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Sound solutions

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Signalling solutions
Harmony type XV

4

Harmony type XV		Monolithic tower lights	
			
Type of products		Complete pre-cabled pilot lights, height 55 mm	Complete miniature beacons
Diameter (mm)		Ø 25	Ø 45
Degree of protection conforming to IEC 60529		IP 40	IP 40
Type of signalling	Steady	–	■
	Flashing	–	–
	"Flash"	–	■
	Sound	–	–
Light sources	Incandescent bulb	■	■
	LED bulb	–	–
	Integral LED	–	–
	"Flash" discharge tube	–	■
	Halogen bulb	–	–
Colours of illuminated units		□ Green □ Red □ Clear □ Yellow	□ Green □ Red □ Orange □ Blue □ Clear □ Yellow
Connection		Flying leads, length 360 mm	Screw clamp terminals
Support panel drilling or cut-out		Ø 22 or Ø 30	3 x Ø 3.3 or M3
Type references		**XV1 CA**	**XVD LS**
Page(s)		Please consult your customer care centre	4/6

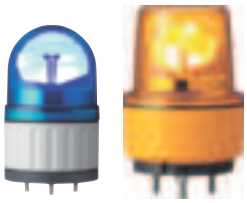
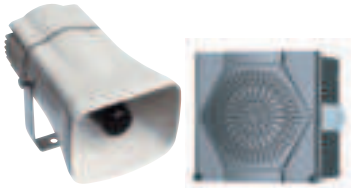


Pre-assembled and pre-cabled tower lights		
Ø 40	Ø 60	Ø 100
IP 54 (flat surface installation) IP 23 (vertical surface installation)		IP 54 (flat surface installation)
■		
■		
–		
■		
–		
–		
■		
–		
–		
□ Red □ Orange □ Green □ Blue □ Clear		
Flying leads, length 450 to 900 mm according to model (see page 35097-EN/3)	Flying leads, length 450 to 850 mm according to model (see page 35097-EN/3)	Flying leads, length 500 mm
Mounting on support tube with bracket: 2 x Ø 9 Direct mounting on horizontal support: 3 x Ø 5 Other mounting possibilities with accessories	Mounting on support tube with bracket: 2 x Ø 11 Direct mounting on horizontal support: 3 x Ø 5 Other mounting possibilities with accessories	Direct mounting on horizontal support: - 3 x Ø 6 (without siren) - 3 x Ø 7 (with siren) Other mounting possibilities with accessories
XVC 4	**XVC 6**	**XVC 1**
4/11	4/12	4/13

Signalling solutions
Harmony type XV

Harmony type XV		Modular tower lights		
				
Type of products		Pre-assembled/pre-cabled tower lights Variable composition tower lights for customer assembly of up to 5 units	Variable composition tower lights for customer assembly of up to 5 units	Illuminated beacons Variable composition tower lights for customer assembly of up to 5 units
Diameter (mm)		Ø 45	Ø 50	Ø 70
Degree of protection conforming to IEC 60529		IP 54 in vertical position (XVM with plastic fixing plate) IP 42 in horizontal position (XVM with metal bracket) IP 40 in other positions (all types of XVM tower lights)	IP 65 for illuminated units IP 43 for audible units	IP 42 mounted vertically IP 40 for other positions IP 54 with reinforced protection (using sealing kit)
Type of signalling	Steady	■	■	■
	Flashing	■	■	■
	"Flash"	■	–	■
	Sound	–	–	■
Light sources	Incandescent bulb	■	■	■
	LED bulb	■	■ "PROTECTED LED"	–
	Integral LED	–	–	■
	"Flash" discharge tube	■	■	■
	Halogen bulb	–	–	–
Colours of illuminated units		□ Red □ Green □ Orange □ Blue □ Clear	□ Green □ Red □ Orange □ Blue □ Clear □ Yellow	□ Green □ Red □ Orange □ Blue □ Clear
Connection		Flying leads, length 300 mm or screw terminals	Screw clamp terminals	Screw clamp terminals
Support panel drilling or cut-out		Mounting on bracket: 2 x Ø 9 Mounting on support tube: 4 x Ø 5.5 or M5	Mounting on bracket: 2 x Ø 9 Mounting on fixing base: 4 x Ø 5 or M5 Vertical mounting: 2 x Ø 4,5 Direct mounting: 4 x Ø 5 or M5	Mounting on support tube: 4 x Ø 5.5 or M5 Vertical mounting: 3 x Ø 5 or M5
Type references		**XVM**	**XVP C**	**XVE L, XVE C**
Page(s)		4/21	4/33	4/41



Illuminated beacons Variable composition tower lights for customer assembly of up to 5 units	Pre-cabled tower lights Tower lights for customer assembly of up to 5 units	Pre-cabled rotating beacons	Sirens and electronic alarms
Ø 70	Ø 70	Ø 84 to Ø 130	–
IP 65 (mounted on fixing base XVB Z0●) IP 66 (mounted on base unit)	IP 40	Ø 84 and 106: IP 23 (IP 65 with accessory) Ø 120: IP 23 Ø 130: IP 66 and IP 67 (depending on voltage)	IP 53 (sirens) IP 54 (electronic alarms)
■	■	■	–
■	■	–	–
■	■	–	–
■	■	■	■
■	■	–	–
■ “PROTECTED LED”	■ “PROTECTED LED”	■ “Super Bright”	–
■ “PROTECTED LED”	–	–	–
■	■	–	–
–	–	■	–
□ Green □ Red □ Orange □ Blue □ Clear □ Yellow	□ Green □ Red □ Orange □ Blue □ Clear □ Yellow	□ Red □ Orange □ Green □ Blue	–
Screw clamp terminals	Screw clamp terminals	Flying leads, length 400 mm (except XVR 08: 500 mm)	Screw clamp terminals (except XVS 14: flying leads, length 500 mm)
Mounting on support tube: 4 x Ø 5.5 or M5 Vertical mounting: 3 x Ø 5 or M5 Direct mounting: 2 x Ø 4.5 or M4		Depending on model: - XVR 08 (Ø 84 mm) : 3 x Ø 5 - XVR 10 (Ø 106 mm) : 3 x Ø 5 - XVR 12 (Ø 120 mm) : 3 x Ø 6 - XVR 13 (Ø 130 mm) : 3 x Ø 9 - XVR 13●●●L (Ø 130 mm) : 3 x Ø 7	3 x Ø 6.5
XVB L, XVB C	**XVD**	**XVR**	**XVS**
4/50	4/63	4/71	4/75

Signalling solutions
Monolithic tower lights
Harmony type XVD LS Ø 45 mm
Complete miniature beacons

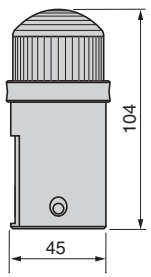
Presentation

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

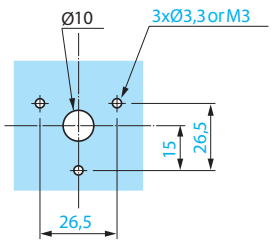
Characteristics

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 61140		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 EN/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 EN/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



Signalling solutions
Monolithic tower lights
Harmony type XVD LS Ø 45 mm
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

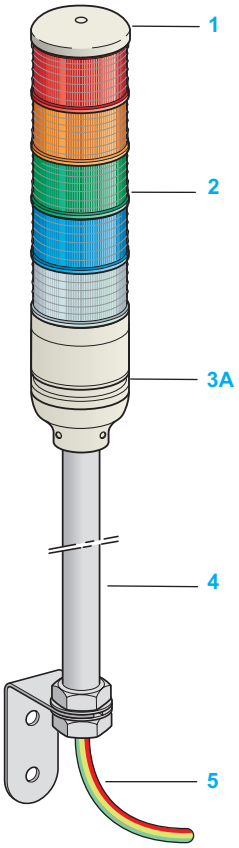
Description	Characteristics		Sold in lots of	Unit reference	Weight kg
Incandescent bulbs BA 15d base fitting	24 V	4 W	10	**DL1 BEBS**	0.090
	120 V	5 W	10	**DL1 BEGS**	0.090
	230 V	5 W	10	**DL1 BEMS**	0.090

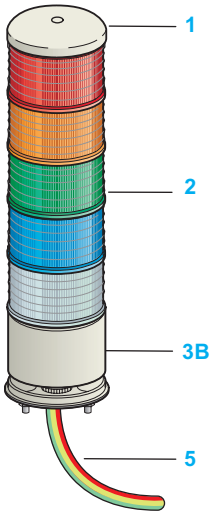
Beacons with 1 Joule “flash” discharge tube

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
	“Flash” discharge tube ∿ 120 V	Green	**XVD LS6G3**	0.085
		Red	**XVD LS6G4**	0.085
		Orange	**XVD LS6G5**	0.085
		Blue	**XVD LS6G6**	0.085
		Clear	**XVD LS6G7**	0.085
		Yellow	**XVD LS6G8**	0.085
	“Flash” discharge tube ∿ 230 V	Green	**XVD LS6M3**	0.085
		Red	**XVD LS6M4**	0.085
		Orange	**XVD LS6M5**	0.085
		Blue	**XVD LS6M6**	0.085
		Clear	**XVD LS6M7**	0.085
		Yellow	**XVD LS6M8**	0.085

Signalling solutions
Monolithic tower lights
Harmony type XVC Ø 40, Ø 60 and 100 mm
Pre-assembled and pre-cabled tower lights







Presentation

The monolithic tower lights in the Harmony XVC range are designed for long distance indication of the operating states or sequences of a machine or installation, either visually by means of illuminated signalling units visible through 360°, or audibly by means of an adjustable buzzer or siren.

■ The range includes small diameter products (40 and 60 mm) and larger diameter products (100 mm). It is therefore suitable for use in virtually all activity sectors :
□ XVC 4 (40 mm) tower lights are used mainly in the food-processing and medical sectors,
□ XVC 6 (60 mm) tower lights are used in semi-conductor factories, on conveyor belts and on small food or drink dispensing machines in the commercial sector,
□ XVC 1 (100 mm) tower lights are more particularly designed for industrial applications and machine-tools.

■ The entire range provides an IP 54 degree of protection to allow outdoor as well as indoor use.

