■ “PROTECTED LED”	■ “PROTECTED LED”	■ “PROTECTED LED”	–	–
–	■ “PROTECTED LED”	–	–	–
■	■	■	–	–
–	–	–	■	–
IP 65 for illuminated units IP 43 for audible units	IP 65 (mounted on fixing base XVB Z0●) IP 66 (mounted on base unit)	IP 40	IP 65	IP 40
<input type="checkbox"/> Green <input type="checkbox"/> Red <input type="checkbox"/> Orange <input type="checkbox"/> Blue <input type="checkbox"/> Clear <input type="checkbox"/> Yellow			<input type="checkbox"/> Green <input type="checkbox"/> Red <input type="checkbox"/> Orange <input type="checkbox"/> Blue <input type="checkbox"/> Yellow	–
Screw clamp terminals			Push-on connectors	Screw terminals
Mounted on bracket: 2 x Ø 9 Mounting on support tube: 4 x Ø 5,5 or M5 Vertical mounting: 2 x Ø 4,5 Direct mounting: 4 x Ø 4,2	Mounting on support tube: 4 x Ø 5,5 or M5 Vertical mounting: 3 x Ø 5 Direct mounting: 2 x Ø 4,5 or M4		3 x Ø 6.5	
XVP C	XVB L, XVB C	XVD	XVR	XVS
4/19	4/36	4/49	4/57	4/59

Presentation

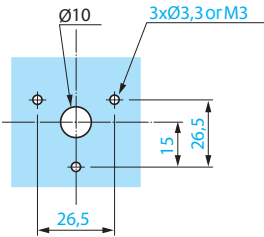
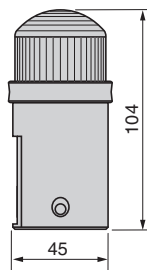
Miniature illuminated beacons XVD LS are suitable for installation on small machines for short distance signalling of the process status.

Characteristics

Product certifications	Standard version		CSA, UL
Conformity to standards			EN/IEC 60947-5-1
Protective treatment	Standard version		"TC"
Ambient air temperature	For storage	°C	- 40...+ 70
	For operation	°C	- 25...+ 70 with incandescent bulb - 10...+ 50 with "flash" discharge tube
Electric shock protection	Conforming to IEC 60536		Class II
Degree of protection	Conforming to IEC 60529		IP 40
Material	Illuminated units		Polycarbonate
	Base unit and cover		Glass-reinforced polyamide and polycarbonate
Rated insulation voltage (Ui)	Conforming to IEC 60947-1	V	250
Consumption	With "flash" discharge tube circuit	mA	~ 24 V: < 90 ~ 24 V: < 145
		mA	~ 120 V: < 35
		mA	~ 230 V: < 25
Rated impulse withstand voltage	Conforming to IEC 60947-1	kV	U imp = 4
Light source	Illuminated units with steady light		Incandescent bulbs with BA 15d base fitting, maximum power 5 W
Illuminating power	Illuminated units with discharge circuit (flash lamp with integral tube)	cds	1.4 (integral high intensity tube) with clear lens unit
Connection	Maximum clamping capacity on protected, ready-to-tighten, screw and captive cable clamp terminals	mm²	1 x 1.5 with cable end
Cable entry			For n° 7 (DIN Pg 7) cable gland, not included

Dimensions

Panel cut-out for direct fixing



Beacons and indicator banks

Illuminated beacons Ø 45 mm

Harmony type XVD LS Optimum

Complete miniature beacons



XVD LS●●

Beacons with steady light signalling

Description	Light source, to be ordered separately	Colour	Reference	Weight kg
Complete unit comprising: - 1 illuminated unit - 1 base unit (direct fixing)	Incandescent bulb 5 W max. 230 V max.	Green	XVD LS33	0.080
		Red	XVD LS34	0.080
		Orange	XVD LS35	0.080
		Blue	XVD LS36	0.080
		Clear	XVD LS37	0.080
		Yellow	XVD LS38	0.080

Bulbs for beacons with steady light signalling

Description	Characteristics		Sold in lots of	Unit reference	Weight kg
Incandescent bulbs BA 15d base fitting	24 V	4 W	10	DL1 BEBS	0.090
	120 V	5 W	10	DL1 BEGS	0.090
	230 V	5 W	10	DL1 BEMS	0.090

Beacons with 1 Joule "flash" discharge tube

Description	Light source (included)	Colour	Reference	Weight kg
Complete unit comprising: - 1 illuminated unit - 1 base unit (direct fixing)	"Flash" discharge tube ~ 24 V	Green	XVD LS6B3	0.085
		Red	XVD LS6B4	0.085
		Orange	XVD LS6B5	0.085
		Blue	XVD LS6B6	0.085
		Clear	XVD LS6B7	0.085
		Yellow	XVD LS6B8	0.085
		Green	XVD LS6G3	0.085
		Red	XVD LS6G4	0.085
	"Flash" discharge tube ~ 120 V	Orange	XVD LS6G5	0.085
		Blue	XVD LS6G6	0.085
		Clear	XVD LS6G7	0.085
		Yellow	XVD LS6G8	0.085
		Green	XVD LS6M3	0.085
		Red	XVD LS6M4	0.085
		Orange	XVD LS6M5	0.085
		Blue	XVD LS6M6	0.085
	"Flash" discharge tube ~ 230 V	Clear	XVD LS6M7	0.085
		Yellow	XVD LS6M8	0.085

Beacons and indicator banks

Beacons and indicator banks Ø 45 mm

Harmony type XVM Optimum

Pre-assembled/pre-cabled and for customer assembly

4



Beacon XVM supplied pre-assembled and pre-cabled, with 1 illuminated unit and fitted with buzzer

Indicator banks XVM supplied pre-assembled and pre-cabled, with 2, 3 or 4 illuminated units and fitted with buzzer

Presentation

Ø 45 mm beacons and indicator banks XVM are available in 2 forms:

■ Pre-assembled and pre-cabled by Telemecanique.

- The beacons are supplied:
 - with 1 illuminated signalling unit,
 - with or without buzzer,
 - fitted with a fixing base, comprising an aluminium support tube and plastic fixing plate, for mounting on a horizontal support.
- The indicator banks are supplied:
 - with 2, 3 or 4 illuminated signalling units,
 - with or without buzzer,
 - fitted with a fixing base, comprising an aluminium support tube and fixing bracket, for mounting on a vertical support. Some models are fitted with a fixing base, comprising an aluminium support tube mounted on a plastic fixing plate, for mounting on a horizontal support.

Pre-assembled and pre-cabled Ø 45 mm beacons and indicator banks XVM cannot be modified due to the wiring.

■ And as separate components (all catalogued) for customer assembly of variable composition units to meet particular requirements.

Light signalling

5 catalogued lens unit colours available: red, orange, green, clear and blue.

These illuminated units incorporate a BA 15d base that can be fitted (by simple 15° rotation) with the choice of light source:

- 1 incandescent bulb,
- 1 LED, or
- 1 "flash" discharge tube.

These 3 types of light source enable:

- steady light signalling using an incandescent bulb or an LED (1),
- flashing light signalling using an LED,
- "flash" light signalling using a "flash" discharge tube.

(1) A flashing function can also be obtained from a steady light LED by using a PLC output signal.

Audible signalling

The beacon or indicator bank is supplied with or without an audible (buzzer) unit depending on the configuration required. The buzzer is housed in the base unit of the beacon or indicator bank.

- There is also a potentiometer in the base unit for adjusting the volume of the audible signal, up to a value of 80 decibels.
- A selector enables the choice of signalling: continuous or intermittent tone.

Modularity

■ Beacons and indicator banks XVM can also be assembled by the customer using separate components, all of which are catalogue listed:

- either 5 illuminated units maximum, or
- a base unit with buzzer and 4 illuminated units.

■ The light sources (incandescent bulb, LED or "flash" discharge tube) are interchangeable. This enables, for example, the replacement of incandescent bulbs initially fitted in an indicator bank by LEDs (longer service life) in order to reduce maintenance operations. The current consumption of LEDs is very low and consequently, their usage has a definite effect on the reduction of power consumption.

■ The illuminated units easily fit together and electrical connections are made automatically.

■ Connections in the base unit for customer assembled indicator banks are made to a screw terminal block.

Cabling

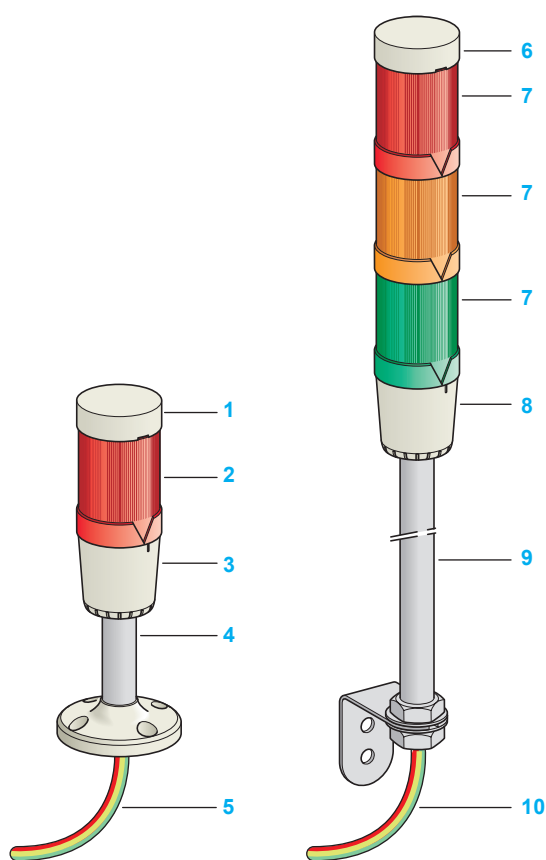
Indicator banks XVM supplied pre-assembled feature referenced wires with a wiring instructions label. Each signalling unit of the indicator bank is identified by a different wire colour.

Beacons and indicator banks

Beacons and indicator banks Ø 45 mm

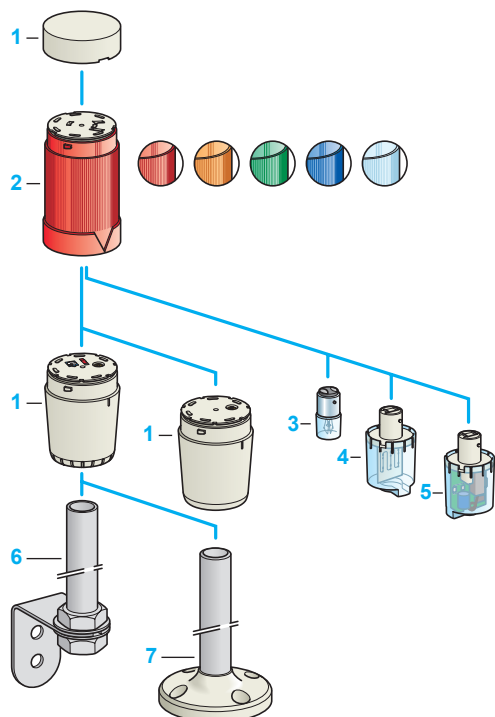
Harmony type XVM Optimum

Pre-assembled/pre-cabled and for customer assembly



Pre-assembled and pre-cabled beacon XVM fitted with buzzer

Pre-assembled and pre-cabled indicator bank XVM with 3 illuminated units and fitted with buzzer



Description

Pre-assembled and pre-cabled beacons and indicator banks

■ The pre-assembled XVM beacons comprise:

- 1 A cover.
- 2 A coloured illuminated unit (red or orange) fitted with either an incandescent bulb, a base mounted LED or a "flash" discharge tube, depending on the catalogued model selected.
- 3 A base unit integrating the buzzer (depending on model).
- 4 A fixing base, comprising a 100 mm high aluminium support tube mounted on a plastic fixing plate, for mounting on a horizontal support.
- 5 300 mm flying lead connections, each wire identified.

■ The pre-assembled XVM indicator banks comprise:

- 6 A cover.
- 7 Two, three or four coloured illuminated units (red, green, orange or blue). Each illuminated unit is fitted with an incandescent bulb or a base mounted LED, depending on the catalogued model selected.
- 8 A base unit integrating the buzzer (depending on model).
- 9 A fixing base, comprising a 250 mm high aluminium support tube mounted on a bracket, for mounting on a vertical support.
- 10 300 mm flying lead connections, each wire identified.

Breakdown of the reference for a pre-assembled indicator bank (1)

		XVM				4 units				3 units				2 units				1 unit				
Voltage	~ 24 V																					
	~ 120 V																					
	~ 230 V																					
Light source	Incandescent bulb																					
	LED																					
Illuminated unit	Colour	Red	R																			
		Orange	A																			
		Green	G																			
		Blue	B																			
		Clear	C																			
	Signalling	Steady		(3)																		
Buzzer		Flashing		5																		
		"Flash"		6																		
	Without																					
		With																				(3) S

Customer assembled indicator banks

The customised composition of XVM indicator banks is obtained by assembling:

- 1 A cover and a base unit, with or without integral buzzer.
- 2 5 illuminated units maximum (4), red, orange, green, blue or clear lens (light source not included).

Each illuminated unit can be fitted with either:

- 3 an incandescent bulb,
- 4 a base mounted LED, or
- 5 a "flash" discharge tube.

Base mounted LEDs and "flash" discharge tubes can be fitted or removed without using a tool.

The assembly detailed above mounts on either:

- 6 an aluminium support tube (length 100, 250 or 400 mm) mounted on a fixing bracket.
- 7 an aluminium support tube (length 100, 250 or 400 mm) mounted in on a plastic fixing plate.

(1) This table is purely for information and must not be used to create a product reference.

(2) "Flash" discharge tube to be ordered separately, see page 4/11.

(3) Not indicated, default value.

(4) Maximum configuration possibilities:

- 5 illuminated units mounted on base unit without buzzer.
- 4 illuminated units mounted on base unit fitted with buzzer.

Environment

Degree of protection	Conforming to IEC 60529		IP 42 mounted vertically IP 40 in other positions
Product certifications			CCC
Approval			CE
Conformity to standards			IEC/EN 60947-1, IEC/EN 60947-5-1
Ambient air temperature	For storage	°C	- 25...+ 70
	For operation	°C	- 10...+ 50
Electric shock protection Conforming to IEC 61140, IEC 60947-1 and IEC 60947-5-1	Mounted on aluminium support tube		Class I
	Mounted on base		Class II
Protective treatment			Standard version "TC"
Electronic components protection (LED and "flash")	Fuse to be connected in series on common	A	0.2 (~ 120...230 V)

Electrical characteristics

Light sources			Incandescent bulbs	LEDs		"Flash" discharge tube, 0.8 Joule
				Steady light signalling	Flashing light signalling	
Rated insulation voltage (Ui)	Conforming to IEC 60947-1	V	250			
Voltage limits	Conforming to IEC 60947-5-1		0.85...1.10 Un			
Light source type	For mounting in BA 15d base, push-and-turn (15°)		BA 15d base fitting			
Consumption	On ~ 24 V	mA	5 W max.	43	45	140 (on ~) 98 (on ---)
	On ~ 120 V	mA	5 W max.	16	16	33
	On ~ 230 V	mA	5 W max.	15	15	20
Rated impulse withstand voltage	Conforming to IEC 60947-1	kV	Uimp = 4			
Illuminating power	Average value for all colours	cds/m²	650	900	900	—
Flashing frequency	Nominal value	Hz	—	—	1	0.8
Audible unit (base unit fitted with buzzer)						
Consumption	On ~ 24 V	mA	15			
	On ~ 120 V	mA	18			
	On ~ 230 V	mA	18			
Power	Continuous or intermittent tone	dB	0...80 at 1 m			
	Fundamental frequency	kHz	4 for continuous tone			
Connection of illuminated and audible units						
Terminal referencing			<input type="checkbox"/> 1 terminal referenced N : common to all 5 units, including base unit fitted with buzzer <input type="checkbox"/> 1 terminal referenced B : for base unit fitted with buzzer <input type="checkbox"/> 4 terminals referenced 1 - 2 - 3 - 4 : for 4 illuminated units mounted on base unit fitted with buzzer <input type="checkbox"/> 5 terminals referenced 1 - 2 - 3 - 4 - 5 : for 5 illuminated units mounted on base unit without buzzer			
Connection	Flying leads on pre-cabled indicator banks		Wire c.s.a.: 1 x 0.325 mm² / AWG 22 (1)			
	Screw terminals		Max.: 1 x 1.5 mm² Min.: 1 x 0.325 mm²			

(1) AWG: American Wire Gauge.

Beacons and indicator banks

Beacons and indicator banks Ø 45 mm

Harmony type XVM Optimum

Pre-assembled and pre-cabled beacons



XVM...F



XVM...SF

Pre-assembled and pre-cabled beacons

With fixing base for mounting on horizontal support (aluminium support tube + plastic fixing plate)

Description	Light source (included)	Voltage (V)	Signalling colour (1)			Reference	Weight kg
			Steady	Flashing	“Flash”		
With 1 illuminated unit							
Without buzzer	Incandescent bulb, 5 W	≈ 24	R	–	–	XVM B1RF	0.216
			O	–	–	XVM B1AF	0.216
		≈ 120	R	–	–	XVM G1RF	0.216
			O	–	–	XVM G1AF	0.216
		≈ 230	R	–	–	XVM M1RF	0.216
			O	–	–	XVM M1AF	0.216
	LED	≈ 24	R	–	–	XVM B2RF	0.163
			–	O	–	XVM B2A5F	0.163
		~ 120	R	–	–	XVM G2RF	0.163
			–	O	–	XVM G2A5F	0.163
		~ 230	R	–	–	XVM M2RF	0.163
			–	O	–	XVM M2A5F	0.163
	“Flash” discharge tube	≈ 24	–	–	R	XVM BR6F	0.177
			–	–	O	XVM BA6F	0.177
		~ 120	–	–	R	XVM GR6F	0.177
			–	–	O	XVM GA6F	0.177
		~ 230	–	–	R	XVM MR6F	0.177
			–	–	O	XVM MA6F	0.177
With buzzer integrated in base unit	Incandescent bulb, 5 W	≈ 24	R	–	–	XVM B1RSF	0.226
			O	–	–	XVM B1ASF	0.226
		~ 120	R	–	–	XVM G1RSF	0.226
			O	–	–	XVM G1ASF	0.226
		~ 230	R	–	–	XVM M1RSF	0.226
			O	–	–	XVM M1ASF	0.226
	LED	≈ 24	R	–	–	XVM B2RSF	0.173
			–	O	–	XVM B2A5SF	0.173
		~ 120	R	–	–	XVM G2RSF	0.173
			–	O	–	XVM G2A5SF	0.173
		~ 230	R	–	–	XVM M2RSF	0.173
			–	O	–	XVM M2A5SF	0.173
	“Flash” discharge tube	≈ 24	–	–	R	XVM BR6SF	0.187
			–	–	O	XVM BA6SF	0.187
		~ 120	–	–	R	XVM GR6SF	0.187
			–	–	O	XVM GA6SF	0.187
		~ 230	–	–	R	XVM MR6SF	0.187
			–	–	O	XVM MA6SF	0.187

(1) Signalling colour: R: red; O: orange.

