

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

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	U _{imp} = 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	mm²	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.

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Complete pre-cabled beacons and indicator banks



XVD ●●6

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
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
		~ 230 V	G-O	R	XVD M2GAR6	0.898
2 illuminated units + 1 audible "buzzer" unit	LED	≈ 24 V	G-R	–	XVD B2SGR	0.718
			O-R	–	XVD B2SAR	0.718
		~ 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
		~ 230 V	G-O-R	–	XVD M1SGAR	1.088
	LED	≈ 24 V	G-O-R	–	XVD B2SGAR	0.863
		~ 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).

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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 35096-EN/7.

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)

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



XVD C3●

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		
		Illuminated units	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		



XVD C4●●

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



XVB Z18

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		
		Illuminated units	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		



XVD C6●●

(1) Incandescent bulbs and LEDs: see page 35096-EN/7

Beacons and indicator banks

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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	Type	Reference	Weight kg
		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

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Accessories for customer assembled beacons and indicator banks



XVB Z02



XVB Z03/Z04



XVD C02



XVB C12



DL1 B00



DL1 B00/ DL1 BK00

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 Z00			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 B0J (1)	0.090
	24 V	10	DL1 B0B (1)	0.090
	48 V	10	DL1 B0E (1)	0.090
	120 V	10	DL1 B0G (1)	0.090
	230 V	10	DL1 B0M (1)	0.090

LEDs BA 15d base fitting	Voltage	Colour	Protected LED		Weight kg		
			Quantity	Reference			
~ 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	Voltage	Colour	Protected LED		Weight kg
			Quantity	Reference	
~ 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.

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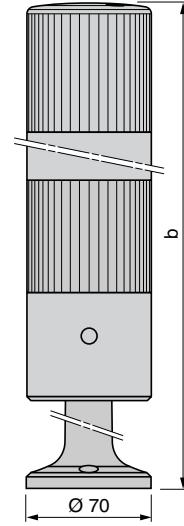
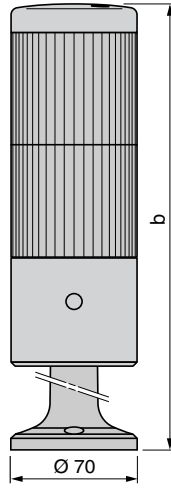
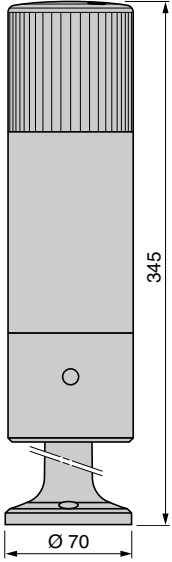
Dimensions

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●●●

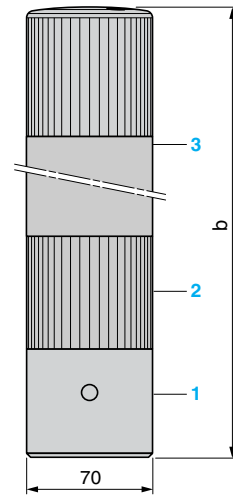
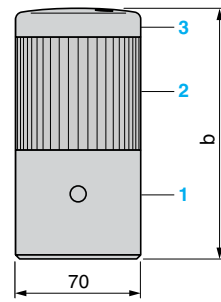
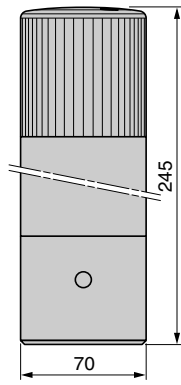
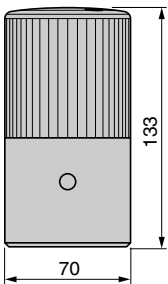
Customer assembled indicator banks XVD C●●●

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

With "flash" discharge tube, XVD L6●●

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)

- 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 (no "flash")	b
1	140
2	203
3	266
4	329
5	392

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

(1) Cover included with base unit XVD C21.

Beacons and indicator banks

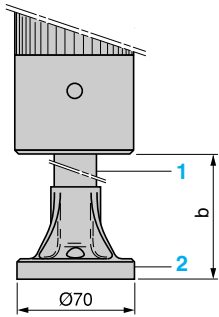
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Mounting

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

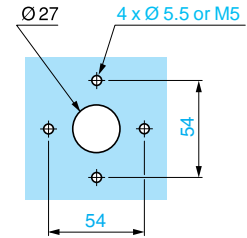
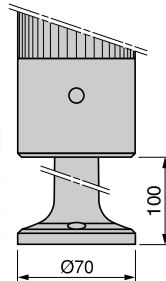
With fixing base XVD C02 (support tube with integral fixing plate)

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

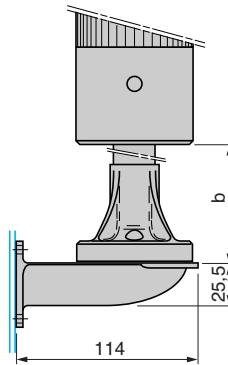
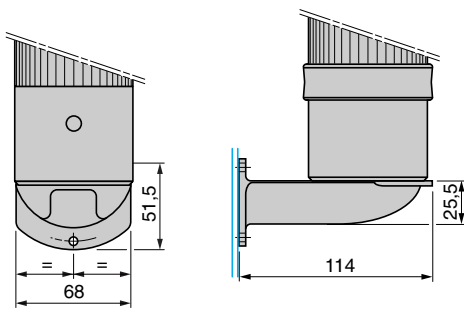


With fixing plate XVB C12 for use on vertical support

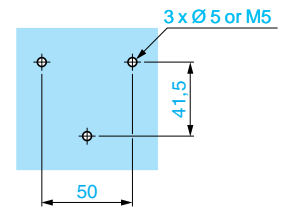
Direct mounting on base unit

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

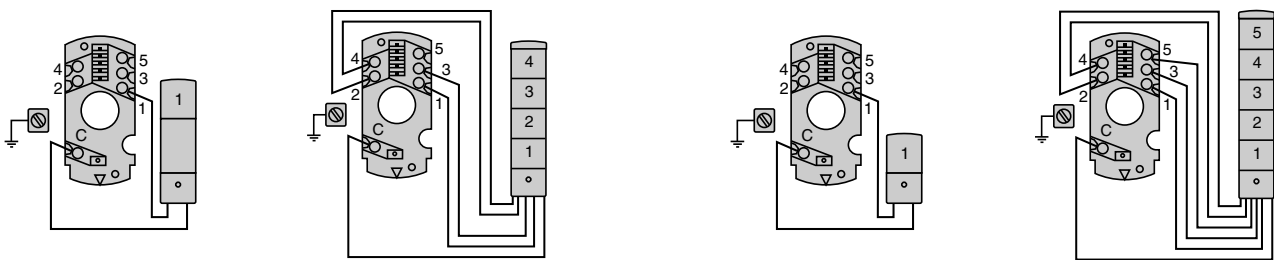


Installation

Connections

Complete pre-cabled beacons and indicator banks

Customer assembled beacons and indicator banks



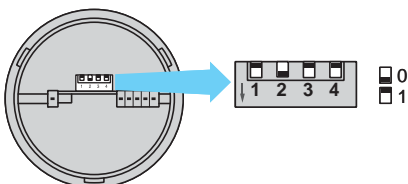
Wire colours of pre-assembled products:

- 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