■ XVC tower lights are supplied:
□ with 1, 2, 3, 4, or 5 illuminated signalling units (up to 3 for XVC 1●●HK),
□ with or without a buzzer or siren,
□ pre-assembled and pre-cabled,
□ fitted with a support tube and bracket for mounting on a vertical support or 3 screws for direct mounting on a horizontal surface (depending on the model).

Illuminated signalling

Several lens unit colours are available from the catalogue:
- 5 colours for XVC 1●●K and XVC 1●●SK (red, orange, green, blue or clear),
- 3 colours for XVC 1●●HK (red, orange, green).

The colours are always placed in that order, from top to bottom.
The light source consists of Super Bright LEDs which provide optimum luminosity.

Audible signalling

The tower light is supplied with or without an audible signalling unit (buzzer or siren) depending on the required configuration. This audible unit is located in the base of the tower light.

For products equipped with a buzzer, the type of signal (continuous or intermittent) can be reversed by modifying the cable connections (only for 60 and 100 mm units).
For products equipped with a siren, it is possible to choose between 16 melodies, either by a switch or by 4 external digital outputs.

A potentiometer is also present in the base for adjusting the audible signalling volume, up to a value of:
- 85 decibels for XVC 1●●K and XVC 1●●SK (equipped with a buzzer),
- 102 decibels for XVC 1●●HK (equipped with a siren).

Cabling

XVC tower lights supplied pre-assembled are equipped with wires marked with a label indicating the correct way to connect. Each level is marked by a different coloured wire.
XVC tower lights that have been pre-assembled and pre-cabled at the factory cannot be modified because the wires are permanently connected (soldered)

Description

XVC tower lights comprise an assembly of:

1 A cover.
2 One, two, three, four or five coloured illuminated signalling units (red, orange, green, blue or clear). Each illuminated unit is equipped with a LED (Super Bright LED).
3 A base mounted on the support tube **3A** or a base fitted with 3 screws **3B** for direct mounting on a horizontal surface.
4 A chromium plated-steel support tube mounted on a bracket, for mounting on a vertical support (depending on the model).
5 Marked wires, with projecting length of 500 to 900 mm (depending on the model).

Characteristics: page 4/9
References: page 4/11
Dimensions: page 4/14

Signalling solutions
Monolithic tower lights
Harmony type XVC Ø 40 and Ø 60 mm
Pre-assembled and pre-cabled tower lights

Environment characteristics

			XVC 4B● XVC 4B●5S XVC 4B●K	XVC 6B● XVC 6B●5S XVC 6B●K XVC 6B●5SK	XVC 4M● XVC 4M●5S	XVC 6M● XVC 6M●5S XVC 6M●K XVC 6M●5SK
Product certifications			CE (UL, CSA)		CE (UL, CSA and CCC)	
Conformity to standards			EN/IEC 61000-6-2, EN/IEC 61000-6-3	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN/IEC 61000-6-4	EN/IEC 60947-1, EN/IEC 60947-5-1	
Protective treatment			"TC"			
Ambient air temperature	Storage	**°C**	- 35…+ 70			
	Operation	**°C**	- 10…+ 50			
Electric shock protection conforming to IEC 61140	Mounted on support tube		Class I			
	Mounted on base		Class II		Class I	
Degree of protection conforming to IEC 60529	Mounted on support tube		IP 54 (Flat surface installation)			
			IP 23 (Vertical surface installation)			
	Mounted on base		IP 54 (Flat surface installation)			
Material	Top cover		PBT + ABS (UL94HB)		PBT + ABS (UL94V-0)	
	Illuminated lens unit		PC (polycarbonate)			
	Base		ABS or PBT + ABS			
	Support tube		SGP (chromium-plated)	STK (chromium-plated)	SGP (chromium-plated)	STK (chromium-plated)
	L mounting bracket		SPCC (Cr3 + chromium-plated)			
Light source			LED			

Electrical characteristics

				XVC 4B● XVC 4B●5S XVC 4B●K	XVC 6B● XVC 6B●5S XVC 6B●K XVC 6B●5SK	XVC 4M● XVC 4M●5S	XVC 6M● XVC 6M●5S XVC 6M●K XVC 6M●5SK
Rated voltage			**V**	⎓ 24		∿ 100 - 240	
Rated impulse withstand voltage			**kV**	0.8		4	
Consumption - at rated voltage (for XVC 4B● / XVC 6B●) **- at ∿ 100 V** (for XVC 4M● / XVC 6M●)	Steady light	1 unit	**mA**	25		30	35
		2 units	**mA**	50		45	50
		3 units	**mA**	75		60	
		4 units	**mA**	100		75	
		5 units	**mA**	125		90	
	Steady/flashing light with buzzer	1 unit	**mA**	65		50	60
		2 units	**mA**	90		65	75
		3 units	**mA**	115		80	85
		4 units	**mA**	140		95	100
		5 units	**mA**	165		110	115
Audible units	Sound level (continuous or intermittant tone) at 1 m		**dB**	70...85			
	Fundamental frequency		**kHz**	2.23			
Flashing frequency of illuminated units			**Hz**	1			
Connection	Cable diameter		mm^2	Wire c.s.a. 0.33 mm^2 / AWG 22 *(1)*		Wire c.s.a. 0.33 mm^2 / AWG 22 *(1)* Wire c.s.a. 0.83 mm^2 / SPT-1 AWG 18 *(1)*	
	Cable length		mm	600 for **XVC 4B●** 900 for **XVC 4B●5S** 500 for **XVC 4B●K**	600 for **XVC 6B●** 550 for **XVC 6B●5S** 850 for **XVC 6B●K** and **XVC 6B●5SK**	450	**XVC 6M●** : - 450 for signal - 550 for power - 550 for earth **XVC 6M●5S** : - 450 for signal - 450 for power - 450 for earth **XVC 6M●K** and **XVC 6M●5SK** : - 750 for signal - 850 for power - 850 for earth

(1) A.W.G. : American Wire Gauge.

Signalling solutions
Monolithic tower lights
Harmony type XVC Ø 100 mm
Pre-assembled and pre-cabled tower lights

Environment characteristics

Type of tower light				XVC 1B●K XVC 1B●SK	XVC 1M●K XVC 1M●SK	XVC 1B●HK	XVC 1M●HK
Product certifications				CE (UL, CSA)			
Conformity to standards				EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN/IEC 61000-6-4	EN/IEC 60947-1, EN/IEC 60947-5-1	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN/IEC 61000-6-4	EN/IEC 60947-1, EN/IEC 60947-5-1
Protective treatment				"TC"			
Ambient air temperature	Storage		**°C**	- 35…+ 70		- 35…+ 70	
	Operation		**°C**	- 30…+ 50		- 20…+ 50	
Electric shock protection conforming to IEC 61140	Mounted on support tube			–			
	Mounted on base			Class II	Class I	Class II	Class I
Degree of protection conforming to IEC 60529	Mounted on support tube			–			
	Mounted on base			IP 54 (Flat surface installation)			
Material	Top cover			PBT + ABS (UL94-V0)			
	Illuminated lens unit			PC (polycarbonate)			
	Base			PBT + ABS (UL94-V0)			
	Support tube			–			
	L mounting bracket			–			
Light source				LED			

Electrical characteristics

Rated voltage			**V**	⎓ 24	∼ 100 - 240	⎓ 24	∼ 100 - 240
Rated impulse withstand voltage			**kV**	0.8	4	0.8	4
Consumption **- at rated voltage** (for XVC 1B●) **- at ∼ 100 V** (for XVC 1M●)	Steady/flashing light	1 unit	**mA**	100	75	–	–
		2 units	**mA**	200	120	–	–
		3 units	**mA**	300	160	–	–
		4 units	**mA**	400	215	–	–
		5 units	**mA**	500	270	–	–
	Steady/flashing light with buzzer	1 unit	**mA**	150	85	460	235
		2 units	**mA**	250	130	550	280
		3 units	**mA**	350	170	660	320
		4 units	**mA**	450	230	–	–
		5 units	**mA**	550	280	–	–
Audible units	Sound level at 1 m		**dB**	60...85 (continuous or intermittant tone)		0...102	
Flashing frequency of illuminated units			**Hz**	0.7...3			
Connection	Cable diameter			Wire c.s.a.: 0.33 mm² / AWG 22 *(1)* Wire c.s.a.: 0.83 mm² / AWG 18 *(1)*			
	Cable length		**mm**	500			

(1) AWG: American Wire Gauge.

Presentation, description: page 4/8
References: page 4/11
Dimensions: page 4/14

Signalling solutions
Monolithic tower lights
Harmony type XVC Ø 40 mm
Pre-assembled and pre-cabled tower lights



XVC 4B5 *XVC 4B55S*

Pre-assembled and pre-cabled tower lights Ø 40 mm

Description	Light source (included)	Voltage V	Signalling colours *(1)* Steady	Flashing *(2)*	Reference	Weight kg
For support tube mounting, 17 mm						
Without buzzer	LED for steady light only	⎓ 24	R	–	**XVC 4B1**	0.500
			R, O	–	**XVC 4B2**	0.520
			R, O, G	–	**XVC 4B3**	0.540
			R, O, G, B	–	**XVC 4B4**	0.560
			R, O, G, B, C	–	**XVC 4B5**	0.580
		~ 100-240	R	–	**XVC 4M1**	0.720
			R, O	–	**XVC 4M2**	0.750
			R, O, G	–	**XVC 4M3**	0.780
			R, O, G, B	–	**XVC 4M4**	0.810
			R, O, G, B, C	–	**XVC 4M5**	0.840
With buzzer + flashing light	LED for steady or flashing light	⎓ 24	R	R	**XVC 4B15S**	0.600
			R, O	R, O	**XVC 4B25S**	0.620
			R, O, G	R, O, G	**XVC 4B35S**	0.640
			R, O, G, B	R, O, G, B	**XVC 4B45S**	0.660
			R, O, G, B, C	R, O, G, B, C	**XVC 4B55S**	0.680
		~ 100-240	R	R	**XVC 4M15S**	0.740
			R, O	R, O	**XVC 4M25S**	0.770
			R, O, G	R, O, G	**XVC 4M35S**	0.800
			R, O, G, B	R, O, G, B	**XVC 4M45S**	0.830
			R, O, G, B, C	R, O, G, B, C	**XVC 4M55S**	0.860
For base mounting						
Without buzzer	LED for steady light only	⎓ 24	R	–	**XVC 4B1K**	0.100
			R, O	–	**XVC 4B2K**	0.120
			R, O, G	–	**XVC 4B3K**	0.140
			R, O, G, B	–	**XVC 4B4K**	0.160
			R, O, G, B, C	–	**XVC 4B5K**	0.180