Beacons and indicator banks

Beacons and indicator banks Ø 45 mm

Harmony type XVM Optimum

Pre-assembled and pre-cabled indicator banks



XVM ●●RG



XVM ●●RGS

Pre-assembled and pre-cabled indicator banks

With fixing base for mounting on vertical support (aluminium support tube + metal bracket)

Description	Light source (included)	Voltage (V)	Signalling colour (1)			Reference (2)	Weight kg
			Steady	Flashing	"Flash"		
With 2 illuminated units							
Without buzzer	Incandescent bulb, 5 W	~ 24	R-O	–	–	XVM B1RA (3)	0.392
			R-G	–	–	XVM B1RG (3)	0.392
		~ 120	R-O	–	–	XVM G1RA (3)	0.392
			R-G	–	–	XVM G1RG (3)	0.392
		~ 230	R-O	–	–	XVM M1RA (3)	0.392
			R-G	–	–	XVM M1RG (3)	0.392
	LED	~ 24	R-O	–	–	XVM B2RA (3)	0.395
			R-G	–	–	XVM B2RG (3)	0.395
			G	R	–	XVM B2R5G	0.395
			R	O	–	XVM B2RA5	0.395
			–	R-O	–	XVM B2R5A5	0.395
		~ 120	R-O	–	–	XVM G2RA (3)	0.395
			R-G	–	–	XVM G2RG (3)	0.395
			G	R	–	XVM G2R5G	0.395
			R	O	–	XVM G2RA5	0.395
			–	R-O	–	XVM G2R5A5	0.395
		~ 230	R-O	–	–	XVM M2RA (3)	0.395
			R-G	–	–	XVM M2RG (3)	0.395
			G	R	–	XVM M2R5G	0.395
			R	O	–	XVM M2RA5	0.395
			–	R-O	–	XVM M2R5A5	0.395
With buzzer integrated in base unit	Incandescent bulb, 5 W	~ 24	R-O	–	–	XVM B1RAS (3)	0.402
			R-G	–	–	XVM B1RGS (3)	0.402
		~ 120	R-O	–	–	XVM G1RAS (3)	0.402
			R-G	–	–	XVM G1RGS (3)	0.402
		~ 230	R-O	–	–	XVM M1RAS (3)	0.402
			R-G	–	–	XVM M1RGS (3)	0.402
	LED	~ 24	R-O	–	–	XVM B2RAS (3)	0.404
			R-G	–	–	XVM B2RGS (3)	0.404
			G	R	–	XVM B2R5GS	0.404
			R	O	–	XVM B2RA5S	0.404
			–	R-O	–	XVM B2R5A5S	0.404
		~ 120	R-O	–	–	XVM G2RAS (3)	0.404
			R-G	–	–	XVM G2RGS (3)	0.404
			G	R	–	XVM G2R5GS	0.404
			R	O	–	XVM G2RA5S	0.404
			–	R-O	–	XVM G2R5A5S	0.404
		~ 230	R-O	–	–	XVM M2RAS (3)	0.404
			R-G	–	–	XVM M2RGS (3)	0.404
			G	R	–	XVM M2R5GS	0.404
			R	O	–	XVM M2RA5S	0.404
			–	R-O	–	XVM M2R5A5S	0.404

(1) Signalling colour: R: red; O: orange; G: green.

(2) In the references, the colours are listed in same order as the mounting of the illuminated units (from top to bottom).

(3) For an indicator bank with fixing base for mounting on horizontal support (aluminium support tube + plastic fixing plate) add the letter H to the end of the reference. Example: **XVM B1RAH**.

Beacons and indicator banks

Beacons and indicator banks Ø 45 mm

Harmony type XVM Optimum

Pre-assembled and pre-cabled indicator banks



Pre-assembled and pre-cabled indicator banks

With fixing base for mounting on vertical support (aluminium support tube + metal bracket)

Description	Light source (included)	Voltage (V)	Signalling colour (1)			Reference (2)	Weight kg
			Steady	Flashing	"Flash"		
With 3 illuminated units							
Without buzzer	Incandescent bulb, 5 W	≈ 24	R-O-G	–	–	XVM B1RAG (3)	0.493
			O-G	–	R	XVM B1R6AG	0.454
		≈ 120	R-O-G	–	–	XVM G1RAG (3)	0.493
			O-G	–	R	XVM G1R6AG	0.454
		≈ 230	R-O-G	–	–	XVM M1RAG (3)	0.493
			O-G	–	R	XVM M1R6AG	0.454
	LED	≈ 24	R-O-G	–	–	XVM B2RAG (3)	0.443
			O-G	–	R	XVM B2R6AG	0.456
			R-G	O	–	XVM B2RA5G (3)	0.443
			G	R-O	–	XVM B2R5A5G	0.443
			G	O	R	XVM B2R6A5G	0.456
		≈ 120	R-O-G	–	–	XVM G2RAG (3)	0.443
			O-G	–	R	XVM G2R6AG	0.456
			R-G	O	–	XVM G2RA5G (3)	0.443
			G	R-O	–	XVM G2R5A5G	0.443
			G	O	R	XVM G2R6A5G	0.456
		≈ 230	R-O-G	–	–	XVM M2RAG (3)	0.443
			O-G	–	R	XVM M2R6AG	0.456
			R-G	O	–	XVM M2RA5G (3)	0.443
			G	R-O	–	XVM M2R5A5G	0.443
			G	O	R	XVM M2R6A5G	0.456
With buzzer integrated in base unit	Incandescent bulb, 5 W	≈ 24	R-O-G	–	–	XVM B1RAGS (3)	0.449
			O-G	–	R	XVM B1R6AGS	0.463
		≈ 120	R-O-G	–	–	XVM G1RAGS (3)	0.449
			O-G	–	R	XVM G1R6AGS	0.463
		≈ 230	R-O-G	–	–	XVM M1RAGS (3)	0.449
			O-G	–	R	XVM M1R6AGS	0.463
	LED	≈ 24	R-O-G	–	–	XVM B2RAGS (3)	0.453
			O-G	–	R	XVM B2R6AGS	0.466
			R-G	O	–	XVM B2RA5GS (3)	0.453
			G	R-O	–	XVM B2R5A5GS	0.453
			G	O	R	XVM B2R6A5GS	0.466
		≈ 120	R-O-G	–	–	XVM G2RAGS (3)	0.453
			O-G	–	R	XVM G2R6AGS	0.466
			R-G	O	–	XVM G2RA5GS(3)	0.453
			G	R-O	–	XVM G2R5A5GS	0.453
			G	O	R	XVM G2R6A5GS	0.466
		≈ 230	R-O-G	–	–	XVM M2RAGS (3)	0.453
			O-G	–	R	XVM M2R6AGS	0.466
			R-G	O	–	XVM M2RA5GS(3)	0.453
			G	R-O	–	XVM M2R5A5GS	0.453
			G	O	R	XVM M2R6A5GS	0.466

(1) Signalling colour: R: red; O: orange; G: green.

(2) In the references, the colours are listed in same order as the mounting of the illuminated units (from top to bottom).

(3) For an indicator bank with fixing base for mounting on horizontal support (aluminium support tube + plastic fixing plate) add the letter **H** to the end of the reference. Example: **XVM B1RAGH**.

Beacons and indicator banks

Beacons and indicator banks Ø 45 mm

Harmony type XVM Optimum

Pre-assembled and pre-cabled indicator banks

Pre-assembled and pre-cabled indicator banks

With fixing base for mounting on vertical support (aluminium support tube + metal bracket)

Description	Light source (included)	Voltage (V)	Signalling colour (1)			Reference (2)	Weight kg
			Steady	Flashing	“Flash”		
With 4 illuminated units							
Without buzzer	Incandescent bulb, 5 W	≈ 24	R-O-G-B	–	–	XVM B1RAGB (3)	0.486
		≈ 120	R-O-G-B	–	–	XVM G1RAGB (3)	0.486
		≈ 230	R-O-G-B	–	–	XVM M1RAGB (3)	0.486
	LED	≈ 24	R-O-G-B	–	–	XVM B2RAGB (3)	0.491
		≈ 120	R-O-G-B	–	–	XVM G2RAGB (3)	0.491
		≈ 230	R-O-G-B	–	–	XVM M2RAGB (3)	0.491
With buzzer integrated in base unit	Incandescent bulb, 5 W	≈ 24	R-O-G-B	–	–	XVM B1RAGBS (3)	0.496
		≈ 120	R-O-G-B	–	–	XVM G1RAGBS (3)	0.496
		≈ 230	R-O-G-B	–	–	XVM M1RAGBS (3)	0.496
	LED	≈ 24	R-O-G-B	–	–	XVM B2RAGBS (3)	0.501
		≈ 120	R-O-G-B	–	–	XVM G2RAGBS (3)	0.501
		≈ 230	R-O-G-B	–	–	XVM M2RAGBS (3)	0.501



XVM ●●RAGB



XVM ●●RAGBS

(1) Signalling colour: R: red; O: orange; G: green; B: blue.

(2) In the references, the colours are listed in same order as the mounting of the illuminated units (from top to bottom).

(3) For an indicator bank with fixing base for mounting on horizontal support (aluminium support tube + plastic fixing plate) add the letter **H** to the end of the reference. Example: **XVM B1RAGBH**.

Beacons and indicator banks

Beacons and indicator banks Ø 45 mm

Harmony type XVM Optimum

Customer assembled beacons and indicator banks, accessories



XVM C3●



XVM C21



XVM C29●



XVM Z02



XVM Z02T



DL1 ED●S



DL2 E●●●



DL6 B●

Customer assembled beacons and indicator banks

Description	Details	Voltage V	Colour	Reference	Weight kg
Illuminated units					
Lens units only for BA 15d base fitting bulb	Bulb not included, 5 W max.	Up to ≈ 230	Green	XVM C33	0.040
			Red	XVM C34	0.040
			Orange	XVM C35	0.040
			Blue	XVM C36	0.040
			Clear	XVM C37	0.040
Base mounting units					
Base unit and cover	Base unit without buzzer	–	White	XVM C21	0.055
	Base unit with integral 80 dB buzzer	≈ 24	White	XVM C29B	0.065
		~ 120	White	XVM C29G	0.065
		~ 230	White	XVM C29M	0.065
Base unit and cover + fixing base (250 mm support tube + bracket)	Base unit without buzzer	–	White	XVM C213T	0.298
	Base unit with integral 80 dB buzzer	≈ 24	White	XVM C29B3T	0.308
		~ 120	White	XVM C29G3T	0.308
		~ 230	White	XVM C29M3T	0.308

Fixing bases

Description	Length mm	Height under base unit mm	Colour	Reference	Weight kg
Ø 20 mm aluminium support tube + plastic fixing plate	100	78	White	XVM Z02	0.060
	250	228	White	XVM Z03	0.108
	400	378	White	XVM Z04	0.155
Ø 20 mm aluminium support tube + metal bracket	100	113	–	XVM Z02T	0.198
	250	263	–	XVM Z03T	0.242
	400	413	–	XVM Z04T	0.287

Light sources for lens units (1)

Description	Signalling	Sold in lots of	Voltage V	Colour	Unit reference	Weight kg
Incandescent bulbs, 5 W	Steady light	10	~ 24	–	DL1 EDBS	0.007
			~ 120	–	DL1 EDGS	0.007
			~ 230	–	DL1 EDMS	0.007
LEDs	□ Steady light: replace the ● by D in the references shown on the right. □ Flashing light: replace the ● by K in the references shown on the right.	1	~ 24	White	DL2 E●B1	0.009
				Green	DL2 E●B3	0.009
				Red	DL2 E●B4	0.009
				Blue	DL2 E●B6	0.009
				Orange	DL2 E●B8	0.009
		1	~ 120	White	DL2 E●G1	0.009
				Green	DL2 E●G3	0.009
				Red	DL2 E●G4	0.009
				Blue	DL2 E●G6	0.009
				Orange	DL2 E●G8	0.009
		1	~ 230	White	DL2 E●M1	0.009
				Green	DL2 E●M3	0.009
				Red	DL2 E●M4	0.009
				Blue	DL2 E●M6	0.009
				Orange	DL2 E●M8	0.009
"Flash" discharge tubes, 0.8 Joule	"Flash"	1	~ 24	–	DL6 BB	0.022
			~ 120	–	DL6 BG	0.022
			~ 230	–	DL6 BM	0.022

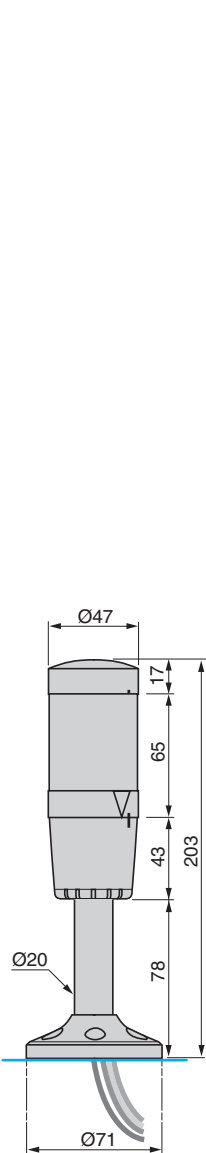
(1) All light sources are push-and-turn (15°) mounting in a BA 15d base within the illuminated units.

Accessories for pre-assembled/pre-cabled and customer assembled beacons and indicator banks

Description	Details	Reference	Weight kg
Cover only	White	XVM Z081	–
Mounting tool	For fitting and removal of incandescent bulbs type DL1	ZBZ X13	–

Pre-assembled & pre-cabled beacons

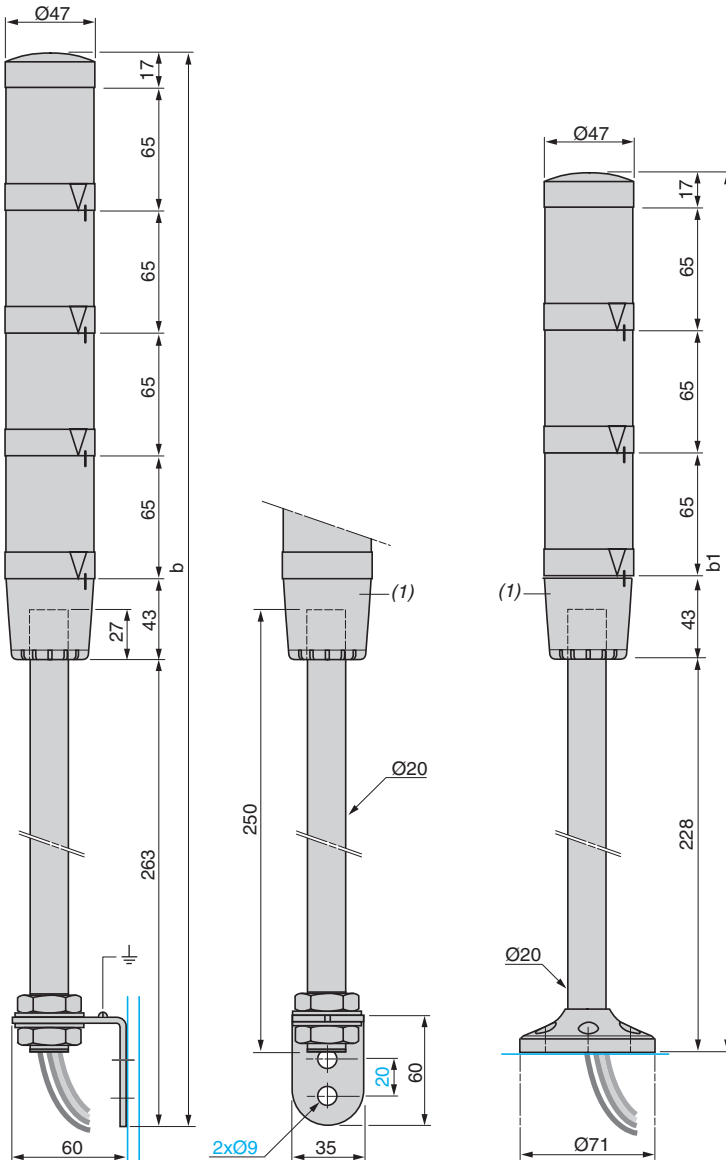
With fixing base for mounting on horizontal support (support tube + fixing plate)



Pre-assembled and pre-cabled indicator banks

With fixing base for mounting on vertical support (support tube + bracket)

With fixing base for mounting on horizontal support (support tube + fixing plate)

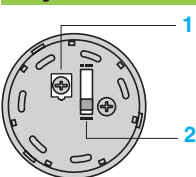


(1) Base unit with or without buzzer.

Height of pre-assembled and pre-cabled indicator banks

No. of illuminated units	b (mm)	b1 (mm)
1 unit	392	—
2 units	457	353
3 units	522	418
4 units	587	—

Adjustment of audible signal on buzzer type unit



Base unit with integral buzzer (viewed from above)

1 Volume adjustment potentiometer: 0 to 80 dB. Use either a cross headed or flat tipped screwdriver.

2 2-position selector for type of audible signal:

— continuous tone

- - - intermittent tone

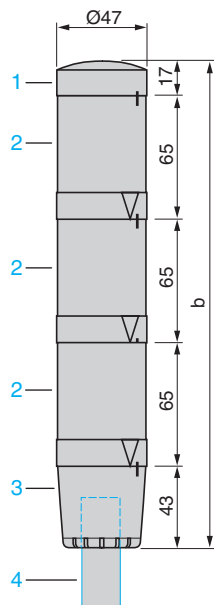
Beacons and indicator banks

Beacons and indicator banks Ø 45 mm

Harmony type XVM Optimum

Customer assembled indicator banks

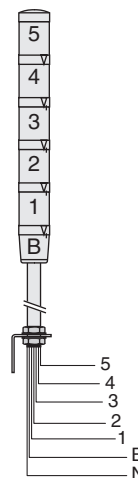
Customer assembled indicator banks



- 1 Cover
- 2 Illuminated unit
- 3 Base unit (with or without buzzer)
- 4 Fixing base (see below)

Number of illuminated units (ref. 2)	b
1	125
2	190
3	255
4	320
5	385

Connection scheme



Indicator bank with buzzer

(4 illuminated units max.)