XVC Z11



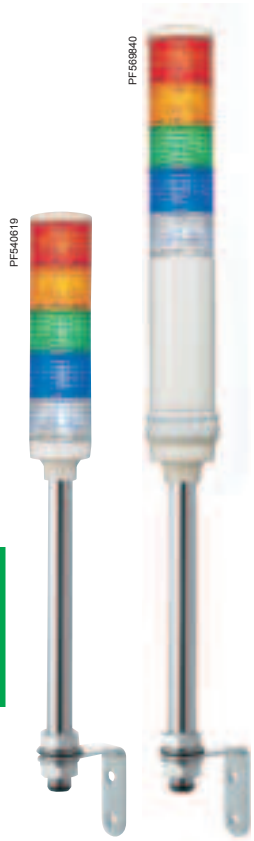
XVC Z31

Accessories for support tube mounting

Description	Diameter mm	Minimum height to be added mm	Reference	Weight kg
Metal fixing plate	90	32	**XVC Z11**	0.100
Plastic fixing plate	84	24.5	**XVC Z01**	0.060
Wall mounting bracket	–	82	**XVC Z31**	0.130

(1) Signalling colours: R: Red, O: Orange, G: Green, B: Blue, C: Clear. The colours are listed in the same order as the mounting order of the illuminated units (from top to bottom).
(2) Flashing function can be simply selected/programmed by wiring.

Signalling solutions
Monolithic tower lights
Harmony type XVC Ø 60 mm
Pre-assembled and pre-cabled tower lights



XVC 6B5 *XVC 6M5*



XVC 6B5K *XVC 6M5K*



XVC Z32

Pre-assembled and pre-cabled tower lights Ø 60 mm

Description	Light source (included)	Voltage V	Signalling colours (1) Steady	Signalling colours (1) Flashing (2)	Reference	Weight kg
For support tube mounting, 22 mm						
Without buzzer	LED for steady light only	⎓ 24	R	–	**XVC 6B1**	0.700
			R, O	–	**XVC 6B2**	0.740
			R, O, G	–	**XVC 6B3**	0.780
			R, O, G, B	–	**XVC 6B4**	0.820
			R, O, G, B, C	–	**XVC 6B5**	0.860
		∿ 100-240	R	–	**XVC 6M1**	0.960
			R, O	–	**XVC 6M2**	1.020
			R, O, G	–	**XVC 6M3**	1.070
			R, O, G, B	–	**XVC 6M4**	1.120
			R, O, G, B, C	–	**XVC 6M5**	1.180
With buzzer + flashing light	LED for steady or flashing light	⎓ 24	R	R	**XVC 6B15S**	0.900
			R, O	R, O	**XVC 6B25S**	0.940
			R, O, G	R, O, G	**XVC 6B35S**	0.980
			R, O, G, B	R, O, G, B	**XVC 6B45S**	1.020
			R, O, G, B, C	R, O, G, B, C	**XVC 6B55S**	1.060
		∿ 100-240	R	R	**XVC 6M15S**	1.010
			R, O	R, O	**XVC 6M25S**	1.070
			R, O, G	R, O, G	**XVC 6M35S**	1.120
			R, O, G, B	R, O, G, B	**XVC 6M45S**	1.170
			R, O, G, B, C	R, O, G, B, C	**XVC 6M55S**	1.230
For base mounting						
Without buzzer	LED for steady light only	⎓ 24	R	–	**XVC 6B1K**	0.200
			R, O	–	**XVC 6B2K**	0.250
			R, O, G	–	**XVC 6B3K**	0.300
			R, O, G, B	–	**XVC 6B4K**	0.350
			R, O, G, B, C	–	**XVC 6B5K**	0.400
		∿ 100-240	R	–	**XVC 6M1K**	0.440
			R, O	–	**XVC 6M2K**	0.500
			R, O, G	–	**XVC 6M3K**	0.550
			R, O, G, B	–	**XVC 6M4K**	0.600
			R, O, G, B, C	–	**XVC 6M5K**	0.660
With buzzer + flashing light	LED for steady or flashing light	⎓ 24	R	R	**XVC 6B15SK**	0.200
			R, O	R, O	**XVC 6B25SK**	0.250
			R, O, G	R, O, G	**XVC 6B35SK**	0.300
			R, O, G, B	R, O, G, B	**XVC 6B45SK**	0.350
			R, O, G, B, C	R, O, G, B, C	**XVC 6B55SK**	0.400
		∿ 100-240	R	R	**XVC 6M15SK**	0.490
			R, O	R, O	**XVC 6M25SK**	0.550
			R, O, G	R, O, G	**XVC 6M35SK**	0.600
			R, O, G, B	R, O, G, B	**XVC 6M45SK**	0.650
			R, O, G, B, C	R, O, G, B, C	**XVC 6M55SK**	0.710

Accessories for support tube mounting and base mounting

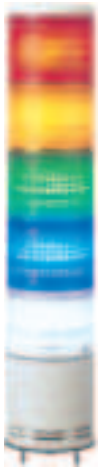
Description	For use with	Diameter mm	Minimum height to be added (mm)	Reference	Weight kg
Metal fixing plate for support-tube mounting	XVC 6●● and XVC 6●●5S	100	30	**XVC Z02**	0.080
Metal fixing plate for base mounting	XVC 6●● K and XVC 6●●5SK	84	21.6	**XVC Z12**	0.100
Wall mounting bracket for support-tube mounting	XVC 6●● and XVC 6●●5S	–	82	**XVC Z32**	0.130

(1) Signalling colours: R: Red, O: Orange, G: Green, B: Blue, C: Clear. The colours are listed in the same order as the mounting order of the illuminated units (from top to bottom).
(2) Flashing function can be simply selected/programmed by wiring.

Presentation, description: page 4/8
Characteristics: page 4/9
Dimensions: page 4/14

Signalling solutions
Monolithic tower lights
Harmony type XVC Ø 100 mm
Pre-assembled and pre-cabled tower lights

PF569833



PF540614



XVC 1●5K
XVC 1●5SK

XVC 1●3HK

Pre-assembled and pre-cabled tower lights Ø 100 mm

Description	Light source (included)	Voltage V	Signalling colours (1) Steady	Signalling colours (1) Flashing (2)	Reference	Weight kg
For base mounting						
Without buzzer With flashing light	LED for steady or flashing light	⎓ 24	R	R	**XVC 1B1K**	0.700
			R, O	R, O	**XVC 1B2K**	0.900
			R, O, G	R, O, G	**XVC 1B3K**	1.100
			R, O, G, B	R, O, G, B	**XVC 1B4K**	1.300
			R, O, G, B, C	R, O, G, B, C	**XVC 1B5K**	1.500
		∿ 100-240	R	R	**XVC 1M1K**	1.000
			R, O	R, O	**XVC 1M2K**	1.200
			R, O, G	R, O, G	**XVC 1M3K**	1.400
			R, O, G, B	R, O, G, B	**XVC 1M4K**	1.600
			R, O, G, B, C	R, O, G, B, C	**XVC 1M5K**	1.800
With buzzer + flashing light	LED for steady or flashing light	⎓ 24	R	R	**XVC 1B1SK**	0.700
			R, O	R, O	**XVC 1B2SK**	0.900
			R, O, G	R, O, G	**XVC 1B3SK**	1.100
			R, O, G, B	R, O, G, B	**XVC 1B4SK**	1.300
			R, O, G, B, C	R, O, G, B, C	**XVC 1B5SK**	1.500
		∿ 100-240	R	R	**XVC 1M1SK**	1.050
			R, O	R, O	**XVC 1M2SK**	1.250
			R, O, G	R, O, G	**XVC 1M3SK**	1.450
			R, O, G, B	R, O, G, B	**XVC 1M4SK**	1.650
			R, O, G, B, C	R, O, G, B, C	**XVC 1M5SK**	1.850
With siren + flashing light	LED for steady or flashing light	⎓ 24	R	R	**XVC 1B1HK**	1.580
			R, O	R, O	**XVC 1B2HK**	1.780
			R, O, G	R, O, G	**XVC 1B3HK**	1.980
		∿ 100-240	R	R	**XVC 1M1HK**	1.680
			R, O	R, O	**XVC 1M2HK**	1.880
			R, O, G	R, O, G	**XVC 1M3HK**	2.080

PF538686



XVC Z13

Accessories for mounting on vertical support

Description	For use with	Diameter mm	Height mm	Reference	Weight kg
Chromium plated-steel extension tube with metal fixing plate	XVC 1●●K and XVC 1●●SK	140	300	**XVC Z13**	0.700
	XVC 1●●HK (with siren)	140	306	**XVC Z14**	0.700
Metal fixing bracket	XVC 1●●K and XVC 1●●SK	–	–	**XVC Z23**	0.380
	XVC 1●●HK (with siren)	–	–	**XVC Z24**	0.380

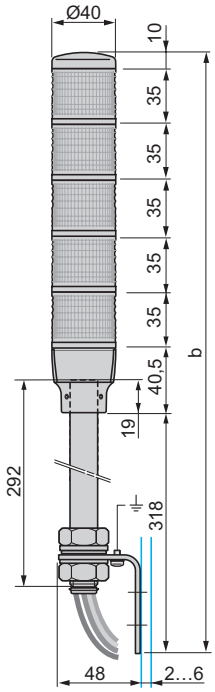
(1) Signalling colours: R: Red, O: Orange, G: Green, B: Blue, C: Clear. The colours are listed in the same order as the mounting order of the illuminated units (from top to bottom).
(2) Flashing function can be simply selected/programmed by wiring.