4: 4th illuminated unit (yellow wire)

3: 3rd illuminated unit (green wire)

2: 2nd illuminated unit (white wire)

1: 1st illuminated unit (blue wire)

N: common (black wire)

B: Buzzer (grey wire)

Indicator bank without buzzer

5: 5th illuminated unit (red wire)

4: 4th illuminated unit (yellow wire)

3: 3rd illuminated unit (green wire)

2: 2nd illuminated unit (white wire)

1: 1st illuminated unit (blue wire)

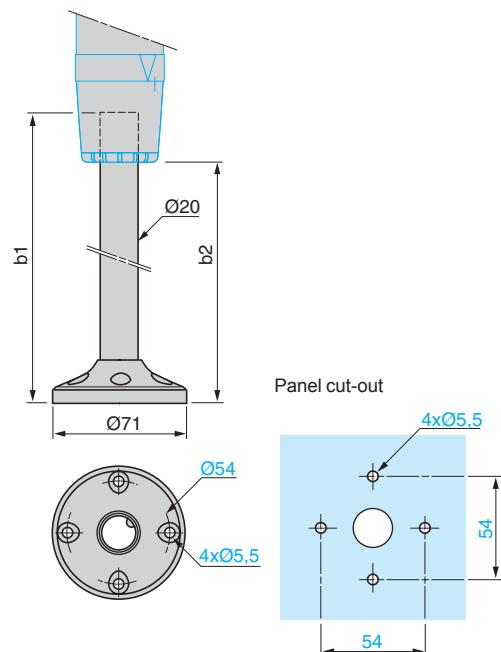
N: common (black wire)

Maximum capacity for wiring through support tube:

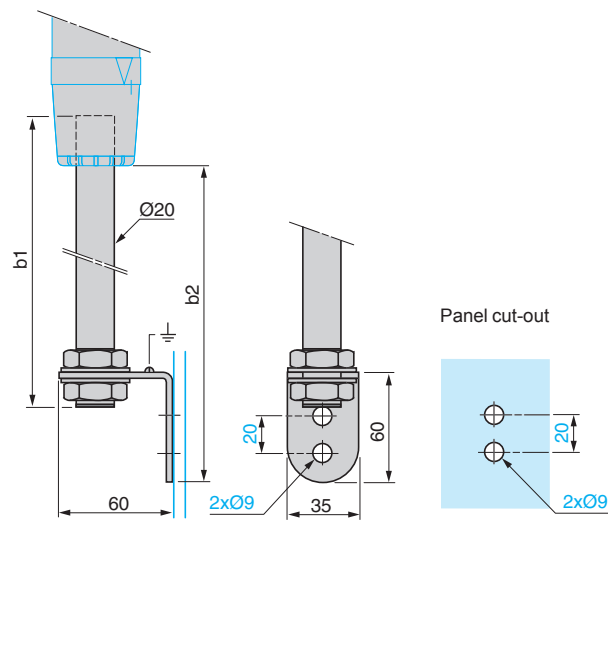
- 6 wires x 1 mm²,
- 5 wires x 1.5 mm²

Fixing bases

XVM Z0●, for mounting on horizontal support



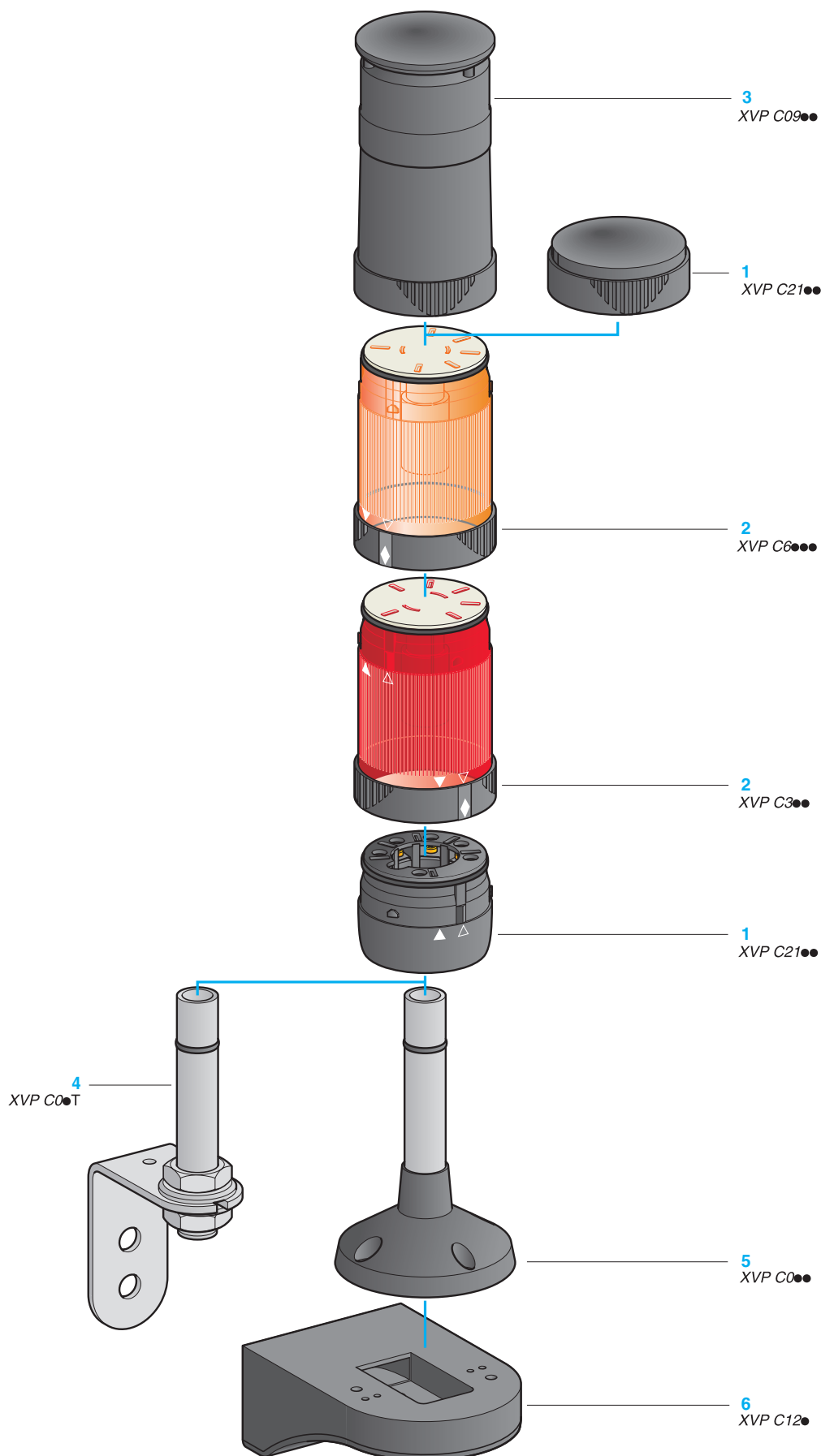
XVM Z0●T, for mounting on vertical support



Support tube length	b1 (tube + plate)	b2 (height under base unit)	Support tube length	b1 (tube + bracket)	b2 (height under base unit)
100	105	78	100	140	113
250	255	228	250	290	263
400	405	378	400	440	413

Beacons and indicator banks

Indicator banks Ø 50 mm,
Harmony type XVP C Universal (customer assembly, up to 5 units)



Indicator banks XVP C are visual or audible signalling units for indicating, throughout 360° and at a distance, the various states or operation sequences of a machine or installation.

Their reduced diameter (50 mm) makes them particularly suitable for use on small equipment.

In addition, the availability of two versions (aesthetic black or cream), makes them ideal for use in all sectors of activity: light industry, electronic, tertiary sector, food/drink processing.

The indicator bank

Customer assembled product

Variable composition assembly of illuminated and audible units which are supplied as separate items (assembly by user).

The bank comprises:

- 1 a base unit with bottom cable entry, a cover for the top unit,
- 2 1 to 5 illuminated units with steady, flashing or "flash" light signalling (colours: green, red, orange, blue, clear or yellow).
- 3 or 1 audible unit (always mounted at the top of the bank) + 4 illuminated units.

- The illuminated or audible units stack vertically and are easily locked and unlocked using an integral clamping ring. Electrical connections between each unit are made automatically.

- For indicator banks XVP C, several illuminated "flash" units can be mounted.

- The flashing illuminated units are only available in the LED version and incorporate BA 15d base mounted flashing LEDs.

Accessories

- 4 Threaded aluminium support tube with fixing bracket, for heights beneath the base unit of 77, 227 or 377 mm.
- 5 Aluminium support tube with integral black or cream fixing base, for heights beneath the base unit of 89, 237 or 387 mm, for direct mounting on the machine or on a vertical support 6.

Installation

Mounting

- Base unit fixed directly onto panel, or
- using support tube with integral fixing base, or
- using threaded support tube with metal fixing bracket, or
- using support tube with integral fixing base, mounted on a fixing plate for use on a vertical support.

Cabling

By means of terminal block incorporated in base unit. The screw and captive cable clamp terminals are protected to prevent any accidental contact with live parts. Cream coloured base units are available for use with eyelet tags.

Environment characteristics

Product certifications Standard version			CSA, CE marking, cULus
Conformity to standards			EN/IEC 60947-5-1
Protective treatment Standard version			"TC"
Ambient air temperature	For storage	°C	- 40...+ 70
	For operation	Illuminated units with steady light signalling	°C - 25...+ 50 with 7 W incandescent bulb - 25...+ 50 with LED
		Illuminated "flash" units (discharge tube) Audible units	°C - 25...+ 50
Electric shock protection conforming to IEC 61140	Mounted on support tube		Class I
	Mounted on base unit		Class II
Degree of protection Conforming to IEC 60529			- IP 65 for illuminated units - IP 43 for audible units
Material	Illuminated units		Polycarbonate and Polyamide
	Base unit and cover		Acrylic Butadiene-Styrene + Polycarbonate and Polyamide
	Support tube + fixing plate		Aluminium and Acrylic Butadiene-Styrene + Polycarbonate

Electrical characteristics

Rated insulation voltage (Ui)	Conforming to IEC 60947-1	V	250
Voltage limits	Conforming to IEC 60947-5-1	V	0.85 to 1.10 Un (Un: nominal voltage)
Consumption	LED unit	Steady light signalling	mA \approx 24 V: < 47
			~ 120 V: < 17
			~ 230 V: < 17
		Flashing light signalling	mA \approx 24 V: < 47
			~ 120 V: < 17
			~ 230 V: < 17
	Illuminated "flash" unit (discharge tube)	On power-up	mA \approx 24 V: \leq 100
			mA ~ 120 V: \leq 20
			mA ~ 230 V: \leq 11
	Audible units		mA \approx 24 V: \leq 15
			mA ~ 120 V: \leq 15
			mA ~ 230 V: \leq 12
Rated impulse withstand voltage	Conforming to IEC 60947-1	kV	U imp = 4
Light source	Illuminated units with steady or flashing light signalling		LEDs: degree of pollution 2
			Incandescent bulbs with BA 15d base fitting, maximum power 7 W
Illuminating power	Illuminated units with steady light signalling	cds	2.4 with clear lens unit (7 W incandescent bulb)
	Illuminated "flash" units (discharge tube)	cds	1.2 (24 V) with clear lens unit (0.3 J tube), 5 (120...230 V) with clear lens unit (0.6 J tube)
Audible unit	Continuous or intermittent tone	dB	Adjustable: 85 \pm 3 max., 55 \pm 3 min. at 1 m
	Fundamental frequency	kHz	10 adjustable levels
Terminal referencing	Common to all 5 units		1 terminal referenced -/C
	Depending on number of units		1 or 5 terminals referenced +/1 to +/5
Connection	Maximum clamping capacity on protected, ready-to-tighten, screw and captive cable clamp terminals	mm ²	1 x 1.5 with cable end
Frequency of illuminated units	Illuminated "flash" units (discharge tube)	Hz	0.6...2
	Flashing illuminated units	Hz	1
Service life in rapidly ageing environment	Illuminated "flash" units (discharge tube) Audible units	H	> 1000, continuous (climatic cycle - 25 °C...+ 50 °C)

Beacons and indicator banks

Indicator banks Ø 50 mm,

Harmony type XVP C Universal (customer assembly, up to 5 units)

Illuminated units

530419



XVP C3●

530420



XVP C3●W

Illuminated units with steady or flashing light signalling for BA 15d bulb or LED

Description	Light source, to be ordered separately	Colour	Reference	Weight kg
With black clamping ring	Incandescent bulb 7 W max. 250 V max. or LED	Green	XVP C33	0.100
		Red	XVP C34	0.100
		Orange	XVP C35	0.100
		Blue	XVP C36	0.100
		Clear	XVP C37	0.100
		Yellow	XVP C38	0.100
With cream clamping ring	Incandescent bulb 7 W max. 250 V max. or LED	Green	XVP C33W	0.100
		Red	XVP C34W	0.100
		Orange	XVP C35W	0.100
		Blue	XVP C36W	0.100
		Clear	XVP C37W	0.100
		Yellow	XVP C38W	0.100

BA 15d bulbs and LEDs

Description	Characteristics		Sold in lots of	Unit reference	Weight kg
Incandescent bulbs BA 15d base fitting	24 V	4 W	10	DL1 BEBS	0.090
	120 V	5 W	10	DL1 BEGS	0.090
	230 V	5 W	10	DL1 BEMS	0.090
	12 V	7 W	10	DL1 BEJ	0.090
	24 V	6.5 W	10	DL1 BEB	0.090
	48 V	6 W	10	DL1 BEE	0.090
	120 V	7 W	10	DL1 BEG	0.090
	230 V	7 W	10	DL1 BEM	0.090
LEDs BA 15d base fitting Protected LED	~ 24 V	White	1	DL1 BDB1	0.015
		Green	1	DL1 BDB3	0.015
		Red	1	DL1 BDB4	0.015
		Orange	1	DL1 BDB5	0.015
		Blue	1	DL1 BDB6	0.015
		Yellow	1	DL1 BDB8	0.015
	~ 120 V	White	1	DL1 BDG1	0.015
		Green	1	DL1 BDG3	0.015
		Red	1	DL1 BDG4	0.015
		Orange	1	DL1 BDG5	0.015
		Blue	1	DL1 BDG6	0.015
		Yellow	1	DL1 BDG8	0.015
	~ 230 V	White	1	DL1 BDM1	0.015
		Green	1	DL1 BDM3	0.015
		Red	1	DL1 BDM4	0.015
		Orange	1	DL1 BDM5	0.015
		Blue	1	DL1 BDM6	0.015
		Yellow	1	DL1 BDM8	0.015
Flashing LEDs BA 15d base fitting Protected LED	~ 24 V	White	1	DL1 BKB1	0.015
		Green	1	DL1 BKB3	0.015
		Red	1	DL1 BKB4	0.015
		Orange	1	DL1 BKB5	0.015
		Blue	1	DL1 BKB6	0.015
		Yellow	1	DL1 BKB8	0.015
	~ 120 V	White	1	DL1 BKG1	0.015
		Green	1	DL1 BKG3	0.015
		Red	1	DL1 BKG4	0.015
		Orange	1	DL1 BKG5	0.015
		Blue	1	DL1 BKG6	0.015
		Yellow	1	DL1 BKG8	0.015
	~ 230 V	White	1	DL1 BKM1	0.015
		Green	1	DL1 BKM3	0.015
		Red	1	DL1 BKM4	0.015
		Orange	1	DL1 BKM5	0.015
		Blue	1	DL1 BKM6	0.015
		Yellow	1	DL1 BKM8	0.015

Beacons and indicator banks

Indicator banks Ø 50 mm,

Harmony type XVP C Universal (customer assembly, up to 5 units)

Illuminated and audible units

530423



XVP C6●●

530424



XVP C6●●W

Illuminated "flash" units with discharge tube

Description	Voltage	Colour	Reference	Weight kg
With black clamping ring	"Flash" discharge tube (1 Joule) ~ 24 V	Green	XVP C6B3	0.120
		Red	XVP C6B4	0.120
		Orange	XVP C6B5	0.120
		Blue	XVP C6B6	0.120
		Clear	XVP C6B7	0.120
		Yellow	XVP C6B8	0.120
	"Flash" discharge tube (0.6 Joules) ~ 120 V	Green	XVP C6G3	0.115
		Red	XVP C6G4	0.115
		Orange	XVP C6G5	0.115
		Blue	XVP C6G6	0.115
		Clear	XVP C6G7	0.115
		Yellow	XVP C6G8	0.115
	"Flash" discharge tube (0.6 Joules) ~ 230 V	Green	XVP C6M3	0.115
		Red	XVP C6M4	0.115
		Orange	XVP C6M5	0.115
		Blue	XVP C6M6	0.115
		Clear	XVP C6M7	0.115
		Yellow	XVP C6M8	0.115
With cream clamping ring	"Flash" discharge tube (1 Joule) ~ 24 V	Green	XVP C6B3W	0.120
		Red	XVP C6B4W	0.120
		Orange	XVP C6B5W	0.120
		Blue	XVP C6B6W	0.120
		Clear	XVP C6B7W	0.120
		Yellow	XVP C6B8W	0.120
	"Flash" discharge tube (0.6 Joules) ~ 120 V	Green	XVP C6G3W	0.115
		Red	XVP C6G4W	0.115
		Orange	XVP C6G5W	0.115
		Blue	XVP C6G6W	0.115
		Clear	XVP C6G7W	0.115
		Yellow	XVP C6G8W	0.115
	"Flash" discharge tube (0.6 Joules) ~ 230 V	Green	XVP C6M3W	0.115
		Red	XVP C6M4W	0.115
		Orange	XVP C6M5W	0.115
		Blue	XVP C6M6W	0.115
		Clear	XVP C6M7W	0.115
		Yellow	XVP C6M8W	0.115

530425



XVP C09●

530426



XVP C09●W

Audible units

Description	Voltage	Colour	Reference	Weight kg
Buzzer, adjustable 55...85 dB at 1 m	~ 24 V	Black	XVP C09B	0.153
	~ 120 V	Black	XVP C09G	0.153
	~ 230 V	Black	XVP C09M	0.153
	~ 24 V	Cream	XVP C09BW	0.153
	~ 120 V	Cream	XVP C09GW	0.153
	~ 230 V	Cream	XVP C09MW	0.153

Beacons and indicator banks

Indicator banks Ø 50 mm,
Harmony type XVP C Universal (customer assembly, up to 5 units)
Base units, covers and accessories



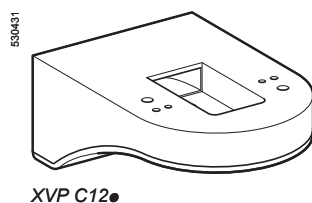
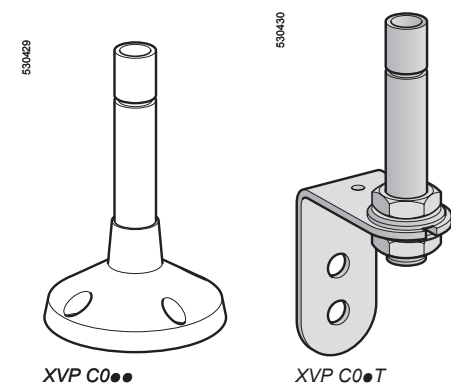
Base units

Base units for direct or tube fixing

Description	Colour	Reference	Weight kg
Base unit + cover for bared wires or wires with cable end	Black	XVP C21	0.125
	Cream	XVP C21W	0.125
Base unit + cover for eyelet tags	Cream	XVP C21WR	0.125

Accessories

Description	Height under base unit mm	Reference	Weight kg
Aluminium support tube with integral black fixing base	89	XVP C02	0.112
	237	XVP C03	0.173
	387	XVP C04	0.253
Aluminium support tube with integral cream fixing base	89	XVP C02W	0.112
	237	XVP C03W	0.173
	387	XVP C04W	0.253
Threaded aluminium support tube + stainless steel fixing bracket	77	XVP C02T	0.245
	227	XVP C03T	0.306
	377	XVP C04T	0.386



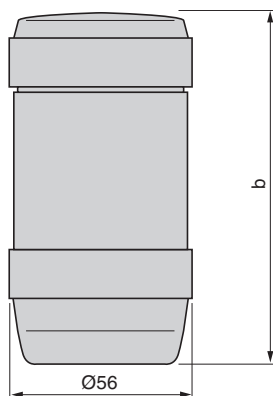
Description	Application	Reference	Weight kg
Fixing plate for use on vertical support, black	For mounting XVP C0●● support tubes with integral fixing base	XVP C12	0.083
Fixing plate for use on vertical support, cream	For mounting XVP C0●● support tubes with integral fixing base	XVP C12W	0.083
Bulb mounting and removal tool	–	XVP CX13	0.015

Beacons and indicator banks

Indicator banks Ø 50 mm,
Harmony type XVP C Universal (customer assembly, up to 5 units)

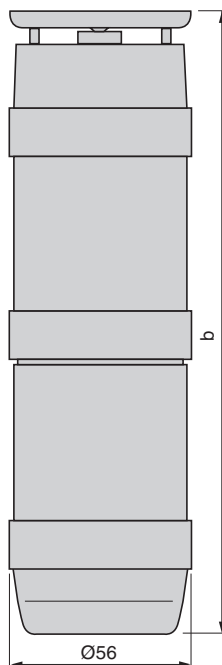
Indicator banks XVP C●●●

Without audible unit



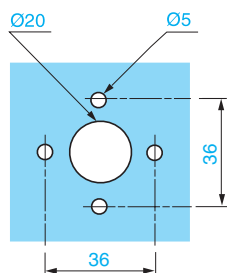
Number of illuminated units	b
1	108
2	170
3	232
4	294
5	356

With audible unit



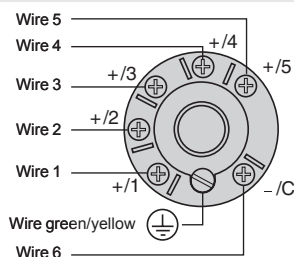
Number of units: Illuminated	+ Audible	b
0	+ 1	129
1	+ 1	194
2	+ 1	256
3	+ 1	318
4	+ 1	380

Panel cut-out for direct fixing (on base unit XVP C21●●)

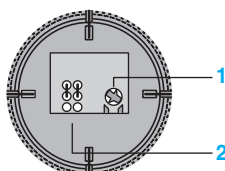


Installation

Connections



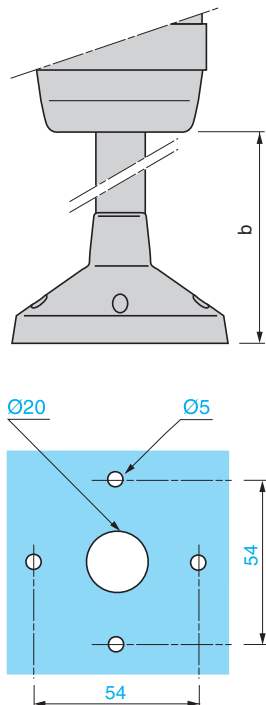
Adjustment of audible signal for buzzers type XVP C09●



- 1 Volume adjustment potentiometer: 55...85 dB. Use either a cross headed or flat tipped screwdriver.
- 2 Adjustment of type of audible signal according to position of 2 links. Use flat-nose pliers.
- 3 10 configurations are possible, see table below. Factory set on position 5: continuous tone.

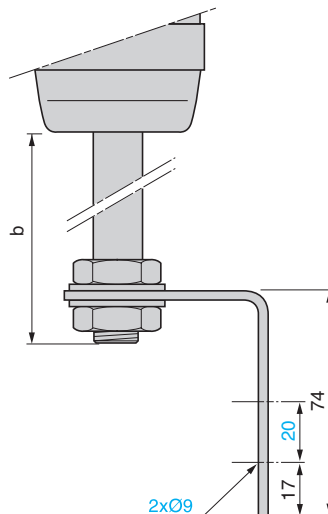
3	Position of links	Type of audible signal	Position of links	Type of audible signal
1	5 6 1 2		6	
2	5 6 1 2		7	
3	5 6 1 2		8	
4	5 6 1 2		9	
5	5 6 1 2		10	

Support tube XVP C0●● with integral fixing base



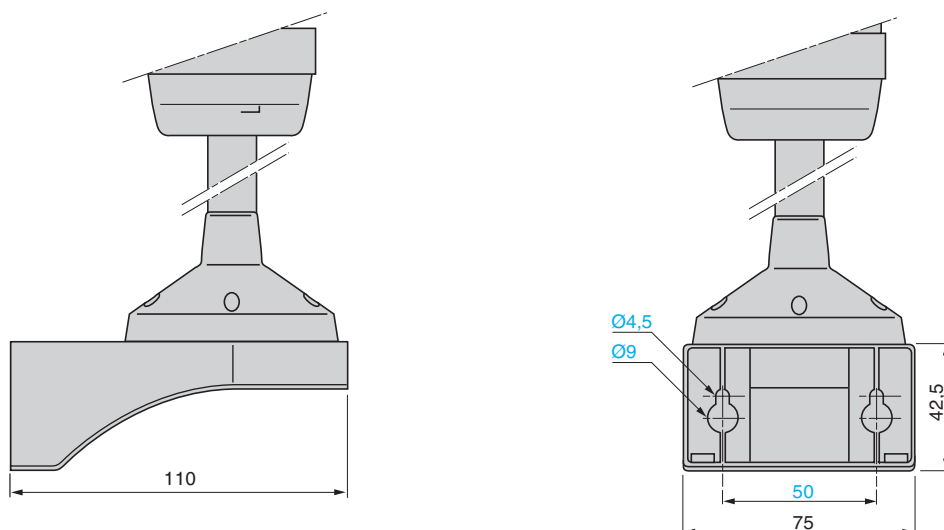
Height under base unit	b
XVP C02●	89
XVP C03●	237
XVP C04●	387

Threaded support tube XVP C0●T with metal fixing bracket



Height under base unit	b
XVP C02T	77
XVP C03T	227
XVP C04T	377

Mounting using fixing plate XVP C12● for use on a vertical support



Note: support tube XVP C0●● with integral fixing base must be used.

Beacons and indicator banks

Beacons and indicator banks Ø 70 mm

Harmony type XVE Optimum

Description

Illuminated beacon

The illuminated beacon is a complete product comprising:

- 1 A screw fixing cover.
- 2 One coloured illuminated unit (green, red, orange, blue or clear).
- 3 A base unit with terminal block and bottom cable entry.
- 4 A monobloc fixing base for mounting on machine.

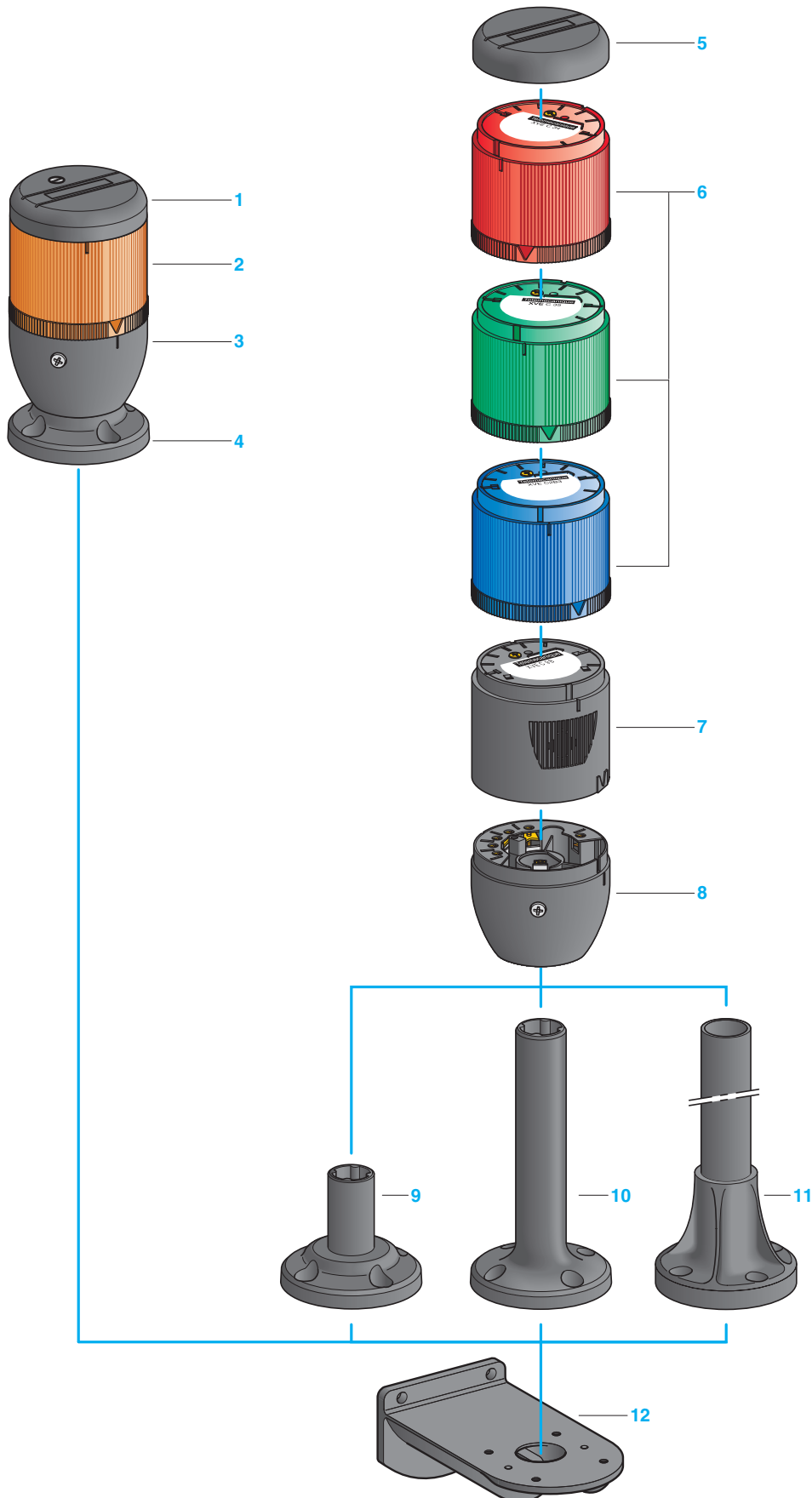
Indicator bank

The indicator bank is a customer assembled product using:

- 5 A cover.
- 6 1 to 5 coloured illuminated units (green, red, orange, blue or clear) with a choice of 3 types of signalling (steady, flashing or "flash").
- 7 1 audible unit.
- 8 A base unit (IP 42 or IP 54) with terminal block and bottom cable entry.
- 9 A plastic fixing base, 20 mm high.
- 10 A plastic fixing base, 100 mm high.
- 11 An aluminium support tube glued into a plastic fixing plate, for heights beneath the base unit of 80, 380 or 780 mm.

To be ordered separately:

- 12 Fixing plate for mounting on vertical support.



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 glued into a plastic fixing plate.

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 4/29.

Environment characteristics

Degree of protection	Conforming to IEC 60529		<ul style="list-style-type: none"> ■ IP 42 in vertical position, IP 40 for other positions ■ IP 54 for reinforced protection version: <ul style="list-style-type: none"> □ for all mounting positions using fixing base XVE Z13, □ only in vertical position for other heights of fixing base
Product certifications			UL, CSA, CCC
Approval			CE
Conformity to standards			IEC/EN 60947-1, IEC/EN 60947-5-1
Ambient air temperature	For storage	°C	- 40...+ 70
	For operation	°C	- 25...+ 55
Electric shock protection	Mounted on plastic support tube		Class I
Conforming to IEC 61140	Mounted on aluminium support tube		Class I
Protective treatment			Standard version: "TC"
Electronic components protection (LED and flash)	By integral fuse in series on the common	A	0.63 (\approx 24 V)
		A	0.16 (\sim 120...240 V)

Electrical characteristics

Illuminated units			With bulb, not included (lens unit only)	With integral LED, steady light signalling	With integral LED, flashing light signalling	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	V	0.85...1.10 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 \approx 24 V	mA	Depending on bulb used	< 25	< 30	< 145 on \approx 24 V < 85 on \approx 24 V
	On \sim 120 V	mA	Depending on bulb used	< 25	< 25	< 35
	On \sim 230/240 V	mA	Depending on bulb used	< 25	< 25	< 25
Rated impulse withstand voltage	Conforming to IEC 60947-1	kV	U imp = 4			
Illuminating power	Average value for all colours	cds/m ²	640	800	800	–
Flashing frequency	Nominal value	Hz	–	–	1	1
Audible units						
Consumption	On \approx 24 V	mA	< 15			
	On \sim 120 V	mA	< 25			
	On \sim 230/240 V	mA	< 25			
Power	Continuous tone	dB	85 at 1 m			
	Fundamental frequency	kHz	2.6 for continuous tone			
Connection of illuminated and audible units						
Terminal referencing			1 terminal referenced “C” common to all 5 units 5 terminals referenced 1 to 5			
Connection	Maximum clamping capacity on protected, ready-to-tighten, screw and captive cable clamp terminals	mm ²	1 x 1.5 with cable end			

Beacons and indicator banks

Beacons and indicator banks Ø 70 mm

Harmony type XVE Optimum

Illuminated beacons



XVE L3●●



XVE L2●●



XVE L6●●

Illuminated beacons with steady light signalling

Description	Light source	Supply voltage	Colour of lens unit	Reference	Weight kg
Complete unit comprising: - 1 screw fixing cover, - 1 illuminated unit, - 1 base unit, - 1 short fixing base	Bulb, not included, 5 W max.	≈ 240 V max.	Green	XVE L33	0.245
			Red	XVE L34	0.245
			Orange	XVE L35	0.245
			Blue	XVE L36	0.245
			Clear	XVE L37	0.245
	Illuminated unit with integral LED	≈ 24 V	Green	XVE L2B3	0.250
			Red	XVE L2B4	0.250
			Orange	XVE L2B5	0.250
			Blue	XVE L2B6	0.250
			Clear	XVE L2B7	0.250
		~ 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
		~ 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 beacons with “flash” light signalling

Description	Light source	Supply voltage	Colour of lens unit	Reference	Weight kg
Complete unit comprising: - 1 screw fixing cover, - 1 illuminated unit, - 1 base unit, - 1 short fixing base	Illuminated unit with 1 Joule “flash” discharge tube	≈ 24 V	Green	XVE L6B3	0.270
			Red	XVE L6B4	0.270
			Orange	XVE L6B5	0.270
			Blue	XVE L6B6	0.270
			Clear	XVE L6B7	0.270
		~ 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
		~ 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

Beacons and indicator banks

Beacons and indicator banks Ø 70 mm

Harmony type XVE Optimum

Indicator banks for customer assembly



XVE C3●



XVE C2●●●



XVE C5●●●



XVE C6●●●



XVE C9●

Illuminated units with steady light signalling

Description	Light source	Supply voltage	Colour of lens unit	Reference	Weight kg
Lens units only for BA 15d base fitting bulb	Bulb, not included, 5 W max.	≈ 240 V max.	Green	XVE C33	0.072
			Red	XVE C34	0.072
			Orange	XVE C35	0.072
			Blue	XVE C36	0.072
			Clear	XVE C37	0.072
Illuminated units	Integral LED	≈ 24 V	Green	XVE C2B3	0.077
			Red	XVE C2B4	0.077
			Orange	XVE C2B5	0.077
			Blue	XVE C2B6	0.077
			Clear	XVE C2B7	0.077
		~ 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
		~ 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 signalling

Illuminated units	Integral LED	≈ 24 V	Green	XVE C5B3	0.077
			Red	XVE C5B4	0.077
			Orange	XVE C5B5	0.077
			Blue	XVE C5B6	0.077
			Clear	XVE C5B7	0.077
		~ 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
		~ 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

Illuminated units with "flash" light signalling

Illuminated units	"Flash" discharge tube, 1 Joule	≈ 24 V	Green	XVE C6B3	0.094
			Red	XVE C6B4	0.094
			Orange	XVE C6B5	0.094
			Blue	XVE C6B6	0.094
			Clear	XVE C6B7	0.094
		~ 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
		~ 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

Audible units

Description	Power	Supply voltage	Reference	Weight kg
Buzzer, single tone	85 dB at 1 metre	≈ 24 V	XVE C9B	0.090
		~ 120 V	XVE C9G	0.090
		~ 230 V/240 V	XVE C9M	0.090



XVE C21



XVE C21P



XVE Z13

XVD C02



XVB Z02

XVB Z03/Z04



XVB Z01

XVB C12



XVE Z081



XVE Z082



XVE Z083



DL1 BE•S

Base units and covers

Indicator bank usage	Composition	Reference	Weight kg
Indoors (IP 42)	Base unit and cover	XVE C21	0.110

Outdoors (IP 54)	Base unit with seal + screw fixing cover + kit comprising 5 seals for lens units and buzzer + 1 seal for fixing base XVE Z13	XVE C21P	0.120
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Fixing components

Description	Height under base unit mm	Colour	Reference	Weight kg
Plastic fixing bases	20	Black	XVE Z13	0.040
	100	Black	XVD C02	0.056
Fixing bases comprising: Ø 25 mm aluminium support tube glued into black plastic fixing plate	80	Black aluminium	XVB Z02	0.110
		Aluminium	XVB Z02A	0.110
	380	Black aluminium	XVB Z03	0.200
		Aluminium	XVB Z03A	0.200
	780	Black aluminium	XVB Z04	0.325
		Aluminium	XVB Z04A	0.325

Description	For	Material	Reference	Weight kg
Fixing plate	Ø 25 mm aluminium support tube (to be glued into fixing plate)	Plastic	XVB Z01	0.050
Fixing plate for use on vertical support	Mounting beacons and indicator banks (requires a fixing base)	Zamak	XVB C12	0.380

Separate components for beacons and indicator banks

Description	For use with	Composition	Reference	Weight kg
Cover	Beacons and indicator banks	—	XVE Z081	0.010

IP 54 sealing kit	Indicator banks	5 toric seals for lens units + base unit seal + 1 fixing plate seal + 1 seal for fixing base XVE Z13 + screw fixing cover	XVE Z082	0.015
	Beacons	1 lens unit seal + 1 base unit seal + 2 fixing base seals	XVE Z083	0.005

Description	Electrical characteristics	Sold in lots of	Reference	Weight kg
Incandescent bulbs with BA 15d base fitting for lens units type XVE L3• and XVE C3•	5 W ≈ 24 V	10	DL1 BEBS	0.100
	5 W ≈ 120 V	10	DL1 BEGS	0.100
	5 W ≈ 230 V	10	DL1 BEMS	0.100

Beacons and indicator banks

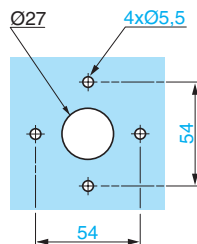
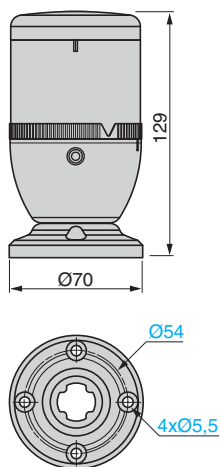
Beacons and indicator banks Ø 70 mm

Harmony type XVE Optimum

Illuminated beacons

Illuminated beacons XVE L●●●

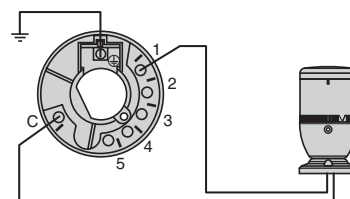
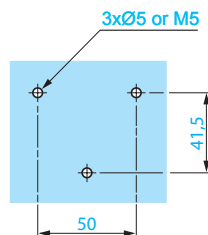
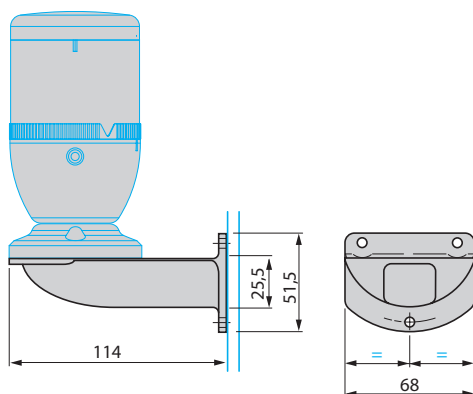
Panel cut-out for mounting directly on fixing base



Mounting on fixing plate XVB C12

Vertical support panel drillings for mounting fixing plate XVB C12

Wiring scheme



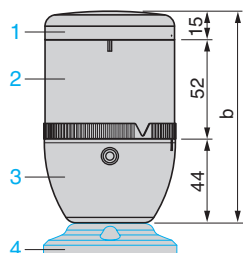
Beacons and indicator banks

Beacons and indicator banks Ø 70 mm

Harmony type XVE Optimum

Indicator banks

Indicator banks XVE C●●●



- 1 Cover XVE Z081 or cover XVE C21/C21P (with base unit),
- 2 Illuminated units XVE C●● and/or audible unit XVE C9●,
- 3 Base unit XVE C21/C21P,
- 4 Fixing bases (see below).