Signalling solutions
Monolithic tower lights
Harmony type XVC Ø 40 mm
Pre-assembled and pre-cabled tower lights

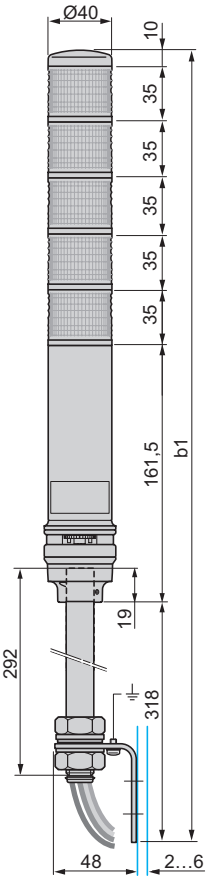
Pre-assembled and pre-cabled tower lights Ø 40 mm

With support tube mounting

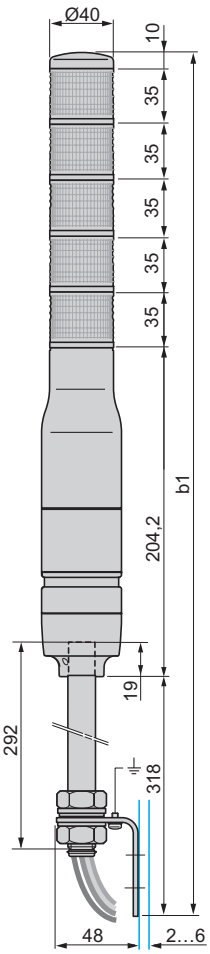
XVC 4B●

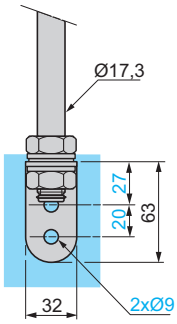


XVC 4B●5S



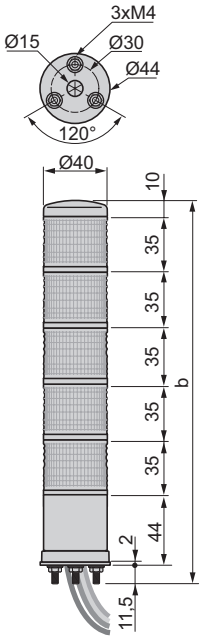
XVC 4M●, XVC 4M●5S



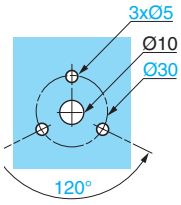


For direct mounting on horizontal support

XVC 4B●K



Panel cut-out



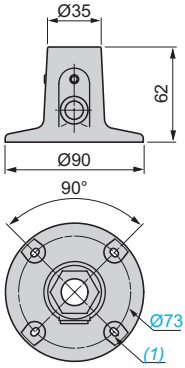
Height of pre-assembled and pre-cabled tower lights

No. of illuminated units	b Without buzzer (mm)	b1 With buzzer (mm)	
		XVC 4B●5S	XVC 4M●, XVC 4M●5S
1 stage	403.5	524.5	567.2
2 stages	438.5	559.5	602.2
3 stages	473.5	594.5	637.2
4 stages	508.5	629.5	672.2
5 stages	543.5	664.5	707.2

No. of illuminated units	b Without buzzer (mm)
1 stage	100.5
2 stages	135.5
3 stages	170.5
4 stages	205.5
5 stages	240.5

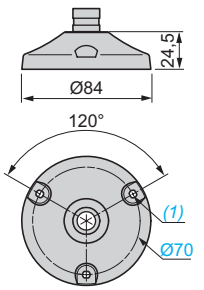
Accessories for tower lights type XVC 4●● and XVC 4●●5S

Metal fixing plate, XVC Z11



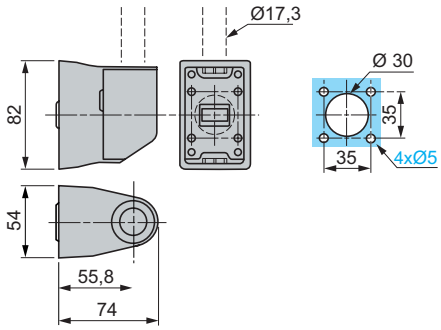
(1) 4 elongated holes Ø 4.2 x 5.

Plastic fixing plate, XVC Z01



(1) 3 elongated holes Ø 4.2 x 5

Wall mounting bracket, XVC Z31



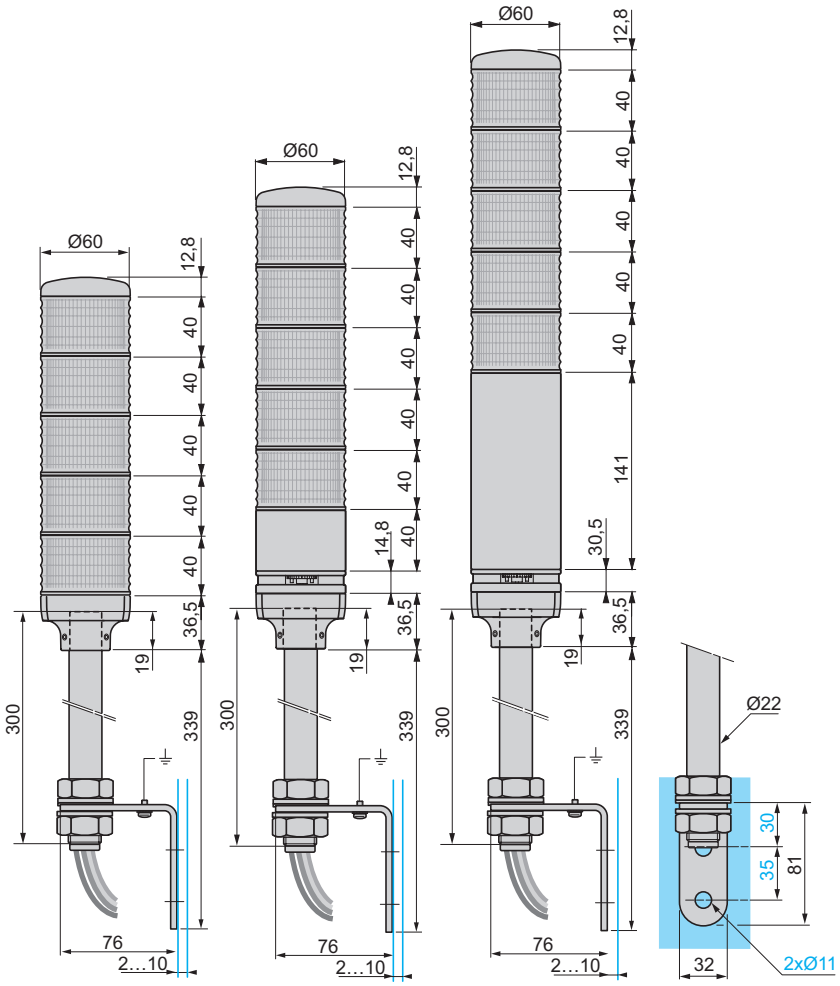
Presentation, description: page 4/8
Characteristics: page 4/9
References: page 4/11

Signalling solutions
Monolithic tower lights
Harmony type XVC Ø 60 mm
Pre-assembled and pre-cabled tower lights

Pre-assembled and pre-cabled tower lights Ø 60 mm

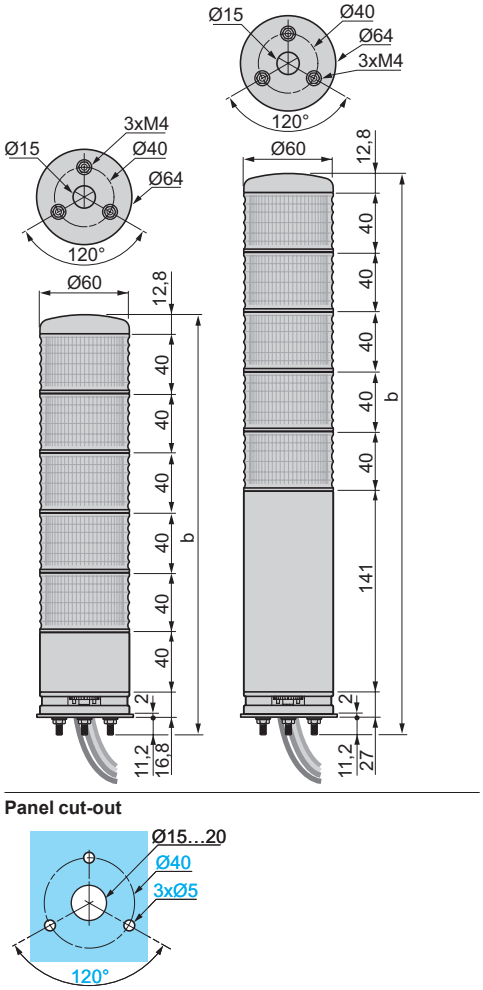
With support tube mounting

XVC 6B• | **XVC 6B•5S** | **XVC 6M•, XVC 6M•5S**



For mounting on horizontal support (direct or with fixing plate)

XVC 6B•K, 6B•5SK | **XVC 6M•K, XVC 6M•5SK**



Panel cut-out

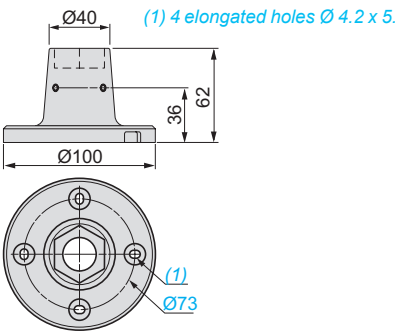
Height of pre-assembled and pre-cabled tower lights

No. of illuminated units	b Without buzzer (mm)	b1 With buzzer (mm)	
		XVC 6B•5S	XVC 6M•, XVC 6M•5S
1 stage	428.3	483.1	599.8
2 stages	468.3	523.1	639.8
3 stages	508.3	563.1	679.8
4 stages	548.3	603.1	719.8
5 stages	588.3	643.1	759.8

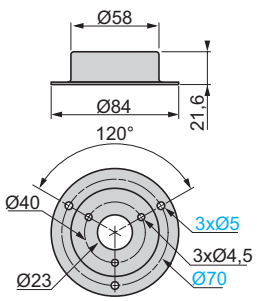
No. of illuminated units	b With or without buzzer (mm)	
	XVC 6B•K, XVC 6B•5SK	XVC 6M•K, XVC 6M•5SK
1 stage	120.8	232
2 stages	160.8	272
3 stages	200.8	312
4 stages	240.8	352
5 stages	280.8	392

Accessories for mounting on horizontal support

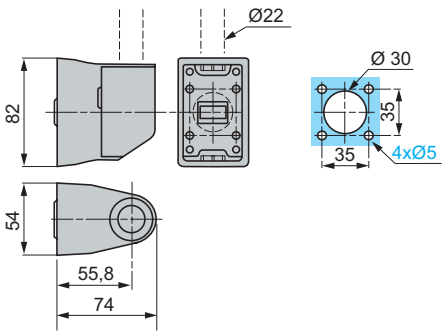
Fixing plate XVC Z02 for XVC 6•• / 6••5S



Fixing plate XVC Z12 for XVC 6••K / 6••5SK



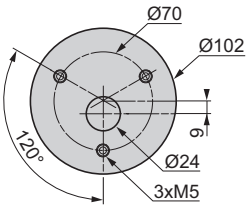
Wall mounting bracket XVC Z32 for XVC 6•• / 6••5S

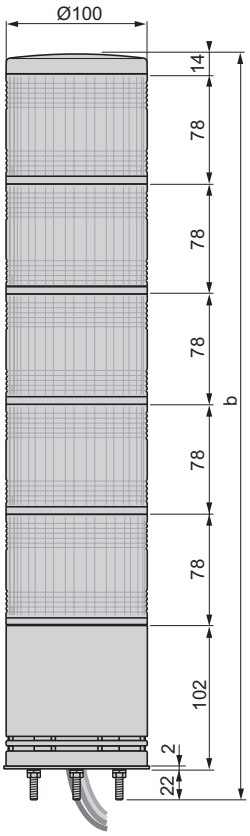


Pre-assembled and pre-cabled tower lights Ø 100 mm

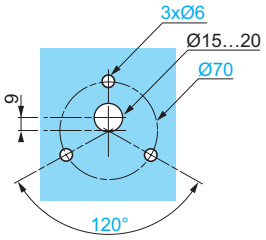
For mounting on horizontal support (direct or with fixing plate)

XVC 1●●K, XVC 1●●SK tower lights

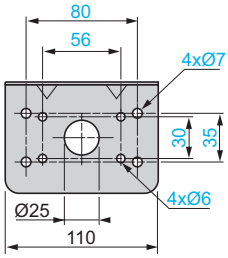


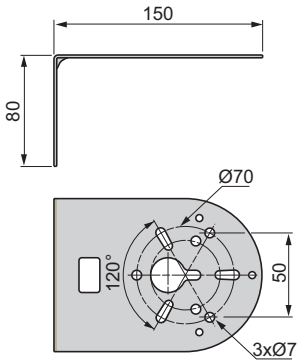


Panel cut-out

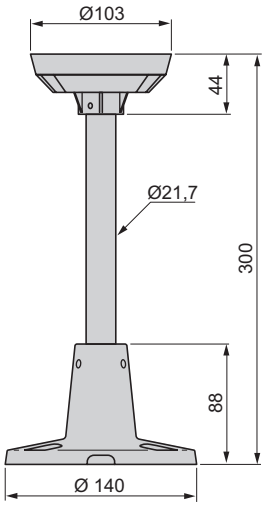


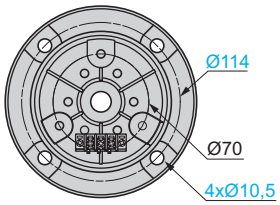
XVC Z23 fixing plate





XVC Z13 fixing plate





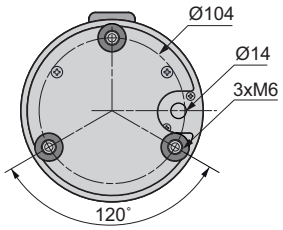
Height of pre-assembled and pre-cabled tower lights

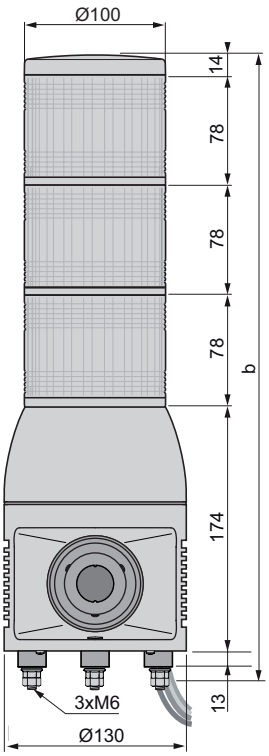
No. of illuminated units	b (mm)
1	216
2	294
3	372
4	450
5	528

Pre-assembled and pre-cabled tower lights Ø 100 mm with siren

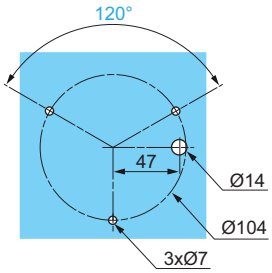
For mounting on horizontal support (direct or with fixing plate)

XVC 1●●HK tower lights





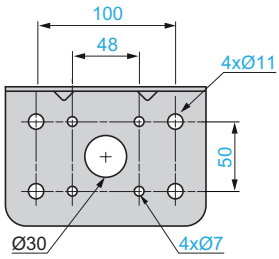
Panel cut-out

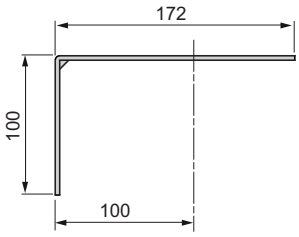


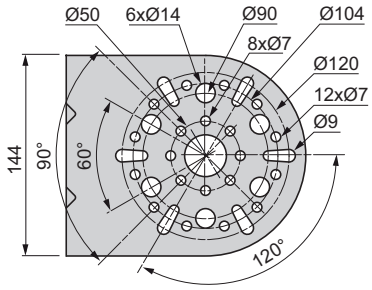
Height of pre-assembled and pre-cabled tower lights

No. of illuminated units	b (mm)
1	293
2	371
3	449

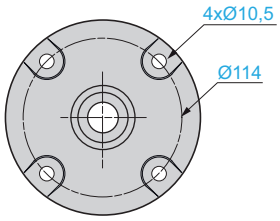
XVC Z24 fixing plate

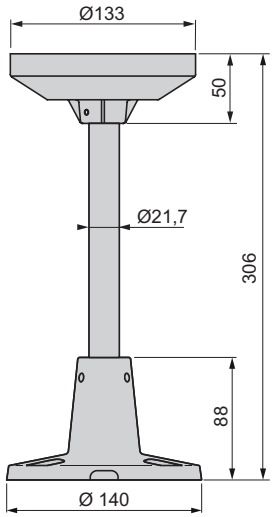


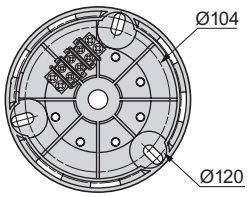




XVC Z14 fixing plate







4

Signalling solutions
Modular tower lights
Harmony type XVM Ø 45 mm
Pre-assembled/pre-cabled tower lights and tower lights for customer assembly



Tower lights XVM supplied pre-assembled and pre-cabled, with 1, 2, 3 or 4 illuminated units, each one fitted with a buzzer and with a fixing base

Presentation

Ø 45 mm tower lights XVM are available in 2 forms:
■ **Pre-assembled and pre-cabled** by Schneider Electric.
The tower lights are supplied:
□ with 1, 2, 3 or 4 illuminated signalling units,
□ with or without buzzer,
□ fitted with a fixing base for mounting on a vertical support (only one support possible) or an horizontal support (2 types of support available).
Pre-assembled and pre-cabled Ø 45 mm tower lights 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 “Super Bright” 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 tower light is supplied with or without an audible (buzzer) unit depending on the configuration required. The buzzer is housed in the base unit of the tower light.
□ There is also a potentiometer in the base unit for adjusting the volume of the audible signal, up to a value of 85 decibels.
□ A selector enables the choice of signalling: continuous or intermittent tone.

Modularity

■ Tower lights 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.

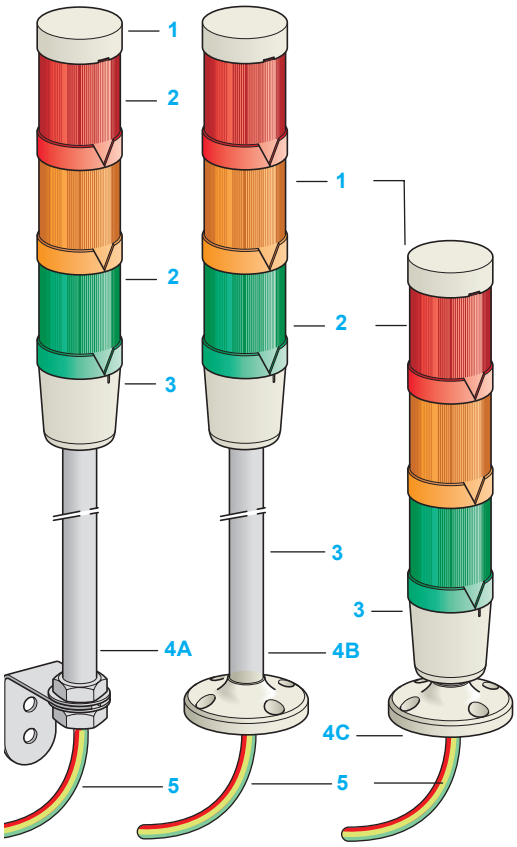
■ The light sources (incandescent bulb, Super Bright LED or “flash” discharge tube) are interchangeable. This enables, for example, the replacement of incandescent bulbs initially fitted in a tower light by LEDs (longer service life) in order to reduce maintenance operations. The current consumption 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

Tower lights XVM supplied pre-assembled feature referenced wires with a wiring instructions label. Each signalling unit of the tower light is identified by a different wire colour.

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Signalling solutions
Modular tower lights
Harmony type XVM Ø 45 mm
Pre-assembled/pre-cabled tower lights and tower lights for customer assembly



Description

Pre-assembled and pre-cabled tower lights

The pre-assembled XVM indicator banks comprise:

1 A cover.

2 One, two, three or four coloured illuminated units (red, orange, green or blue). Each illuminated unit is fitted with an incandescent bulb, a base mounted Super Bright LED with integrated light diffuser 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 for mounting on a vertical or horizontal support (depending on model).