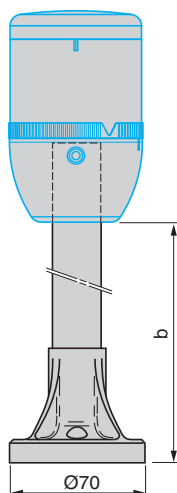
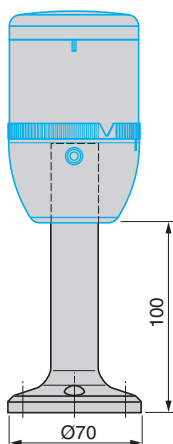
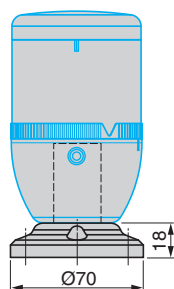
Height of indicator bank	
Number of units (ref. 2)	b
1 unit	111
2 units	163
3 units	215
4 units	267
5 units	319

Fixing bases (height under base unit)

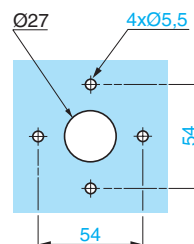
XVE Z13

XVD C02

XVB Z0●●



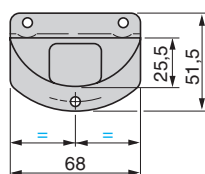
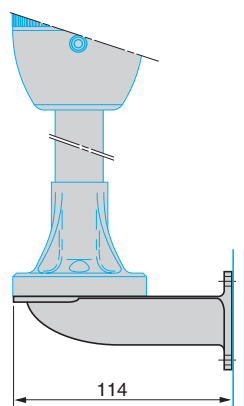
Panel cut-out for mounting directly on fixing base



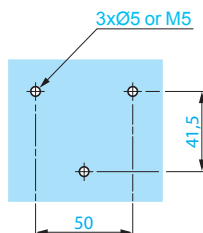
Height under base unit

Fixing base	b
XVB Z02/Z02A	80
XVB Z03/Z03A	380
XVB Z04/Z04A	780

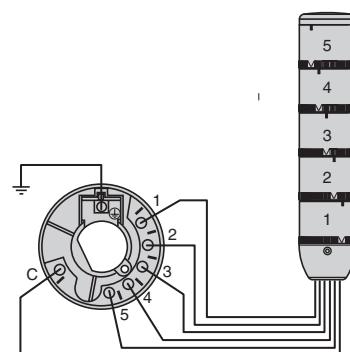
Mounting on fixing plate XVB C12



Vertical support panel drillings for mounting fixing plate XVB C12



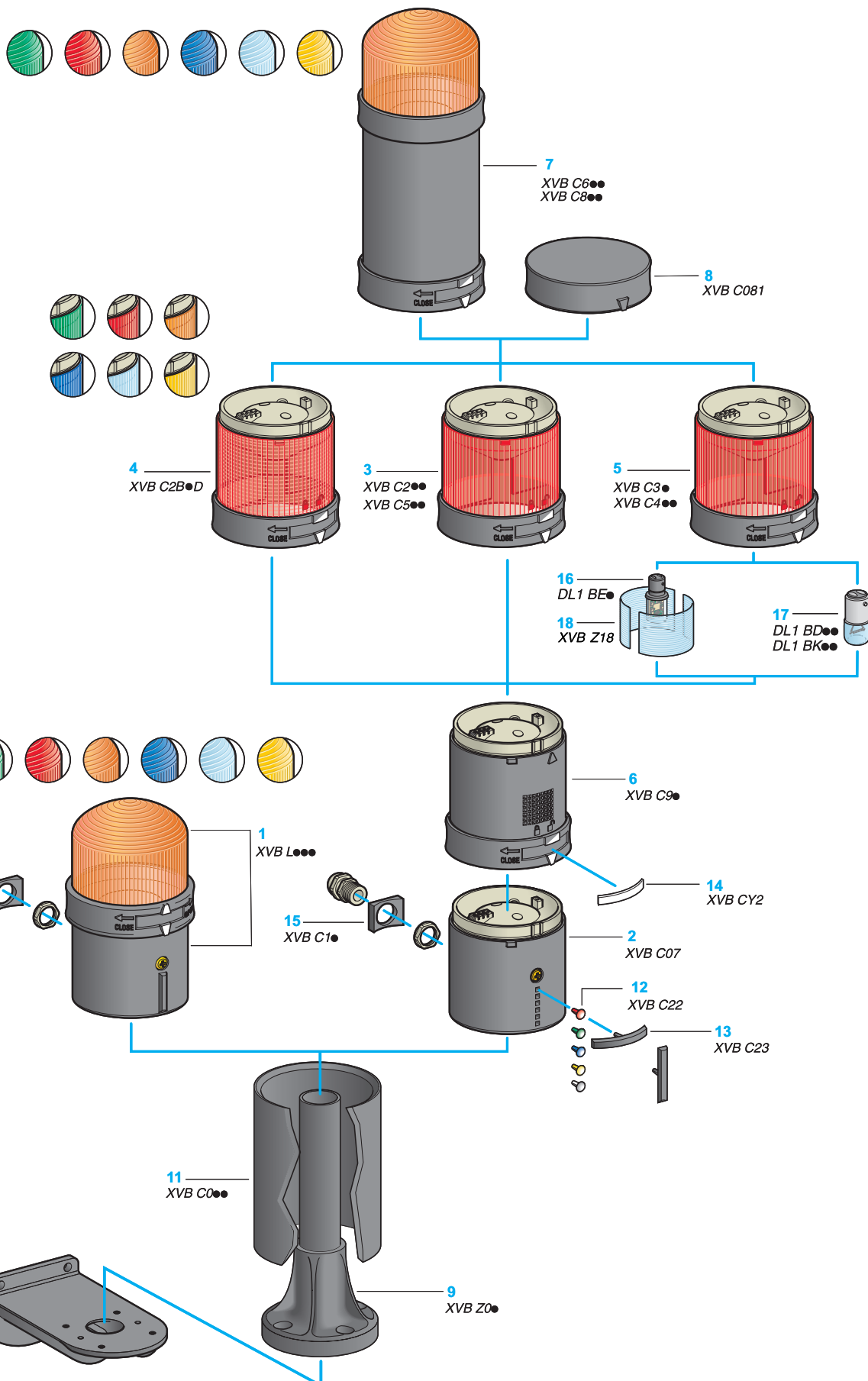
Wiring scheme



Beacons and indicator banks

Beacons and indicator banks Ø 70 mm

Harmony type XVB Universal



Illuminated beacon

Beacons and indicator banks type XVB are visual or audible signalling units used for indicating, throughout 360° and at a distance, the various states or operation sequences of a machine or installation. Examples: start, stop machine, no material, call technical staff, fault signalling, etc.

Complete product XVB L

Ready assembled **1** with a single illuminated signalling unit:

- ☐ steady light (with incandescent bulb or LED),
- ☐ flashing light (with incandescent bulb or LED),
- ☐ or "flash" (with discharge tube).

The **XVB L** beacon comprises:

- A base unit with a removable terminal block and bottom or side cable entry.
- One coloured illuminated unit (green, red, orange, blue, clear or yellow).

Indicator bank

Customer assembled product XVB C

Variable composition assembly of 1 to 5 illuminated or audible units which are supplied as separate items (assembly by user). Maximum configuration: 5 units or 4 units + 1 "flash" unit.

The indicator bank **XVB C** comprises:

- A base unit with a removable terminal block and bottom or side cable entry **2**.
- 1 to 5 coloured illuminated units (green, red, orange, blue, clear or yellow):
 - ☐ with integral LED **3**,
 - ☐ with integral LED and diffuser **4** (1),
 - ☐ for incandescent bulbs or base mounted LEDs **5**.
- 1 or 2 audible units **6**.
- A maximum of 1 "flash" discharge unit (5 Joule or 10 Joule) **7**, for mounting on top of the bank.
- A top cover **8** (except when using a "flash" discharge tube).

■ The illuminated or audible units stack vertically and are easily locked and unlocked using an integral clamping ring. Electrical connections between each unit are made automatically.

■ A light diffuser, pre-fitted in illuminated units XVB C2B•D with a base mounted LED, distributes the light evenly over the lens surface. When using the indicator banks in bright ambient light conditions, remove the diffuser to improve contrast.

■ Connection on the AS-Interface cabling system is possible by ordering a dedicated base unit. Please refer to our "Industrial communication in machines and installations" catalogue.

Accessories

For beacons XVB L and indicator banks XVB C

- Fixing base comprising a support tube glued into a plastic fixing plate, for a height beneath the base unit of 80, 380 or 780 mm **9**.
- Fixing plate for mounting on vertical support **10**.
- Support tube concealment cover, height 100, 400 or 800 mm **11**.
- Coloured markers **12** (1).
- Legend holder with legend **13** (1).
- Legends that attach to locking ring of each signalling unit for identification **14**.
- Adaptor and 13P cable gland **15**.
- Base mounted LED **16** or incandescent bulb **17**.
- Diffuser **18** (2).

Installation

Mounting

- Base unit fixed directly onto panel using 2 screws.
- Fixed using a fixing base comprising an aluminium support tube glued into a plastic fixing plate.

Cabling

By means of removable terminal block incorporated in base unit (simplified wiring).

The screw and captive cable clamp terminals are protected to prevent any accidental contact with live parts.

(1) These enable the position of the various units (illuminated or audible) to be identified in the event of dismantling the bank.

(2) The diffuser can only be used with LED illuminated units. Not compatible with units fitted with an incandescent bulb or "flash" discharge tube.

Environment characteristics			
Product certifications	Standard version		CSA C22-2 n°14, UL 508, CCC, GOST
Conformity to standards			EN/IEC 60947-5-1
Protective treatment	Standard version		"TC"
Ambient air temperature	For storage	°C	- 40...+ 70
	For operation (1)	°C	Illuminated units with steady light signalling: - 25...+ 70, with 7 W incandescent bulb - 25...+ 50, with LED
		°C	Illuminated units with flashing light signalling: - 25...+ 50, with 7 W incandescent bulb - 25...+ 50, with LED
		°C	Illuminated units with "flash" discharge tube: - 25...+ 50
		°C	Audible units: - 25...+ 50, with buzzer
Electric shock protection Conforming to IEC 61140	Mounted on support tube		Class I
	Mounted on base unit		Class II
Degree of protection	Conforming to IEC 60529		IP 65 (mounted on fixing base XVB Z0●) IP 66 (mounted directly on base unit)
	Conforming to UL 508		Type 4X NEMA "Indoor"
Material	Illuminated units		Polycarbonate
	Base unit and cover		Glass-reinforced polyamide and polycarbonate
	Support tube		Painted aluminium
	Fixing plate for use on vertical support		Zamak
	Fixing plate for use on horizontal support		Polyamide 66
	Support tube concealment cover		ABS

(1) Warning: illuminated units with incandescent bulbs must not be combined with LED illuminated units, due to the risk of overheating.
Also, when different units (e.g. steady, flashing...) are combined, the maximum temperature is limited to that of the weaker unit.

Electrical characteristics			
Rated insulation voltage (Ui)	Conforming to IEC 60947-1	V	250
Voltage limits	Conforming to IEC 60947-5-1	V	0.85 to 1.10 Un (Un: nominal voltage)
Consumption	LED units	mA	Steady light signalling: \approx 24 V: < 47 \sim 120 V: < 17 \sim 230 V: < 17
		mA	Flashing light signalling: \approx 24 V: < 47 \sim 120 V: < 17 \sim 230 V: < 17
	Units with discharge tube (1)	mA	Flashing light signalling: \sim 24 V: 5 J unit: < 550; 10 J unit: < 1 300 \sim 24 V: 5 J unit: < 350; 10 J unit: < 850 \sim 48 V: 10 J unit: < 650 \sim 48 V: 10 J unit: < 400 \sim 120 V: 5 J unit: < 140; 10 J unit: < 290 \sim 230 V: 5 J unit: < 105; 10 J unit: < 280
	Audible units	mA	\approx 12...48 V: < 15 \sim 120...230 V: < 25
Rated impulse withstand voltage	Conforming to IEC 60947-1	kV	Uimp = 4
Light source	Illuminated units with steady or flashing light signalling		LEDs: degree of pollution 2 Bulbs with BA 15d base fitting, maximum power 7 W
Illuminating power	Units with discharge tube	cds	13 (integral high intensity tube) with clear lens unit: 5 J tube 26 (integral high intensity tube) with clear lens unit: 10 J tube
Audible unit	Continuous or intermittent tone	dB	90 at 1 m
	Fundamental frequency	kHz	2.8
Terminal referencing			1 terminal referenced "C" common to all 5 units
			1 or 5 terminals referenced 1 to 5, depending on number of units
Connection	Maximum clamping capacity on protected, ready-to-tighten, screw and captive cable clamp terminals	mm ²	1 x 1.5 with cable end
Frequency of illuminated units	Illuminated units with flashing light signalling	Hz	1
	Illuminated units with discharge tube	Hz	1

(1) **Warning:** illuminated units with a "flash" discharge tube are not suitable for steady light signalling due to the heat generated.

Beacons and indicator banks

Illuminated beacons Ø 70 mm

Harmony type XVB L Universal

Complete beacons for incandescent bulbs or LEDs
(BA 15d base fitting)



XVB L3●



XVB L4B●

Beacons with steady light signalling

Description	Light source, to be ordered separately (1)	Colour	Reference	Weight kg
Complete unit comprising: - 1 illuminated unit - 1 base unit (direct or tube fixing)	Incandescent bulb 7 W max. 250 V max.	Green	XVB L33	0.260
		Red	XVB L34	0.260
		Orange	XVB L35	0.260
		Blue	XVB L36	0.260
		Clear	XVB L37	0.260
		Yellow	XVB L38	0.260

Beacons with integral flashing light signalling

Description	Light source, to be ordered separately (1)	Colour	Reference	Weight kg
Complete unit comprising: - 1 illuminated unit - 1 base unit (direct or tube fixing)	Incandescent bulb 7 W max. ~ 24 V --- 24...48 V	Green	XVB L4B3	0.280
		Red	XVB L4B4	0.280
		Orange	XVB L4B5	0.280
		Blue	XVB L4B6	0.280
		Clear	XVB L4B7	0.280
		Yellow	XVB L4B8	0.280
	Incandescent bulb 7 W max. ~ 48...230 V	Green	XVB L4M3	0.280
		Red	XVB L4M4	0.280
		Orange	XVB L4M5	0.280
		Blue	XVB L4M6	0.280
		Clear	XVB L4M7	0.280
		Yellow	XVB L4M8	0.280

(1) Incandescent bulbs and LEDs, see page 4/43.

Beacons and indicator banks

Illuminated beacons Ø 70 mm

Harmony type XVB L Universal

Complete beacons with LED light source



XVB L0B●

Beacons with steady light signalling

Description	Light source	Colour	Reference	Weight kg
Complete unit comprising: - 1 illuminated unit - 1 base unit (direct or tube fixing)	LED, included ~ 24 V	Green	XVB L0B3	0.270
		Red	XVB L0B4	0.270
		Orange	XVB L0B5	0.270
		Blue	XVB L0B6	0.270
		Clear	XVB L0B7	0.270
		Yellow	XVB L0B8	0.270
Protected LED	LED, included ~ 120 V	Green	XVB L0G3	0.270
		Red	XVB L0G4	0.270
		Orange	XVB L0G5	0.270
		Blue	XVB L0G6	0.270
		Clear	XVB L0G7	0.270
		Yellow	XVB L0G8	0.270
	LED, included ~ 230 V	Green	XVB L0M3	0.270
		Red	XVB L0M4	0.270
		Orange	XVB L0M5	0.270
		Blue	XVB L0M6	0.270
		Clear	XVB L0M7	0.270
		Yellow	XVB L0M8	0.270



XVB L1B●

Beacons with integral flashing light signalling

Description	Light source	Colour	Reference	Weight kg
Complete unit comprising: - 1 illuminated unit - 1 base unit (direct or tube fixing)	LED, included ~ 24 V	Green	XVB L1B3	0.280
		Red	XVB L1B4	0.280
		Orange	XVB L1B5	0.280
		Blue	XVB L1B6	0.280
		Clear	XVB L1B7	0.280
		Yellow	XVB L1B8	0.280
Protected LED	LED, included ~ 120 V	Green	XVB L1G3	0.280
		Red	XVB L1G4	0.280
		Orange	XVB L1G5	0.280
		Blue	XVB L1G6	0.280
		Clear	XVB L1G7	0.280
		Yellow	XVB L1G8	0.280
	LED, included ~ 230 V	Green	XVB L1M3	0.280
		Red	XVB L1M4	0.280
		Orange	XVB L1M5	0.280
		Blue	XVB L1M6	0.280
		Clear	XVB L1M7	0.280
		Yellow	XVB L1M8	0.280

Beacons and indicator banks

Illuminated beacons Ø 70 mm

Harmony type XVB L Universal

Complete beacons with “flash” discharge tube



XVB L6B●



XVB L8B●

Beacons with 5 Joule “flash” discharge tube

Description	Light source	Colour	Reference	Weight kg
Complete unit comprising: - 1 illuminated unit - 1 base unit (direct or tube fixing)	Integral “flash” discharge tube ~ 24 V	Green	XVB L6B3	0.440
		Red	XVB L6B4	0.440
		Orange	XVB L6B5	0.440
		Blue	XVB L6B6	0.440
		Clear	XVB L6B7	0.440
		Yellow	XVB L6B8	0.440
	Integral “flash” discharge tube ~ 120 V	Green	XVB L6G3	0.425
		Red	XVB L6G4	0.425
		Orange	XVB L6G5	0.425
		Blue	XVB L6G6	0.425
		Clear	XVB L6G7	0.425
		Yellow	XVB L6G8	0.425
	Integral “flash” discharge tube ~ 230 V	Green	XVB L6M3	0.435
		Red	XVB L6M4	0.435
		Orange	XVB L6M5	0.435
		Blue	XVB L6M6	0.435
		Clear	XVB L6M7	0.435
		Yellow	XVB L6M8	0.435

Beacons with 10 Joule “flash” discharge tube

Description	Light source	Colour	Reference	Weight kg
Complete unit comprising: - 1 illuminated unit - 1 base unit (direct or tube fixing)	Integral “flash” discharge tube ~ 24 V	Green	XVB L8B3	0.450
		Red	XVB L8B4	0.450
		Orange	XVB L8B5	0.450
		Blue	XVB L8B6	0.450
		Clear	XVB L8B7	0.450
		Yellow	XVB L8B8	0.450
	Integral “flash” discharge tube ~ 120 V	Green	XVB L8G3	0.460
		Red	XVB L8G4	0.460
		Orange	XVB L8G5	0.460
		Blue	XVB L8G6	0.460
		Clear	XVB L8G7	0.460
		Yellow	XVB L8G8	0.460
	Integral “flash” discharge tube ~ 230 V	Green	XVB L8M3	0.460
		Red	XVB L8M4	0.460
		Orange	XVB L8M5	0.460
		Blue	XVB L8M6	0.460
		Clear	XVB L8M7	0.460
		Yellow	XVB L8M8	0.460

Beacons and indicator banks

Indicator banks Ø 70 mm

Harmony type XVB C Universal (customer assembly, up to 5 units)

Illuminated units for incandescent bulbs or LEDs
(BA 15d base fitting)

For use with base unit XVB C●●: see page 4/42



XVB C3●



XVB C4●●

Illuminated units with steady light signalling

Description	Light source, to be ordered separately (1)	Colour	Reference	Weight kg
Illuminated units	Incandescent bulb 7 W max. 250 V max. or LED	Green	XVB C33	0.140
		Red	XVB C34	0.140
		Orange	XVB C35	0.140
		Blue	XVB C36	0.140
		Clear	XVB C37	0.140
		Yellow	XVB C38	0.140

Illuminated units with integral flashing light signalling

Description	Light source, to be ordered separately (1)	Colour	Reference	Weight kg
Illuminated units	Incandescent bulb 7 W max. ~ 24 V --- 24...48 V or LED	Green	XVB C4B3	0.160
		Red	XVB C4B4	0.160
		Orange	XVB C4B5	0.160
		Blue	XVB C4B6	0.160
		Clear	XVB C4B7	0.160
		Yellow	XVB C4B8	0.160
		Green	XVB C4M3	0.160
		Red	XVB C4M4	0.160
	Incandescent bulb 7 W max. ~ 48...230 V or LED	Orange	XVB C4M5	0.160
		Blue	XVB C4M6	0.160
		Clear	XVB C4M7	0.160
		Yellow	XVB C4M8	0.160

(1) Incandescent bulbs and LEDs, see page 4/43.