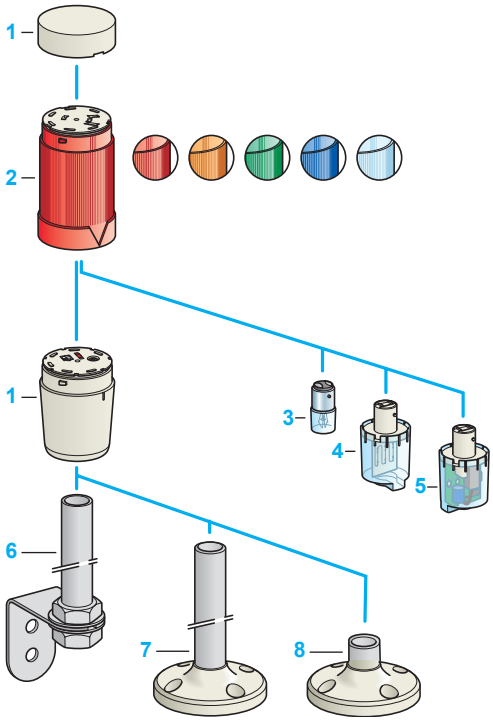
5 300 mm flying lead connections, each wire identified.

3 types of fixations are proposed:

4A A fixing base, comprising a 250 mm aluminium tube mounted on a bracket, for mounting on a vertical support.

4B A fixing base, comprising a 250 mm aluminium tube mounted on a plastic bracket, for mounting on an horizontal support.

4C A plastic fixing plate for direct mounting on the base unit.



Customer assembled tower lights

The customised composition of XVM tower lights is obtained by assembling:

1 A cover and a base unit, with or without integral buzzer.

2 5 illuminated units maximum *(1)*, 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 Super Bright LED with integrated light diffuser, 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 on a plastic fixing plate,

8 a plastic fixing plate for direct mounting under the base unit.

(1) Maximum configuration possibilities:
- *5 illuminated units mounted on base unit without buzzer.*
- *4 illuminated units mounted on base unit fitted with buzzer.*

Signalling solutions
Modular tower lights
Harmony type XVM Ø 45 mm
Pre-assembled/pre-cabled tower lights and tower lights for customer assembly

Environment

Degree of protection	Conforming to IEC 60529		IP 54 in horizontal position (XVM with plastic fixing base)
			IP 42 in vertical position (XVM with metal bracket)
			IP 40 in other positions (all types of XVM tower lights)
Product certifications			CCC
Approval			CE
Conformity to standards			EN/IEC 60947-1, EN/IEC 60947-5-1
Ambient air temperature	For storage	**°C**	- 25…+ 70
	For operation	**°C**	- 10…+ 50
Electric shock protection Conforming to IEC 61140	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**	**Super Bright LEDs**		**"Flash" discharge tube, 0.8 Joule**
				Steady light signalling	Flashing light signalling	
Rated insulation voltage (Ui)	Conforming to EN/IEC 60947-1	**V**	250			
Voltage limits	Conforming to IEC 60947-5-1		0.85…1.10 Un			
Light sources fixing 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 EN/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**	65
	On ∼ 120 V	**mA**	45
	On ∼ 230 V	**mA**	30
Power	Continuous or intermittent tone	**dB**	0…85 at 1 m
	Fundamental frequency	**kHz**	4 for continuous tone

Connection of illuminated and audible units

Terminal referencing			□ 1 terminal referenced **N**: common to all 5 units, including base unit fitted with buzzer □ 1 terminal referenced **B**: for base unit fitted with buzzer □ 4 terminals referenced **1** - **2** - **3** - **4**: for 4 illuminated units mounted on base unit fitted with buzzer □ 5 terminals referenced **1** - **2** - **3** - **4** - **5**: for 5 illuminated units mounted on base unit without buzzer
Connection	Flying leads on pre-cabled tower lights		Wire c.s.a.: 1 x 0.33 mm² / AWG 22 *(1)*
	Screw terminals		Max.: 1 x 1.5 mm² / AWG 16 *(1)* Min.: 1 x 0.33 mm² / AWG 22 *(1)*

(1) AWG : American Wire Gauge.

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Signalling solutions
Modular tower lights
Harmony type XVM Ø 45 mm
Pre-assembled/pre-cabled tower lights

PF100900



XVM ●● RWSB
XVM ●●RSWSB

Pre-assembled and pre-cabled tower lights with one illuminated unit

Description	Light source (included)	Voltage (V)	Signalling colour *(1)*			Reference	Weight kg
			Steady	Flashing	"Flash"		
With fixing base for mounting on horizontal support (plastic fixing plate)							
Without buzzer	Super Bright LED With integral light diffuser	⎓ 24	R	–	–	**XVM B2RWSB**	0.210
		∿ 120	R	–	–	**XVM G2RWSB**	0.210
		∿ 230	R	–	–	**XVM M2RWSB**	0.210
With buzzer integrated in base unit	Super Bright LED With integral light diffuser	⎓ 24	R	–	–	**XVM B2RSWSB**	0.210
		∿ 120	R	–	–	**XVM G2RSWSB**	0.210
		∿ 230	R	–	–	**XVM M2RSWSB**	0.210
With fixing base for mounting on horizontal support (250 mm aluminium support tube + plastic fixing plate)							
Without buzzer"	Super Bright LED With integral light diffuser	⎓ 24	R	–	–	**XVM B2RHSB**	0.260
		∿ 120	R	–	–	**XVM G2RHSB**	0.260
		∿ 230	R	–	–	**XVM M2RHSB**	0.260
With buzzer integrated in base unit	Super Bright LED With integral light diffuser	⎓ 24	R	–	–	**XVM B2RSHSB**	0.260
		∿ 120	R	–	–	**XVM G2RSHSB**	0.260
		∿ 230	R	–	–	**XVM M2RSHSB**	0.260
With fixing base for mounting on vertical support (250 mm aluminium support tube + metal bracket)							
Without buzzer	Super Bright LED With integral light diffuser	⎓ 24	R	–	–	**XVM B2RSB**	0.360
		∿ 120	R	–	–	**XVM G2RSB**	0.360
		∿ 230	R	–	–	**XVM M2RSB**	0.360
With buzzer integrated in base unit	Super Bright LED With integral light diffuser	⎓ 24	R	–	–	**XVM B2RSSB**	0.360
		∿ 120	R	–	–	**XVM G2RSSB**	0.360
		∿ 230	R	–	–	**XVM M2RSSB**	0.360

PF100901



XVM ●●RSB
XVM ●●RSSB

(1) Signalling colour: R: red.

Signalling solutions
Modular tower lights
Harmony type XVM Ø 45 mm
Pre-assembled/pre-cabled tower lights


PF100902

XVM ●●RAWSB
XVM ●●RASWSB


PF100917

XVM ●●RA
XVM ●●RASB
XVM ●●RAS
XVM ●●RASSB

Pre-assembled and pre-cabled tower lights with two illuminated units

Description	Light source (included)	Voltage (V)	Signalling colour *(1)* Steady	Flashing	"Flash"	Reference *(2)*	Weight kg
With fixing base for mounting on horizontal support (plastic fixing plate)							
Without buzzer	Super Bright LED With integral light diffuser	⎓ 24	R-O	–	–	**XVM B2RAWSB**	0.270
		∿ 120	R-O	–	–	**XVM G2RAWSB**	0.270
		∿ 230	R-O	–	–	**XVM M2RAWSB**	0.270
With buzzer integrated in base unit	Super Bright LED With integral light diffuser	⎓ 24	R-O	–	–	**XVM B2RASWSB**	0.270
		∿ 120	R-O	–	–	**XVM G2RASWSB**	0.270
		∿ 230	R-O	–	–	**XVM M2RASWSB**	0.270
With fixing base for mounting on vertical support (250 mm aluminium support tube + metal bracket)							
Without buzzer	Incandescent bulb, 5 W	⎓ 24	R-O	–	–	**XVM B1RA**	0.420
			R-G	–	–	**XVM B1RG**	0.420
		⎓ 120	R-O	–	–	**XVM G1RA**	0.420
			R-G	–	–	**XVM G1RG**	0.420
		⎓ 230	R-O	–	–	**XVM M1RA**	0.420
			R-G	–	–	**XVM M1RG**	0.420
	Super Bright LED With integral light diffuser	⎓ 24	R-O	–	–	**XVM B2RASB**	0.420
			R-G	–	–	**XVM B2RGSB**	0.420
			G	R	–	**XVM B2R5GSB**	0.420
			R	O	–	**XVM B2RA5SB**	0.420
			–	R-O	–	**XVM B2R5A5SB**	0.420
		∿ 120	R-O	–	–	**XVM G2RASB**	0.420
			R-G	–	–	**XVM G2RGSB**	0.420
			G	R	–	**XVM G2R5GSB**	0.420
			R	O	–	**XVM G2RA5SB**	0.420
			–	R-O	–	**XVM G2R5A5SB**	0.420
		∿ 230	R-O	–	–	**XVM M2RASB**	0.420
			R-G	–	–	**XVM M2RGSB**	0.420
			G	R	–	**XVM M2R5GSB**	0.420
			R	O	–	**XVM M2RA5SB**	0.420
			–	R-O	–	**XVM M2R5A5SB**	0.420
With buzzer integrated in base unit	Incandescent bulb, 5 W	⎓ 24	R-O	–	–	**XVM B1RAS**	0.420
			R-G	–	–	**XVM B1RGS**	0.420
		⎓ 120	R-O	–	–	**XVM G1RAS**	0.420
			R-G	–	–	**XVM G1RGS**	0.420
		⎓ 230	R-O	–	–	**XVM M1RAS**	0.420
			R-G	–	–	**XVM M1RGS**	0.420
	Super Bright LED With integral light diffuser	⎓ 24	R-O	–	–	**XVM B2RASSB**	0.420
			R-G	–	–	**XVM B2RGSSB**	0.420
			G	R	–	**XVM B2R5GSSB**	0.420
			R	O	–	**XVM B2RA5SSB**	0.420
			–	R-O	–	**XVM B2R5A5SSB**	0.420
		∿ 120	R-O	–	–	**XVM G2RASSB**	0.420
			R-G	–	–	**XVM G2RGSSB**	0.420
			G	R	–	**XVM G2R5GSSB**	0.420
			R	O	–	**XVM G2RA5SSB**	0.420
			–	R-O	–	**XVM G2R5A5SSB**	0.420
		∿ 230	R-O	–	–	**XVM M2RASSB**	0.420
			R-G	–	–	**XVM M2RGSSB**	0.420
			G	R	–	**XVM M2R5GSSB**	0.420
			R	O	–	**XVM M2RA5SSB**	0.420
			–	R-O	–	**XVM M2R5A5SSB**	0.420

(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).

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Signalling solutions
Modular tower lights
Harmony type XVM Ø 45 mm
Pre-assembled/pre-cabled tower lights


PF100903

XVM ●●RAHSB
XVM ●●RGHSB

Pre-assembled and pre-cabled tower lights with two illuminated units *(continued)*

Description	Light source (included)	Voltage (V)	Signalling colour *(1)* Steady	Flashing	"Flash"	Reference *(2)*	Weight kg
With fixing base for mounting on horizontal support (250 mm aluminium support tube + plastic fixing plate)							
Without buzzer	Super Bright LED With integral light diffuser	≂ 24	R-O	–	–	**XVM B2RAHSB**	0.320
			R-G	–	–	**XVM B2RGHSB**	0.320
		∿ 120	R-O	–	–	**XVM G2RAHSB**	0.320
			R-G	–	–	**XVM G2RGHSB**	0.320
		∿ 230	R-O	–	–	**XVM M2RAHSB**	0.320
			R-G	–	–	**XVM M2RGHSB**	0.320
With buzzer integrated in base unit	Super Bright LED With integral light diffuser	≂ 24	R-O	–	–	**XVM B2RASHSB**	0.320
			R-G	–	–	**XVM B2RGSHSB**	0.320
		∿ 120	R-O	–	–	**XVM G2RASHSB**	0.320
			R-G	–	–	**XVM G2RGSHSB**	0.320
		∿ 230	R-O	–	–	**XVM M2RASHSB**	0.320
			R-G	–	–	**XVM M2RGSHSB**	0.320

Pre-assembled and pre-cabled tower lights with three illuminated units

Description	Light source (included)	Voltage (V)	Signalling colour *(1)* Steady	Flashing	"Flash"	Reference *(2)*	Weight kg
With fixing base for mounting on horizontal support (plastic fixing plate)							
Without buzzer	Super Bright LED With integral light diffuser	≂ 24	R-O-G	–	–	**XVM B2RAGWSB**	0.320
		∿ 120	R-O-G	–	–	**XVM G2RAGWSB**	0.320
		∿ 230	R-O-G	–	–	**XVM M2RAGWSB**	0.320
With buzzer integrated in base unit	Super Bright LED With integral light diffuser	≂ 24	R-O-G	–	–	**XVM B2RAGSWSB**	0.320
		∿ 120	R-O-G	–	–	**XVM G2RAGSWSB**	0.320
		∿ 230	R-O-G	–	–	**XVM M2RAGSWSB**	0.320
With fixing base for mounting on horizontal support (250 mm aluminium support tube + plastic fixing plate)							
Without buzzer	Super Bright LED With integral light diffuser	≂ 24	R-O-G	–	–	**XVM B2RAGHSB**	0.380
			R-G	O	–	**XVM B2RA5GHSB**	0.380
		∿ 120	R-O-G	–	–	**XVM G2RAGHSB**	0.380
			R-G	O	–	**XVM G2RA5GHSB**	0.380
		∿ 230	R-O-G	–	–	**XVM M2RAGHSB**	0.380
			R-G	O	–	**XVM M2RA5GHSB**	0.380
With buzzer integrated in base unit	Super Bright LED With integral light diffuser	≂ 24	R-O-G	–	–	**XVM B2RAGSHSB**	0.380
			R-G	O	–	**XVM B2RA5GSHSB**	0.380
		∿ 120	R-O-G	–	–	**XVM G2RAGSHSB**	0.380
			R-G	O	–	**XVM G2RA5GSHSB**	0.380
		∿ 230	R-O-G	–	–	**XVM M2RAGSHSB**	0.380
			R-G	O	–	**XVM M2RA5GSHSB**	0.380


PF100907


PF100904

XVM ●●RAGHSB
XVM ●●RAGSHSB

XVM ●●RAGWSB
XVM ●●RAGSWSB

(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).

4

Signalling solutions
Modular tower lights
Harmony type XVM Ø 45 mm
Pre-assembled/pre-cabled tower lights

PF100908



XVM ●●RAG
XVM ●●RAGSB

PF100908



XVM ●●RAGS
XVM ●●RAGSSB

Pre-assembled and pre-cabled tower lights with three illuminated units *(continued)*

Description	Light source (included)	Voltage (V)	Signalling colour *(1)* Steady	Flashing	"Flash"	Reference *(2)*	Weight kg
With fixing base for mounting on vertical support (250 mm aluminium support tube + metal bracket)							
Without buzzer	Incandescent bulb, 5 W	⎓ 24	R-O-G	–	–	**XVM B1RAG**	0.480
			O-G	–	R	**XVM B1R6AG**	0.480
		⎓ 120	R-O-G	–	–	**XVM G1RAG**	0.480
			O-G	–	R	**XVM G1R6AG**	0.480
		⎓ 230	R-O-G	–	–	**XVM M1RAG**	0.480
			O-G	–	R	**XVM M1R6AG**	0.480
	Super Bright LED with integral light diffuser	⎓ 24	R-O-G	–	–	**XVM B2RAGSB**	0.480
			O-G	–	R	**XVM B2R6AGSB**	0.480
			R-G	O	–	**XVM B2RA5GSB**	0.480
			G	R-O	–	**XVM B2R5A5GSB**	0.480
			G	O	R	**XVM B2R6A5GSB**	0.480
		∿ 120	R-O-G	–	–	**XVM G2RAGSB**	0.480
			O-G	–	R	**XVM G2R6AGSB**	0.480
			R-G	O	–	**XVM G2RA5GSB**	0.480
			G	R-O	–	**XVM G2R5A5GSB**	0.480
			G	O	R	**XVM G2R6A5GSB**	0.480
		∿ 230	R-O-G	–	–	**XVM M2RAGSB**	0.480
			O-G	–	R	**XVM M2R6AGSB**	0.480
			R-G	O	–	**XVM M2RA5GSB**	0.480
			G	R-O	–	**XVM M2R5A5GSB**	0.480
			G	O	R	**XVM M2R6A5GSB**	0.480
With buzzer integrated in base unit	Incandescent bulb, 5 W	⎓ 24	R-O-G	–	–	**XVM B1RAGS**	0.480
			O-G	–	R	**XVM B1R6AGS**	0.480
		⎓ 120	R-O-G	–	–	**XVM G1RAGS**	0.480
			O-G	–	R	**XVM G1R6AGS**	0.480
		⎓ 230	R-O-G	–	–	**XVM M1RAGS**	0.480
			O-G	–	R	**XVM M1R6AGS**	0.480
	Super Bright LED with integral light diffuser	⎓ 24	R-O-G	–	–	**XVM B2RAGSSB**	0.480
			O-G	–	R	**XVM B2R6AGSSB**	0.480
			R-G	O	–	**XVM B2RA5GSSB**	0.480
			G	R-O	–	**XVM B2R5A5GSSB**	0.480
			G	O	R	**XVM B2R6A5GSSB**	0.480
		∿ 120	R-O-G	–	–	**XVM G2RAGSSB**	0.480
			O-G	–	R	**XVM G2R6AGSSB**	0.480
			R-G	O	–	**XVM G2RA5GSSB**	0.480
			G	R-O	–	**XVM G2R5A5GSSB**	0.480
			G	O	R	**XVM G2R6A5GSSB**	0.480
		∿ 230	R-O-G	–	–	**XVM M2RAGSSB**	0.480
			O-G	–	R	**XVM M2R6AGSSB**	0.480
			R-G	O	–	**XVM M2RA5GSSB**	0.480
			G	R-O	–	**XVM M2R5A5GSSB**	0.480
			G	O	R	**XVM M2R6A5GSSB**	0.480

(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).

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Signalling solutions
Modular tower lights
Harmony type XVM Ø 45 mm
Pre-assembled/pre-cabled tower lights