For use with base unit XVB C●●: see page 4/42



XVB C2●●

Illuminated units with steady light signalling				
Description	Voltage	Colour	Reference	Weight kg
Illuminated units with integral LED	≈ 24 V	Green	XVB C2B3 (1)	0.150
		Red	XVB C2B4 (1)	0.150
		Orange	XVB C2B5 (1)	0.150
		Blue	XVB C2B6 (1)	0.150
		Clear	XVB C2B7 (1)	0.150
		Yellow	XVB C2B8 (1)	0.150
	~ 120 V	Green	XVB C2G3	0.150
		Red	XVB C2G4	0.150
		Orange	XVB C2G5	0.150
		Blue	XVB C2G6	0.150
		Clear	XVB C2G7	0.150
	~ 230 V	Green	XVB C2M3	0.150
		Red	XVB C2M4	0.150
		Orange	XVB C2M5	0.150
		Blue	XVB C2M6	0.150
		Clear	XVB C2M7	0.150
		Yellow	XVB C2M8	0.150

Illuminated units with integral flashing light signalling				
Description	Voltage	Colour	Reference	Weight kg
Illuminated units with integral LED	≈ 24 V	Green	XVB C5B3	0.170
		Red	XVB C5B4	0.170
		Orange	XVB C5B5	0.170
		Blue	XVB C5B6	0.170
		Clear	XVB C5B7	0.170
		Yellow	XVB C5B8	0.170
	~ 120 V	Green	XVB C5G3	0.170
		Red	XVB C5G4	0.170
		Orange	XVB C5G5	0.170
		Blue	XVB C5G6	0.170
		Clear	XVB C5G7	0.170
	~ 230 V	Green	XVB C5M3	0.170
		Red	XVB C5M4	0.170
		Orange	XVB C5M5	0.170
		Blue	XVB C5M6	0.170
		Clear	XVB C5M7	0.170
		Yellow	XVB C5M8	0.170

(1) To order an illuminated unit with integral LED pre-fitted with light diffuser XVB Z18, add the letter "D" to the end of the reference. Example: XVB C2B3D.

Indicator banks Ø 70 mm

Harmony type XVB C Universal (customer assembly, up to 5 units)

Illuminated units with integral "flash" discharge tube

For use with base unit XVB C●●: see page 4/42



XVB C6●●



XVB C8●●

Illuminated units with 5 Joule "flash" discharge tube

Description	Light source	Colour	Reference	Weight kg
Illuminated units	Integral "flash" discharge tube ~ 24 V	Green	XVB C6B3	0.295
		Red	XVB C6B4	0.295
		Orange	XVB C6B5	0.295
		Blue	XVB C6B6	0.295
		Clear	XVB C6B7	0.295
		Yellow	XVB C6B8	0.295
	Integral "flash" discharge tube ~ 120 V	Green	XVB C6G3	0.280
		Red	XVB C6G4	0.280
		Orange	XVB C6G5	0.280
		Blue	XVB C6G6	0.280
		Clear	XVB C6G7	0.280
		Yellow	XVB C6G8	0.280
	Integral "flash" discharge tube ~ 230 V	Green	XVB C6M3	0.290
		Red	XVB C6M4	0.290
		Orange	XVB C6M5	0.290
		Blue	XVB C6M6	0.290
		Clear	XVB C6M7	0.290
		Yellow	XVB C6M8	0.290

Illuminated units with 10 Joule "flash" discharge tube

Description	Light source	Colour	Reference	Weight kg
Illuminated units	Integral "flash" discharge tube ~ 24 V	Green	XVB C8B3	0.305
		Red	XVB C8B4	0.305
		Orange	XVB C8B5	0.305
		Blue	XVB C8B6	0.305
		Clear	XVB C8B7	0.305
		Yellow	XVB C8B8	0.305
	Integral "flash" discharge tube ~ 48 V	Orange	XVB C8E5	0.315
	Integral "flash" discharge tube ~ 120 V	Green	XVB C8G3	0.315
		Red	XVB C8G4	0.315
		Orange	XVB C8G5	0.315
		Blue	XVB C8G6	0.315
		Clear	XVB C8G7	0.315
		Yellow	XVB C8G8	0.315
	Integral "flash" discharge tube ~ 230 V	Green	XVB C8M3	0.315
		Red	XVB C8M4	0.315
		Orange	XVB C8M5	0.315
		Blue	XVB C8M6	0.315
		Clear	XVB C8M7	0.315
		Yellow	XVB C8M8	0.315

Beacons and indicator banks

Indicator banks Ø 70 mm

Harmony type XVB C Universal (customer assembly, up to 5 units)

Audible units, base units, cover, accessories



XVB C9●

Audible units			
Description	Characteristics	Reference	Weight kg
Buzzer, 90 dB at 1 m Adjustable: - 70 or 90 dB - continuous or intermittent tone using microswitch	≈ 12...48 V	XVB C9B	0.170
	≈ 120...230 V	XVB C9M	0.180

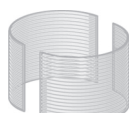
Base units (for direct or tube fixing)				
Description	For use with	Type	Reference	Weight kg
Base unit + cover with bottom or side cable entry	Banks without "flash" discharge tube unit	Standard	XVB C21	0.190
Base unit only with bottom or side cable entry	Banks with "flash" discharge tube unit	Standard	XVB C07	0.160
Base unit + cover with side cable entry	All types of bank	AS-Interface (1)	XVB C21A	—
Base unit + cover with bottom entry, pre-cabled (length 1 metre) and fitted with M12 end connector	All types of bank	AS-Interface (1)	XVB C21B	—

(1) For further information on AS-Interface connections, refer to our "Industrial communication in machines and installations" catalogue.

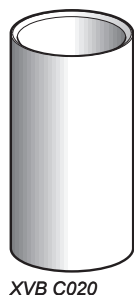
Accessories specific to indicator banks XVB C			
Description	Application	Unit reference	Weight kg
Cover only	For use with XVB C2, XVB C3, XVB C4, XVB C5 and XVB C9	XVB C081	0.030
Set of 6 coloured markers	For identification of the position of units in the event of dismantling the bank	XVB C22	0.001
Set of 5 legend holders	For identification of stacked units on base unit	XVB C23	0.002
Sheet of 85 legends	For use with base unit legend holder XVB C23	XVB CY1	0.005
Sheet of 52 legends	For identification of stacked units, used on locking ring	XVB CY2	0.005
Adaptor for side entry through base unit	With 13P cable gland	XVB C14	0.015
SIS labelling software (in English, French, German, Italian and Spanish)	For creating legends	XBY 2U	0.100
Light diffuser, clear plastic (Sold in boxes)	Only for use with LED illuminated units (all colours) One box allows to equip 5 illuminated units.	XVB Z18	0.080



XVB C07



XVB Z18



Accessories common to beacons XVB L and indicator banks XVB C

Description	Height under base unit (mm)	Colour	Reference	Weight kg
Fixing bases comprising Ø 25 mm aluminium support tube glued into a black plastic fixing plate	80	Black aluminium	XVB Z02	0.110
		Aluminium	XVB Z02A	0.110
	380	Black aluminium	XVB Z03	0.200
		Aluminium	XVB Z03A	0.200
	780	Black aluminium	XVB Z04	0.325
		Aluminium	XVB Z04A	0.325

Description	For use with	Material	Reference	Weight kg
Support tube concealment cover	Support tubes XVB Z02, XVB Z02A	ABS	XVB C020	0.080
	Support tubes XVB Z03, XVB Z03A	ABS	XVB C030	0.305
	Support tubes XVB Z04, XVB Z04A	ABS	XVB C040	0.610
Ø 25 mm aluminium support tube Height under base unit 780 mm	Fixing plate XVB Z01 (to be glued into the plastic fixing plate)	Plastic	XVB Z14	0.690
Fixing plate for use on horizontal support	Ø 25 mm aluminium support tube	Plastic	XVB Z01	0.050
Fixing plate for use on vertical support	Base unit (direct mounting), fixing plate XVB Z01 or fixing bases XVB Z0●	Zamak	XVB C12	0.380

Description	Characteristics		Sold in lots of	Unit reference	Weight kg
Incandescent bulbs BA 15d base fitting	12 V	7 W	10	DL1 BEJ	0.090
	24 V	6.5 W	10	DL1 BEB	0.090
	48 V	6 W	10	DL1 BEE	0.090
	120 V	7 W	10	DL1 BEG	0.090
	230 V	7 W	10	DL1 BEM	0.090
LEDs BA 15d base fitting	≈ 24 V	White	1	DL1 BDB1	0.015
		Green	1	DL1 BDB3	0.015
		Red	1	DL1 BDB4	0.015
		Orange	1	DL1 BDB5	0.015
		Blue	1	DL1 BDB6	0.015
		Yellow	1	DL1 BDB8	0.015
	~ 120 V	White	1	DL1 BDG1	0.015
		Green	1	DL1 BDG3	0.015
		Red	1	DL1 BDG4	0.015
		Orange	1	DL1 BDG5	0.015
		Blue	1	DL1 BDG6	0.015
		Yellow	1	DL1 BDG8	0.015
	~ 230 V	White	1	DL1 BDM1	0.015
		Green	1	DL1 BDM3	0.015
		Red	1	DL1 BDM4	0.015
		Orange	1	DL1 BDM5	0.015
		Blue	1	DL1 BDM6	0.015
		Yellow	1	DL1 BDM8	0.015
	≈ 24 V	White	1	DL1 BKB1	0.015
		Green	1	DL1 BKB3	0.015
		Red	1	DL1 BKB4	0.015
		Orange	1	DL1 BKB5	0.015
		Blue	1	DL1 BKB6	0.015
		Yellow	1	DL1 BKB8	0.015
	~ 120 V	White	1	DL1 BKG1	0.015
		Green	1	DL1 BKG3	0.015
		Red	1	DL1 BKG4	0.015
		Orange	1	DL1 BKG5	0.015
		Blue	1	DL1 BKG6	0.015
Flashing LEDs BA 15d base fitting	~ 230 V	Yellow	1	DL1 BKG8	0.015
		White	1	DL1 BKM1	0.015
		Green	1	DL1 BKM3	0.015
		Red	1	DL1 BKM4	0.015
		Orange	1	DL1 BKM5	0.015
	~ 230 V	Blue	1	DL1 BKM6	0.015
		Yellow	1	DL1 BKM8	0.015
		White	1	DL1 BKM1	0.015

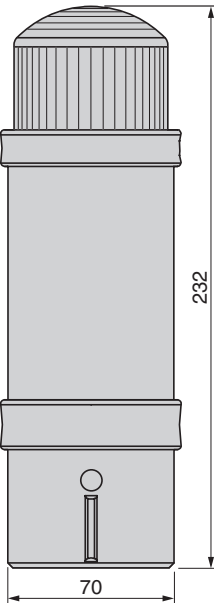
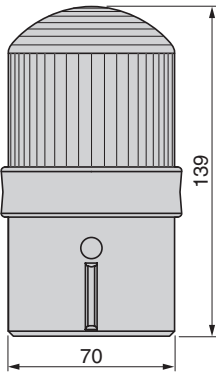
Protected
LEDProtected
LED

Dimensions

Illuminated beacons XVB L●●●

For BA 15d bulb or LED

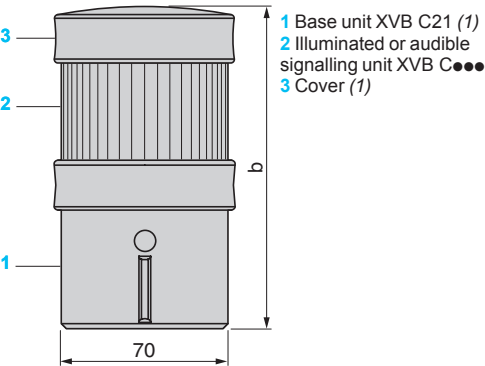
With “flash” discharge tube unit



Indicator banks XVB C●●●

Without “flash” discharge tube unit

With “flash” discharge tube unit

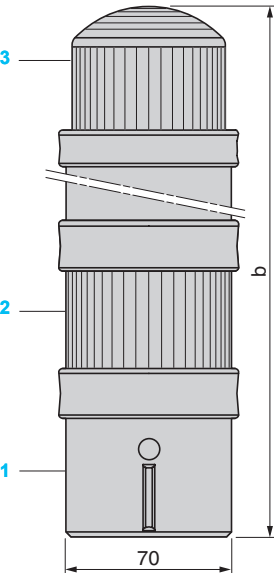
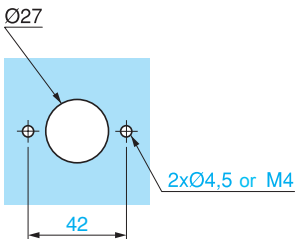


Number of illuminated or audible signalling units (no “flash”)	b
1	138
2	201
3	264
4	327
5	390

(1) Base unit XVB C21 is supplied with a cover.

Panel cut-out for direct fixing

On base unit XVB C21, XVB C07, XVB C21A or XVB C21B



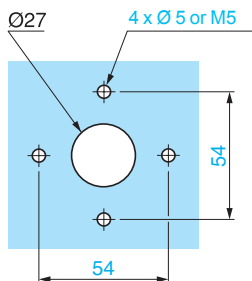
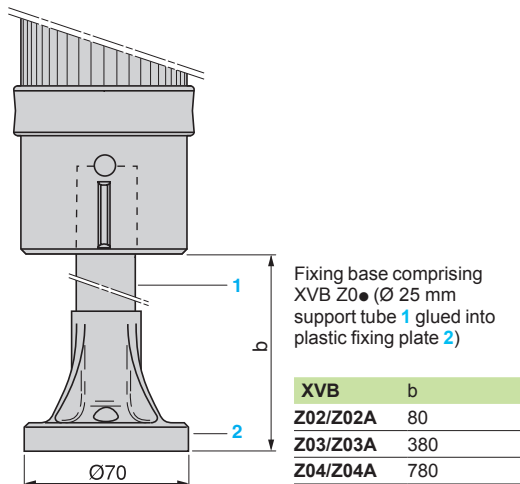
- 1 Base unit XVB C07
- 2 Illuminated or audible signalling unit XVB C●●●
- 3 “Flash” unit XVB C●●●

Number of illuminated or audible signalling units other than “flash” tube	b
1	295
2	358
3	421
4	484

Dimensions

With fixing bases comprising XVB Z0● (aluminium support tube glued into black plastic fixing plate)

Horizontal support panel cut-out for mounting on fixing plate

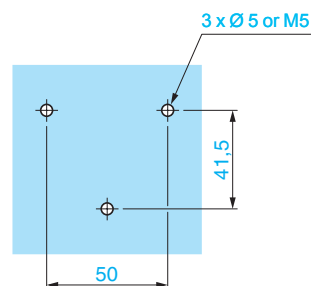
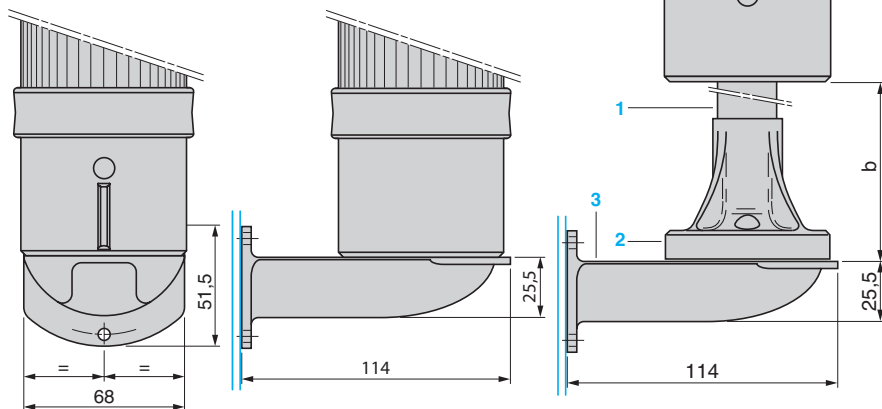


With fixing plate XVB C12 for use on vertical support

Direct mounting on base unit

Mounting using fixing base XVB Z0● (aluminium support tube glued into black plastic fixing plate)

Vertical support panel drillings for mounting fixing plate XVB C12



Fixing base comprising XVB Z0● (Ø 25 mm support tube 1 glued into plastic fixing plate 2) mounted on fixing plate XVB C12 for vertical support 3

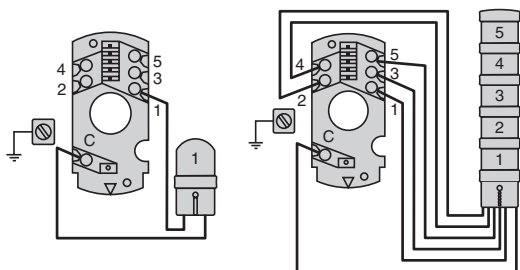
XVB	b
Z02/Z02A	80
Z03/Z03A	380
Z04/Z04A	780

Installation

Connections

XVB L

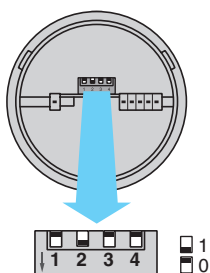
XVB C



Adjustment of audible signal for buzzers type XVB C9●

By means of 4 microswitches located in the base of the buzzer:

- 2 switches marked 1 and 2 for selecting continuous or intermittent mode (Hz).
- 2 switches marked 3 and 4 for selecting the power (dB) of the audible signal.



Position of microswitches		Setting
1	2	Mode
1	1	2.8 kHz
1	0	2.8 kHz
0	1	5 Hz (1)
0	0	1 Hz
3	4	Power
1	1	90 dB (1)
0	1	85 dB
1	0	80 dB
0	0	70 dB

(1) Factory setting.

Beacons and indicator banks

Beacons and indicator banks Ø 70 mm

Harmony type XVD Application

Complete pre-cabled beacons and indicator banks and separate components for customer assembly



Complete pre-cabled beacon XVD fitted with "flash" discharge tube

Complete pre-cabled indicator bank XVD fitted with 2 illuminated units and 1 audible unit

Presentation

Ø 70 mm beacons and indicator banks type XVD are available in 2 forms:

■ Complete pre-cabled products

Depending on the model, they are "ready to use":

- ☐ with 1, 2, 3 or 4 illuminated signalling units (light source included),
- ☐ with or without "flash" unit,
- ☐ with or without audible signalling unit (buzzer),
- ☐ with fixing base.

The complete pre-cabled indicator banks cannot be modified due to the wiring.

■ **Customer assembled products**, using separate components for customised configuration.

Light signalling

■ 6 catalogued illuminated unit lens colours (green, red, orange, blue, clear and yellow) are available as separate components. These illuminated units can be fitted with steady or flashing light signalling LEDs which provide a long service life by considerably reducing heating and power consumption. However, incandescent bulbs can also be used.

■ A light diffuser, pre-fitted in illuminated units with a base mounted LED (1), distributes the light evenly over the lens surface. When using the indicator banks in bright ambient light conditions, remove the diffuser to improve contrast.

■ Some complete pre-cabled beacon and indicator bank models are available with a 5 Joule orange or red "flash" unit, but other colours (green, blue, yellow and clear) can be ordered as separate components.

Audible signalling

Complete pre-cabled indicator banks are supplied with or without an audible unit (buzzer), depending on the model selected.

- ☐ The volume of the audible signal is adjustable up to a value of 90 decibels at a distance of 1 m.
- ☐ Microswitches located in the audible unit enable selection of the signal frequency: continuous or intermittent tone.

Cabling and mounting

■ Complete pre-cabled Ø 70 mm beacons and indicator banks XVD have 300 mm long connecting wires protruding from the fixing base.

☐ The wires have bared ends to enable direct connection, without the need for wire stripping etc. A label attached to the common (black wire) details the wire colour and associated unit in the bank, from bottom to top:

- brown: 1st unit,
- grey: 2nd unit,
- violet: 3rd unit,
- blue: 4th unit.

☐ The connections to customer assembled products are made to a removable terminal block incorporated in the base unit.

■ The fixing of the combined units is assured by a single screw, the length of which depends on the number of units in the bank.

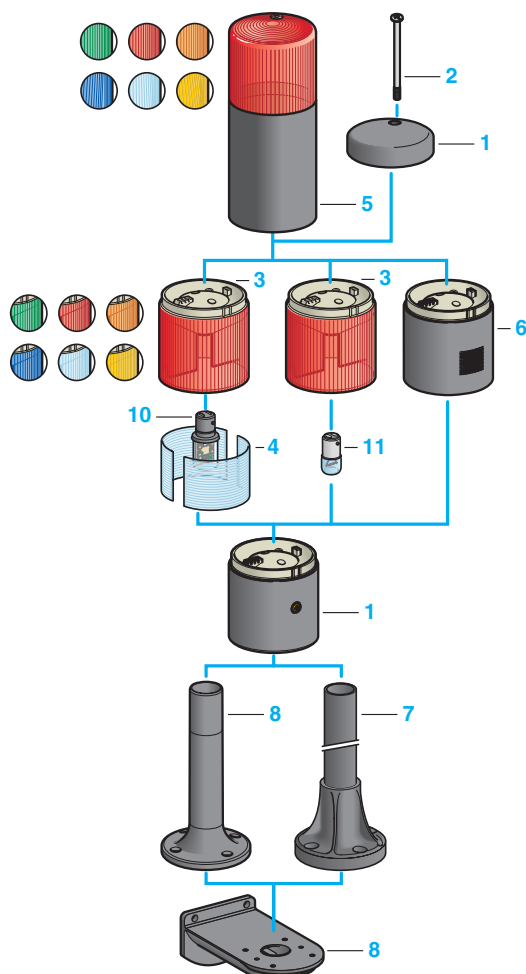
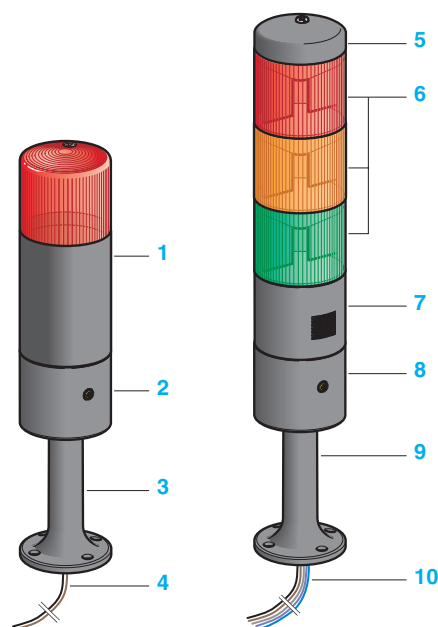
(1) Diffuser not compatible with units fitted with an incandescent bulb or "flash" discharge tube.

Beacons and indicator banks

Beacons and indicator banks Ø 70 mm

Harmony type XVD Application

Complete pre-cabled beacons and indicator banks
and separate components for customer assembly



Description

Complete pre-cabled Ø 70 mm beacons and indicator banks XVD

The assembled beacons comprise:

- 1 an illuminated unit with "flash" discharge tube (included) and orange or red lens,
- 2 a base unit,
- 3 a 100 mm high plastic fixing base (support tube with integral fixing plate), for raising the beacon 80 mm,
- 4 different coloured connecting wires with bared ends, length protruding from support tube: 300 mm.

The assembled indicator banks comprise:

- 5 a cover,
- 6 two, three or four illuminated units with red, green, orange or clear lens (depending on model) and light source (included),
- 7 an audible unit (buzzer), depending on model,
- 8 a base unit,
- 9 a 100 mm high plastic fixing base (support tube with integral fixing plate), for raising the indicator bank 80 mm,
- 10 different coloured connecting wires with bared ends, length protruding from support tube: 300 mm.

Breakdown of the reference for a complete indicator bank (1)

		Number of signalling units			
		1	2	3	4
XVD		B	G	M	S
Voltage	~ 24 V	B			
	~ 110 V	G			
	~ 230 V	M			
Light source	Incandescent bulb	1			
	LED	2			
Buzzer	Without	(2)			
	With	S			
Illuminated unit	Colour	Red	R	R	R
		Orange	A	A	A
		Green	G	G	G
		Clear	C	C	C
	Signalling	Steady	(2)	(2)	(2)
		"Flash"	6	6	6

Reference example

XVD B2SGR = indicator bank for ~ 24 V supply voltage comprising a buzzer, one green lens illuminated unit and one red lens illuminated unit, both fitted with an LED.

Customer assembled Ø 70 mm indicator banks XVD

A **customised** indicator bank can be obtained by assembling:

- 1 a cover and a base unit incorporating a removable terminal block (3) with bottom cable entry,
- 2 a fixing screw for the combined units (4),
- 3 5 illuminated units maximum (5) with red, orange, green, blue or clear lens, light source not included (6),
- 4 a light diffuser (accessory that is only compatible with illuminated units fitted with an LED),
- 5 an illuminated unit with integral "flash" discharge tube (always mounted at the top of the bank),
- 6 an audible unit (buzzer),
- 7 a fixing base comprising an aluminium support tube glued into a plastic fixing plate, for raising the indicator bank by 80, 380 or 780 mm,
- 8 a plastic fixing base (support tube with integral fixing plate), height 100 mm,
- 9 a zamak fixing plate for use on a vertical support,
- 10 Base mounted LED,
- 11 Incandescent bulb.

(1) This table is purely for information and must not be used to create references.

(2) Not indicated, default value.

(3) Electrical connections to removable terminal block to be made by user.

(4) Variable length screw depending on the number of units to be combined. To be ordered separately, see page 4/52.

(5) Maximum configuration possibilities:

- 5 illuminated units mounted on base unit.
- 4 illuminated units + 1 "buzzer" mounted on base unit.

(6) Incandescent bulbs or LEDs to be ordered separately, see page 4/53.

Beacons and indicator banks

Beacons and indicator banks Ø 70 mm
Harmony type XVD Application
Complete pre-cabled beacons and indicator banks
and separate components for customer assembly

4

Environment			
Conformity to standards			EN/IEC 60947-5-1
Product certifications			UL, CSA, GOST
Protective treatment	Standard version		"TC"
Ambient air temperature	For storage	°C	- 40...+ 70
	For operation (1)	°C	Illuminated units with steady light signalling: - 25...+ 70, with 10 W max. incandescent bulb - 25...+ 50, with LED
		°C	Illuminated units with flashing light signalling: - 25...+ 50, with 7 W max. incandescent bulb - 25...+ 40, with 10 W max. incandescent bulb - 25...+ 50, with LED
		°C	Illuminated units with "flash" discharge tube: - 25...+ 50
		°C	Audible units: - 25...+ 50, with buzzer
Electric shock protection Conforming to IEC 536	Mounted on support tube		Class I with metal fixing plate Class II with plastic fixing plate
	Mounted on base unit		Class II
Degree of protection	Conforming to IEC 60529		IP 40
Material	Illuminated units		Polycarbonate
	Base unit and cover		Glass-reinforced polyamide and polycarbonate
	Fixing bases		Support tube with integral fixing plate: plastic (XVD C02) Aluminium support tube glued into plastic fixing plate (XVB Z0●)
	Fixing plate XVB C12 for use on vertical support		Zamak
Electrical characteristics			
Rated insulation voltage (Ui)	Conforming to IEC 60947-1	V	250
Voltage limits	Conforming to IEC 60947-5-1	G	0.85 to 1.10 Un (Un: nominal voltage)
Consumption	LED unit	mA	Steady light signalling: ≈ 24 V: < 47 ~ 120 V: < 17 ~ 230 V: < 17
		mA	Flashing light signalling: ≈ 24 V: < 47 ~ 120 V: < 17 ~ 230 V: < 17
	5 Joule "flash" discharge tube unit (on energisation)	mA	~ 24 V: < 550 --- 24 V: < 350 ~ 120 V: < 140 ~ 230 V: < 105
	Audible units	mA	≈ 12...48 V: < 20
			~ 120...230 V: < 50
Rated impulse withstand voltage	Conforming to IEC 60947-1	kV	Uimp = 4
Light source	Illuminated units with steady or flashing light signalling		Incandescent bulbs with BA 15d base fitting, maximum power 10 W LED with BA 15d base fitting
Illuminating power	Illuminated units with discharge circuit (integral discharge tube)	cds	13 (integral high intensity tube) with clear lens unit: 5 J tube
Audible unit	Continuous or intermittent tone	dB	90 at 1 m (adjustable: 70...90 dB)
	Fundamental frequency	kHz	2.8
Terminal referencing	Common to all 5 units		1 terminal referenced "C"
	Depending on number of units		1 or 5 terminals referenced 1 to 5
Connection	Maximum clamping capacity on protected, ready-to-tighten, screw and captive cable clamp terminals	mm ²	1 x 1.5 with cable end 1 x 0.82 with bared wire ends (complete products)
Frequency of illuminated units	Illuminated units with flashing light signalling	Hz	1
	Illuminated units with discharge tube	Hz	1

(1) **Warning:** illuminated units with incandescent bulbs must not be combined with LED illuminated units, due to the risk of overheating.
Also, when different units (e.g. steady, flashing...) are combined, the maximum temperature is limited to that of the weaker unit.

Beacons and indicator banks

Beacons and indicator banks Ø 70 mm

Harmony type XVD Application

Complete pre-cabled beacons and indicator banks



XVD ●●6



XVD ●2S●R

Complete pre-cabled beacons

Composition	Light source (included)	Voltage	Signalling colour (1)		Reference (2)	Weight kg
			Steady	"Flash"		
1 illuminated unit	"Flash" discharge tube 5 J	~ 24 V	—	R	XVD BR6	0.600
			—	O	XVD BA6	0.600
		~ 230 V	—	R	XVD MR6	0.600
			—	O	XVD MA6	0.600

Complete pre-cabled indicator banks

With 2 signalling units

Composition	Light source (included)	Voltage	Signalling colour (1)		Reference (2)	Weight kg
			Steady	"Flash"		
2 illuminated units	LED	~ 24 V	G-R	—	XVD B2GR	0.553
			O-R	—	XVD B2AR	0.553
	LED + "flash" discharge tube 5 J	~ 24 V	G	R	XVD B2GR6	0.755
1 illuminated unit + 1 audible "buzzer" unit	"Flash" discharge tube 5 J	~ 24 V	—	O	XVD BSA6	0.775

With 3 signalling units

Composition	Light source (included)	Voltage	Signalling colour (1)		Reference (2)	Weight kg
			Steady	"Flash"		
3 illuminated units	Incandescent bulb 10 W max.	~ 24 V	G-O-R	—	XVD B1GAR	0.923
		~ 230 V	G-O-R	—	XVD M1GAR	0.923
	LED	~ 24 V	G-O-R	—	XVD B2GAR	0.698
		~ 230 V	G-O-R	—	XVD M2GAR	0.698
	LED + "flash" discharge tube 5 J	~ 24 V	G-O	R	XVD B2GAR6	0.898
		~ 24 V	G-R	—	XVD B2SGR	0.718
2 illuminated units + 1 audible "buzzer" unit	LED	~ 24 V	O-R	—	XVD B2SAR	0.718
			G-R	—	XVD M2SGR	0.718
	LED	~ 230 V	G-R	—	XVD M2SGR	0.718

With 4 signalling units

Composition	Light source (included)	Voltage	Signalling colour (1)		Reference (2)	Weight kg
			Steady	"Flash"		
4 illuminated units	LED	~ 24 V	C-G-O-R	—	XVD B2CGAR	0.843
3 illuminated units + 1 audible "buzzer" unit	Incandescent bulb 10 W max.	~ 24 V	G-O-R	—	XVD B1SGAR	1.088
		~ 24 V	G-O-R	—	XVD B2SGAR	0.863
	LED	~ 230 V	G-O-R	—	XVD M2SGAR	0.863

(1) Signalling colour: R: red; O: orange; G: green; C: clear.

(2) In the references, the colours are listed in the same order as the mounting of the illuminated units (from bottom to top).

Beacons and indicator banks

Beacons and indicator banks Ø 70 mm

Harmony type XVD Application

Beacons for customer assembly



XVD L3●



XVD L4●●



XVD L6●●●

Beacons for customer assembly

With steady light signalling

Description	Light source, to be ordered separately (1)	Colour	Reference	Weight kg
Beacon comprising: - 1 illuminated unit - 1 base unit	Incandescent bulb 10 W max., 250 V max. or LED	Green	XVD L33	0.255
		Red	XVD L34	0.255
		Orange	XVD L35	0.255
		Blue	XVD L36	0.255
		Clear	XVD L37	0.255
		Yellow	XVD L38	0.255

With integral flashing light signalling

Description	Light source, to be ordered separately (1)	Colour	Reference	Weight kg
Beacon comprising: - 1 illuminated unit - 1 base unit	Incandescent bulb 10 W max., ~ 24 V, ~ 24...48 V or LED	Green	XVD L4B3	0.275
		Red	XVD L4B4	0.275
		Orange	XVD L4B5	0.275
		Blue	XVD L4B6	0.275
		Clear	XVD L4B7	0.275
		Yellow	XVD L4B8	0.275
	Incandescent bulb 10 W max., ~ 48...230 V or LED	Green	XVD L4M3	0.275
		Red	XVD L4M4	0.275
		Orange	XVD L4M5	0.275
		Blue	XVD L4M6	0.275
		Clear	XVD L4M7	0.275
		Yellow	XVD L4M8	0.275

With 5 Joule "flash" discharge tube

Description	Light source (included)	Colour	Reference	Weight kg
Beacon comprising: - 1 illuminated unit - 1 base unit	Integral "flash" discharge tube ~ 24 V	Green	XVD L6B3	0.480
		Red	XVD L6B4	0.480
		Orange	XVD L6B5	0.480
		Blue	XVD L6B6	0.480
		Clear	XVD L6B7	0.480
		Yellow	XVD L6B8	0.480
	Integral "flash" discharge tube ~ 230 V	Green	XVD L6M3	0.475
		Red	XVD L6M4	0.475
		Orange	XVD L6M5	0.475
		Blue	XVD L6M6	0.475
		Clear	XVD L6M7	0.475
		Yellow	XVD L6M8	0.475

(1) Incandescent bulbs and LEDs: see page 4/53.

Beacons and indicator banks

Beacons and indicator banks Ø 70 mm

Harmony type XVD Application

Indicator banks Ø 70 mm for customer assembly
(up to 5 units)



XVD C3●



XVD C4●●



XVB Z18



XVD C6●●

Indicator banks for customer assembly of 1 to 5 signalling units

Illuminated units with steady light signalling

Description	Light source, to be ordered separately (1)	Colour	Reference	Weight kg
Illuminated units	Incandescent bulb 10 W max., 250 V max. or LED	Green	XVD C33	0.115
		Red	XVD C34	0.115
		Orange	XVD C35	0.115
		Blue	XVD C36	0.115
		Clear	XVD C37	0.115
		Yellow	XVD C38	0.115

Illuminated units with integral flashing light signalling

Description	Light source, to be ordered separately (1)	Colour	Reference	Weight kg
Illuminated units	Incandescent bulb 10 W max., ~ 24 V, ~ 24...48 V or LED	Green	XVD C4B3	0.135
		Red	XVD C4B4	0.135
		Orange	XVD C4B5	0.135
		Blue	XVD C4B6	0.135
		Clear	XVD C4B7	0.135
		Yellow	XVD C4B8	0.135
	Incandescent bulb 10 W max., ~ 48...230 V or LED	Green	XVD C4M3	0.135
		Red	XVD C4M4	0.135
		Orange	XVD C4M5	0.135
		Blue	XVD C4M6	0.135
		Clear	XVD C4M7	0.135
		Yellow	XVD C4M8	0.135

Light diffuser

Description	For use with	Reference	Weight kg
Light diffuser clear plastic (Sold in boxes)	LED illuminated units only (all colours) One box allows to equip 5 illuminated units.	XVB Z18	0.080

Illuminated units with 5 Joule "flash" discharge tube

Description	Light source (included)	Colour	Reference	Weight kg
Illuminated units	Integral "flash" discharge tube ~ 24 V	Green	XVD C6B3	0.310
		Red	XVD C6B4	0.310
		Orange	XVD C6B5	0.310
		Blue	XVD C6B6	0.310
		Clear	XVD C6B7	0.310
		Yellow	XVD C6B8	0.310
	Integral "flash" discharge tube ~ 230 V	Green	XVD C6M3	0.310
		Red	XVD C6M4	0.310
		Orange	XVD C6M5	0.310
		Blue	XVD C6M6	0.310
		Clear	XVD C6M7	0.310
		Yellow	XVD C6M8	0.310

(1) Incandescent bulbs and LEDs: see page 4/53

Beacons and indicator banks

Beacons and indicator banks Ø 70 mm

Harmony type XVD Application

Indicator banks Ø 70 mm for customer assembly
(up to 5 units)



XVD C9



XVD C07

Indicator banks for customer assembly of 1 to 5 signalling units (continued)

Audible units			
Description	Characteristics	Reference	Weight kg
Buzzer, 90 dB at 1 m adjustable, 70 to 90 dB, continuous or intermittent mode (using microswitches)	~ 12...48 V	XVD C9B	0.150
	~120...230 V	XVD C9M	0.150

Base units (for direct or support tube fixing)

Description	For use with	Type	Reference	Weight kg
Base unit + cover with bottom cable entry	Banks without "flash" discharge tube unit	Standard	XVD C21	0.180
Base unit only with bottom cable entry	Banks with "flash" discharge tube unit	Standard	XVD C07	0.160

Assembly screw

Screw for assembling signalling units on base unit	Banks without "flash" discharge tube unit	1 unit	XVD C03	0.015
		2 units	XVD C04	0.022
		3 units	XVD C05	0.030
		4 units	XVD C06	0.038
		5 units	XVD C08	0.045
	Banks with "flash" discharge tube unit	1 unit	XVD C09	0.036
		2 units	XVD C10	0.044
		3 units	XVD C11	0.050
		4 units	XVD C12	0.059

Beacons and indicator banks

Beacons and indicator banks Ø 70 mm

Harmony type XVD Application

Accessories for customer assembled beacons and indicator banks



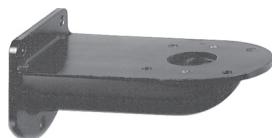
XVB Z02



XVB Z03/Z04



XVD C02



XVB C12



DL1 B●●



DL1 BD●●/DL1 BK●●

Accessories common to beacons and indicator banks

Description	Height under base unit (mm)	Support tube colour	Reference	Weight kg
Fixing bases comprising Ø 25 mm aluminium support tube glued into a black plastic fixing plate	80	Black aluminium	XVB Z02	0.110
		Aluminium	XVB Z02A	0.110
	380	Black aluminium	XVB Z03	0.200
		Aluminium	XVB Z03A	0.200
	780	Black aluminium	XVB Z04	0.325
		Aluminium	XVB Z04A	0.325

Description	Details	Colour	Reference	Weight kg
Fixing base (plastic support tube with integral fixing plate)	100 mm	Black	XVD C02	0.070
Fixing plate (Zamak) for use on vertical support	Direct mounting on base unit or using support tube with integral fixing plate XVD C02 or using fixing bases XVB Z0●		XVB C12	0.380
Cover only	—			0.020

Description	Characteristics	Sold in lots of	Unit reference	Weight kg
Incandescent bulbs BA 15d base fitting	12 V	10	DL1 B●J (1)	0.090
	24 V	10	DL1 B●B (1)	0.090
	48 V	10	DL1 B●E (1)	0.090
	120 V	10	DL1 B●G (1)	0.090
	230 V	10	DL1 B●M (1)	0.090

LEDs BA 15d base fitting	~ 24 V	White	1	DL1 BDB1	0.015
		Green	1	DL1 BDB3	0.015
		Red	1	DL1 BDB4	0.015
		Orange	1	DL1 BDB5	0.015
		Blue	1	DL1 BDB6	0.015
		Yellow	1	DL1 BDB8	0.015
	~ 120 V	White	1	DL1 BDG1	0.015
		Green	1	DL1 BDG3	0.015
		Red	1	DL1 BDG4	0.015
		Orange	1	DL1 BDG5	0.015
		Blue	1	DL1 BDG6	0.015
		Yellow	1	DL1 BDG8	0.015
	~ 230 V	White	1	DL1 BDM1	0.015
		Green	1	DL1 BDM3	0.015
		Red	1	DL1 BDM4	0.015
		Orange	1	DL1 BDM5	0.015
		Blue	1	DL1 BDM6	0.015
		Yellow	1	DL1 BDM8	0.015

Flashing LEDs BA 15d base fitting	~ 24 V	White	1	DL1 BKB1	0.015
		Green	1	DL1 BKB3	0.015
		Red	1	DL1 BKB4	0.015
		Orange	1	DL1 BKB5	0.015
		Blue	1	DL1 BKB6	0.015
		Yellow	1	DL1 BKB8	0.015
	~ 120 V	White	1	DL1 BKG1	0.015
		Green	1	DL1 BKG3	0.015
		Red	1	DL1 BKG4	0.015
		Orange	1	DL1 BKG5	0.015
		Blue	1	DL1 BKG6	0.015
		Yellow	1	DL1 BKG8	0.015
	~ 230 V	White	1	DL1 BKM1	0.015
		Green	1	DL1 BKM3	0.015
		Red	1	DL1 BKM4	0.015
		Orange	1	DL1 BKM5	0.015
		Blue	1	DL1 BKM6	0.015
		Yellow	1	DL1 BKM8	0.015

(1) Complete the reference using the letter "E" for a 7 W bulb or the letter "L" for a 10 W bulb.
Example: DL1 BEJ.

Beacons and indicator banks

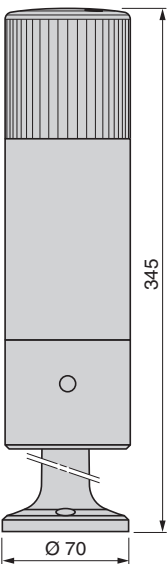
Beacons and indicator banks Ø 70 mm

Harmony type XVD Application

Complete pre-cabled beacons and indicator banks
and separate components for customer assembly

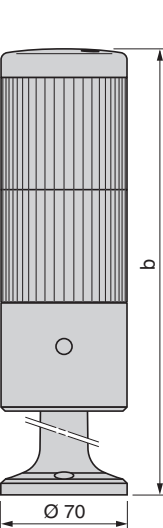
Dimensions

Complete pre-cabled beacons XVD B●6, XVD M●6

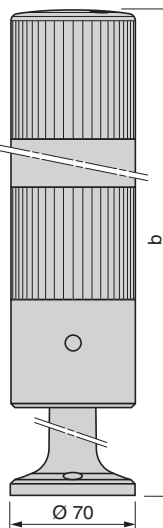


Complete pre-cabled indicator banks XVD ●●●●

Without "flash" discharge tube



With "flash" discharge tube



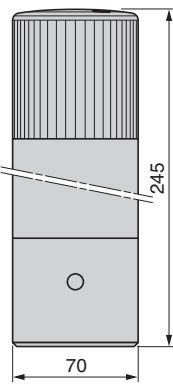
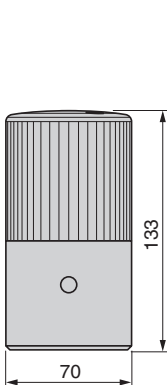
Number of illuminated or audible signalling units (no "flash")	b
2	302
3	365
4	428

Number of illuminated or audible signalling units other than "flash"	b
2	405
3	468

Customer assembled beacons XVD L●●●

With steady or flashing light signalling, XVD L3●/L4●●

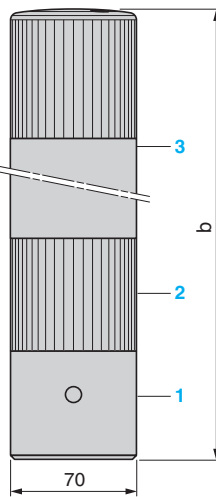
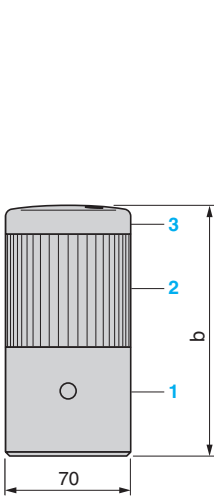
With "flash" discharge tube, XVD L6●●



Customer assembled indicator banks XVD C●●●

Without "flash" discharge tube

With "flash" discharge tube



- 1 Base unit XVD C21 (1)
- 2 Illuminated unit XVD C3●/C4●● or audible unit XVD C9●
- 3 Cover (1)

Number of illuminated or audible signalling units (no "flash")	b
1	140
2	203
3	266
4	329
5	392

(1) Cover included with base unit XVD C21.

- 1 Base unit XVD C07
- 2 Illuminated unit XVD C6●● or audible unit XVD C9●
- 3 "Flash" unit XVD C6●●

Number of illuminated or audible signalling units other than "flash"	b
1	308
2	371
3	434
4	497

Beacons and indicator banks

Beacons and indicator banks Ø 70 mm

Harmony type XVD Application

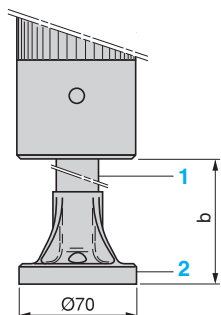
Complete pre-cabled beacons and indicator banks
and separate components for customer assembly

Mounting

With fixing bases XVB Z0● (aluminium support tube
glued into black plastic fixing plate)

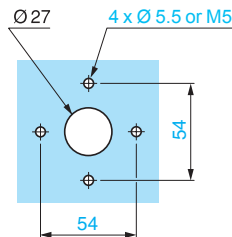
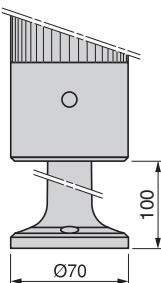
With fixing base XVD C02
(support tube with integral fixing plate)

Horizontal support panel cut-out
for mounting on fixing plate



Fixing base comprising XVB Z0●
(Ø 25 mm support tube 1 glued
into plastic fixing plate 2)

XVB	b
Z02/Z02A	80
Z03/Z03A	380
Z04/Z04A	780

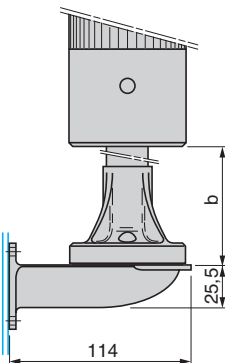
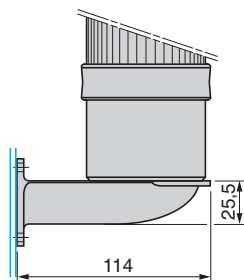
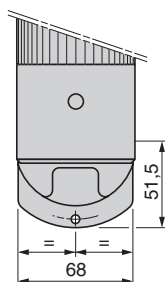


With fixing plate XVB C12 for use on vertical support

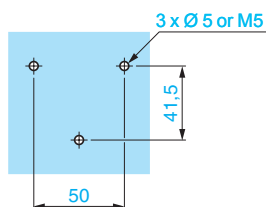
Direct mounting on base unit

Mounting using fixing bases XVB Z0● or XVD C02

Vertical support panel drillings
for fixing plate XVB C12



Fixing bases	b
XVB Z02/Z02A	80
XVB Z03/Z03A	380
XVB Z04/Z04A	780
XVD C02	100



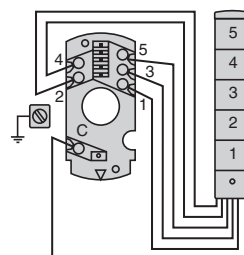
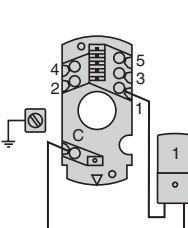
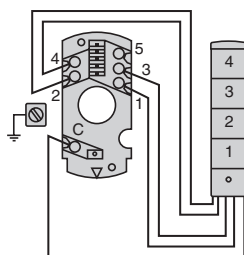
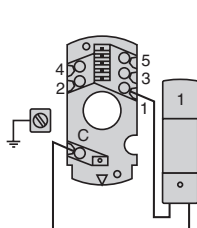
4

Installation

Connections

Complete pre-cabled beacons and indicator banks

Customer assembled beacons and indicator banks



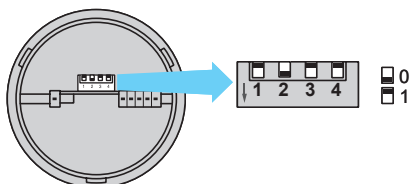
Wire colours of pre-assembled products:

- C: black
- 1: brown
- 2: grey
- 3: violet
- 4: blue

Adjustment of audible signal for buzzers type XVD C9●

By 4 microswitches located in the base of the buzzer:

- ☐ 2 switches marked 1 and 2 for selecting continuous or intermittent **mode** (Hz).
- ☐ 2 switches marked 3 and 4 for selecting the audible signal **power** (dB).



Position of microswitches				Setting	
1	2	3	4	Mode	Power
1	1	1	1	— 2.8 kHz	90 dB (Factory setting)
1	0	0	1	— 2.8 kHz	85 dB
0	1	1	0	⏏ 5 Hz (1)	80 dB
0	0	0	0	⏏ 1 Hz	70 dB

General

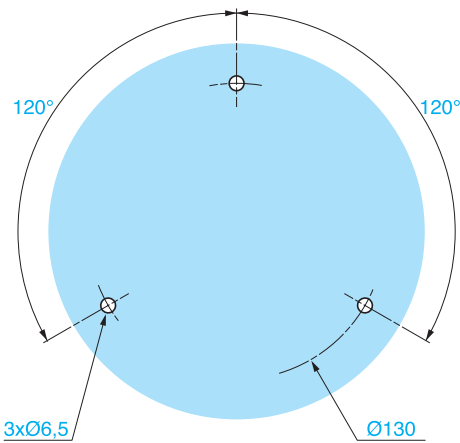
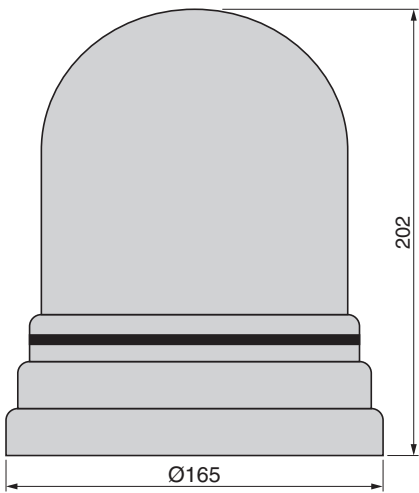
These rotating beacons are designed for long distance signalling applications.

Characteristics

Conformity to standards			IEC/EN 60947-1, IEC/EN 60947-5-1, UL 508, CSA C22-2-14
Protective treatment	Standard version		"TC"
Ambient air temperature	For storage	°C	- 40...+ 70
	For operation	°C	- 20...+ 50
Electric shock protection	Conforming to IEC/EN 61140		Class I
Degree of protection	Conforming to IEC 60529		IP 65
	Conforming to UL 508 and CSA 22		Type 4X Nema "INDOOR"
Material	Base unit		Glass-reinforced polyamide 6
	Domed lens unit		Polycarbonate
Rated insulation voltage (Ui)	Conforming to IEC/EN 60947-1	V	250
Consumption	Halogen bulbs	mA	≈ 24 V: < 3100
	Incandescent bulbs	mA	≈ 24 V: < 1050
			~ 120 V: < 210
			~ 230 V: < 110
Rated impulse withstand voltage	Conforming to IEC/EN 60947-1	kV	Uimp = 4
Light source	Halogen bulbs		Bulbs with H1 base fitting: maximum power 70 W
	Incandescent bulbs		Bulbs with BA 15d base fitting: maximum power 25 W
Service life of motor		H	> 2000
Mounting position			Horizontal
Flash frequency		Hz	3
Connection	Maximum clamping capacity	mm²	1 x 1.5 mm²
Cable entry			For ISO M20 x 1.5 cable gland (included)

Dimensions

Panel cut-out



M20 x 1.5 cable gland included

Beacons and indicator banks

Rotating mirror beacons

Harmony type XVR Application



XVR 1●●●

Rotating mirror beacons

Light source	Supply voltage	Colour	Reference	Weight kg
Halogen bulb included 70 W	≈ 24 V	Green	XVR 1B93	1.165
		Red	XVR 1B94	1.165
		Orange	XVR 1B95	1.165
		Blue	XVR 1B96	1.165
		Yellow	XVR 1B98	1.165
Incandescent bulb included 25 W	≈ 24 V	Green	XVR 1B03	1.165
		Red	XVR 1B04	1.165
		Orange	XVR 1B05	1.165
		Blue	XVR 1B06	1.165
		Yellow	XVR 1B08	1.165
	~ 120 V	Green	XVR 1G03	1.235
		Red	XVR 1G04	1.235
		Orange	XVR 1G05	1.235
		Blue	XVR 1G06	1.235
		Yellow	XVR 1G08	1.235
	~ 230 V	Green	XVR 1M03	1.235
		Red	XVR 1M04	1.235
		Orange	XVR 1M05	1.235
		Blue	XVR 1M06	1.235
		Yellow	XVR 1M08	1.235

Accessories and spare parts

Description	Characteristics	Unit reference	Weight kg
Domed lens unit	Green	XVR 0153	0.335
	Red	XVR 0154	0.335
	Orange	XVR 0155	0.335
	Blue	XVR 0156	0.335
	Yellow	XVR 0158	0.335
Protective grill for domed lens unit	–	XVR 016 (1)	–
Fixing plate for use on vertical support	–	XVR 012	–
Fixing plate for support tube (1/2 NPT)	–	XVR 013	–
Halogen bulbs H1 base fitting, 70 W	24 V	DL1 BRBH	–
Incandescent bulbs BA 15d base fitting, 25 W (sold in lots of 10)	24 V	DL1 BRB	0.100
	120 V	DL1 BRG	0.100
	230 V	DL1 BRM	0.100

(1) This protective grill is only suitable for use with the XVR 1●●● rotating mirror beacon, without cable gland fitted.

General

These sirens are designed for long distance signalling applications.

Characteristics

Conformity to standards			IEC/EN 60947-1, IEC/EN 60947-5-1
Protective treatment	Standard version		"TC"
Ambient air temperature	For storage	°C	- 40...+ 70
	For operation	°C	- 40...+ 50
Electric shock protection	Conforming to IEC/EN 61140	kV	~ 120 V and ~ 230 V: class II
		kV	~ 24 V: class III
Degree of protection	Conforming to IEC 60529		IP 40
Material	Body		Glass-reinforced polyamide 6
	Cone		Butadiene-styrene acrylic
Rated insulation voltage (Ui)	Conforming to IEC/EN 60947-1	V	250
Consumption		mA	~ 24: 440
		mA	~ 120: 110
		mA	~ 230: 55
Frequency	1-tone	Hz	1000 ± 10%
	2-tone	Hz	700 and 800 ± 15%
Rated impulse withstand voltage	Conforming to IEC/EN 60947-1	kV	~ 120 V and ~ 230 V: U imp = 4
		kV	~ 24 V: U imp = 1.5
Mounting position			All positions
Connection	Maximum clamping capacity	mm ²	1 x 1.5 with cable end

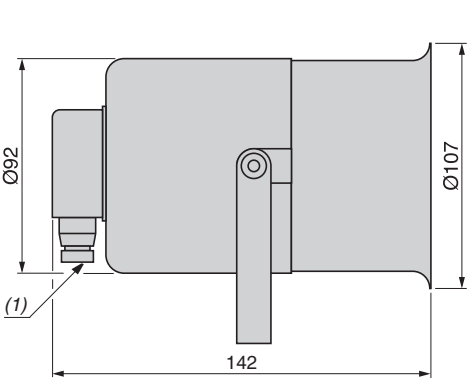
References



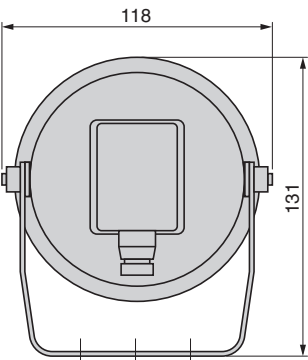
XVS B●

Sirens				
Description	Supply voltage	Number of tones	Reference	Weight kg
Sirens 106 db	~ 24 V	1	XVS B1	0.860
		2	XVS B2	0.860
	~ 120 V	1	XVS G1	0.860
		2	XVS G2	0.860
	~ 230 V	1	XVS M1	0.860
		2	XVS M2	0.860

Dimensions



(1) Cable gland n° 7 (DIN Pg 7), included.



Panel cut-out