PF-100909



XVM ●●RAGBWSB
XVM ●●RAGBSWSB

PF-100910



XVM ●●RAGBHSB
XVM ●●RAGBSHSB

Pre-assembled and pre-cabled tower lights with four illuminated units

Description	Light source (included)	Voltage (V)	Signalling colour *(1)* Steady	Flashing	"Flash"	Reference *(2)*	Weight kg
With fixing base for mounting on horizontal support (plastic fixing plate)							
Without buzzer	Super Bright LED With integral light diffuser	⎓ 24	R-O-G-B	–	–	**XVM B2RAGBWSB**	0.390
		∿ 120	R-O-G-B	–	–	**XVM G2RAGBWSB**	0.390
		∿ 230	R-O-G-B	–	–	**XVM M2RAGBWSB**	0.390
With buzzer integrated in base unit	Super Bright LED With integral light diffuser	⎓ 24	R-O-G-B	–	–	**XVM B2RAGBSWSB**	0.390
		∿ 120	R-O-G-B	–	–	**XVM G2RAGBSWSB**	0.390
		∿ 230	R-O-G-B	–	–	**XVM M2RAGBSWSB**	0.390
With fixing base for mounting on horizontal support (250 mm aluminium support tube + plastic fixing plate)							
Without buzzer	Super Bright LED With integral light diffuser	⎓ 24	R-O-G-B	–	–	**XVM B2RAGBHSB**	0.440
		∿ 120	R-O-G-B	–	–	**XVM G2RAGBHSB**	0.440
		∿ 230	R-O-G-B	–	–	**XVM M2RAGBHSB**	0.440
With buzzer integrated in base unit	Super Bright LED With integral light diffuser	⎓ 24	R-O-G-B	–	–	**XVM B2RAGBSHSB**	0.440
		∿ 120	R-O-G-B	–	–	**XVM G2RAGBSHSB**	0.440
		∿ 230	R-O-G-B	–	–	**XVM M2RAGBSHSB**	0.440
With fixing base for mounting on vertical support (250 mm aluminium support tube + metal bracket)							
Without buzzer	Incandescent bulb, 5 W	⎓ 24	R-O-G-B	–	–	**XVM B1RAGB**	0.540
		⎓ 120	R-O-G-B	–	–	**XVM G1RAGB**	0.540
		⎓ 230	R-O-G-B	–	–	**XVM M1RAGB**	0.540
	Super Bright LED With integral light diffuser	⎓ 24	R-O-G-B	–	–	**XVM B2RAGBSB**	0.540
		∿ 120	R-O-G-B	–	–	**XVM G2RAGBSB**	0.540
		∿ 230	R-O-G-B	–	–	**XVM M2RAGBSB**	0.540
With buzzer integrated in base unit	Incandescent bulb, 5 W	⎓ 24	R-O-G-B	–	–	**XVM B1RAGBS**	0.540
		⎓ 120	R-O-G-B	–	–	**XVM G1RAGBS**	0.540
		⎓ 230	R-O-G-B	–	–	**XVM M1RAGBS**	0.540
	Super Bright LED With integral light diffuser	⎓ 24	R-O-G-B	–	–	**XVM B2RAGBSSB**	0.540
		∿ 120	R-O-G-B	–	–	**XVM G2RAGBSSB**	0.540
		∿ 230	R-O-G-B	–	–	**XVM M2RAGBSSB**	0.540

(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).

Signalling solutions
Modular tower lights
Harmony type XVM Ø 45 mm
Tower lights for customer assembly


PF100914

XVM C3●


PF100918

XVM C29●


121255

XVM Z02


121257

XVM Z02T


PF100915

XVM Z06

Customer assembled tower lights

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**	0.100
	Base unit with integral 85 dB buzzer	⎓ 24	White	**XVM C29B**	0.100
		~ 120	White	**XVM C29G**	0.100
		~ 230	White	**XVM C29M**	0.100
Base unit and cover + fixing base (250 mm support tube + bracket)	Base unit without buzzer	–	White	**XVM C213T**	0.300
	Base unit with integral 85 dB buzzer	⎓ 24	White	**XVM C29B3T**	0.300
		~ 120	White	**XVM C29G3T**	0.300
		~ 230	White	**XVM C29M3T**	0.300

Fixing bases

Description	Length mm	Height under base unit mm	Colour	Reference	Weight kg
Ø 20 mm aluminium support tube + plastic fixing plate	100	106	White	**XVM Z02**	0.100
	250	256	White	**XVM Z03**	0.100
	400	406	White	**XVM Z04**	0.200
Ø 20 mm aluminium support tube + metal bracket	100	113	–	**XVM Z02T**	0.200
	250	263	–	**XVM Z03T**	0.200
	400	413	–	**XVM Z04T**	0.300
Plastic fixing plate	–	–	White	**XVM Z06**	0.300

Presentation, description: page 4/18
Characteristics: page 4/20
Dimensions: page 4/28

Signalling solutions
Modular tower lights
Harmony type XVM Ø 45 mm
Tower lights for customer assembly


121259

DL1 ED●S


121260

DL2 E●●●SB


121261

DL6 B●

Customer assembled tower lights *(continued)*

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
Super Bright LEDs with integral light diffuser	□ 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●B1SB**	0.020
				Green	**DL2 E●B3SB**	0.020
				Red	**DL2 E●B4SB**	0.020
				Blue	**DL2 E●B6SB**	0.020
				Orange	**DL2 E●B8SB**	0.020
		1	∼ 120	White	**DL2 E●G1SB**	0.020
				Green	**DL2 E●G3SB**	0.020
				Red	**DL2 E●G4SB**	0.020
				Blue	**DL2 E●G6SB**	0.020
				Orange	**DL2 E●G8SB**	0.020
		1	∼ 230	White	**DL2 E●M1SB**	0.020
				Green	**DL2 E●M3SB**	0.020
				Red	**DL2 E●M4SB**	0.020
				Blue	**DL2 E●M6SB**	0.020
				Orange	**DL2 E●M8SB**	0.020
"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.

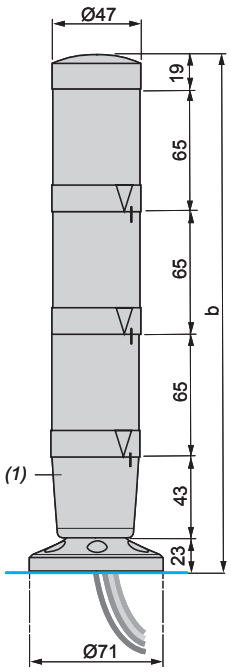
Accessories for pre-assembled/pre-cabled and customer assembled tower lights

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

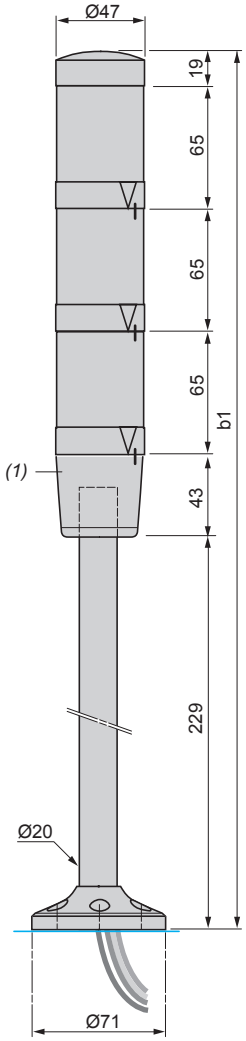
Signalling solutions
Modular tower lights
Harmony type XVM Ø 45 mm
Pre-assembled/pre-cabled tower lights

Pre-assembled and pre-cabled tower lights

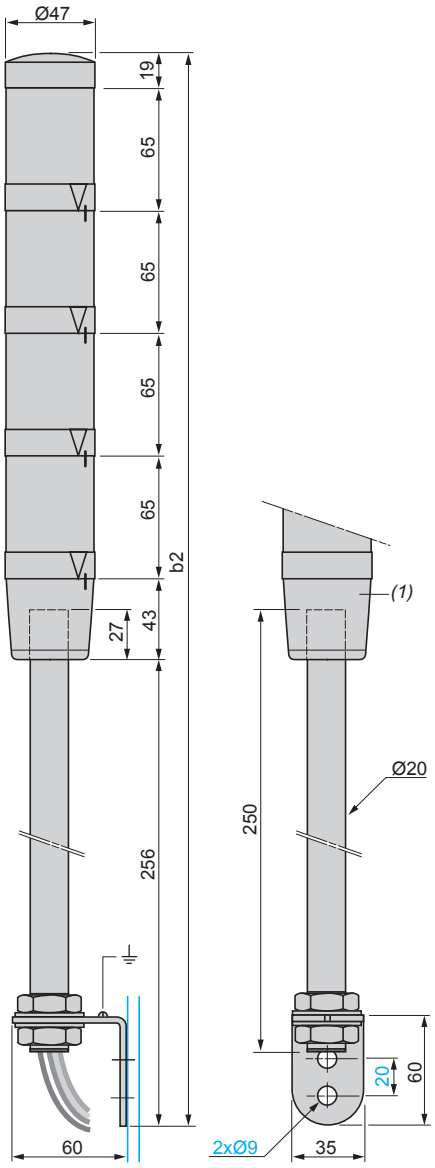
With fixing base for mounting on horizontal support (plastic fixing plate)



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



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

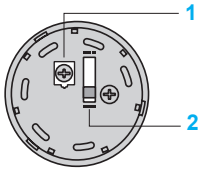


(1) Base unit with or without buzzer.

Height of pre-assembled and pre-cabled tower lights

Number of illuminated units	b (mm)	b1 (mm)	b2 (mm)
1 unit	150	356	383
2 units	215	421	448
3 units	280	486	513
4 units	345	551	578

Adjustment of audible signal on buzzer type unit



Base unit with integral buzzer (viewed from above)

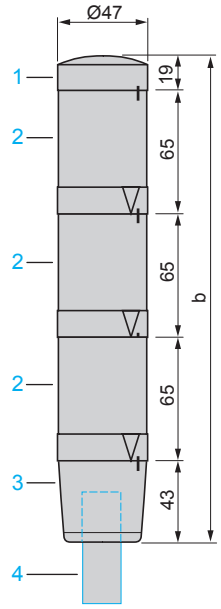
1 Volume adjustment potentiometer: 0 to 85 dB. Use either a cross headed or flat tipped screwdriver.

2 2-position selector for type of audible signal:
- —— continuous tone
- - - - intermittent tone

Presentation, description: page 4/18
Characteristics: page 4/20
References: page 4/21

Signalling solutions
Modular tower lights
Harmony type XVM Ø 45 mm
Tower lights for customer assembly

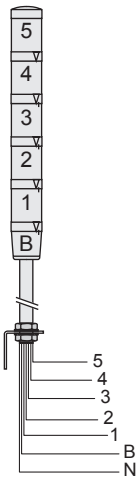
Customer assembled tower lights



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

Number of illuminated units (ref. 2)	b (mm)
1	127
2	192
3	257
4	322
5	387

Connecting 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)

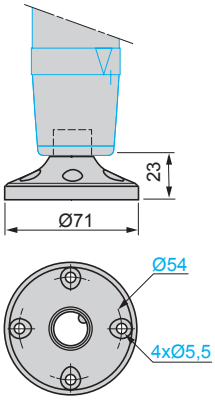
Indicator bank without buzzer
5: 5th illuminated unit (red wire)
4: 4th illuminated unit (yellow wire)
3: 3rd illuminated unit (green wire)
2: 2nd illuminated unit (white wire)
1: 1st illuminated unit (blue wire)
N: common (black wire)

Maximum capacity for wiring through support tube:
- 6 wires x 1 mm²,
- 5 wires x 1.5 mm²

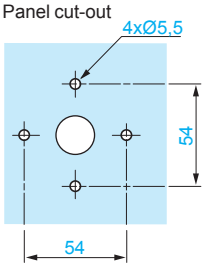
4

Fixing bases

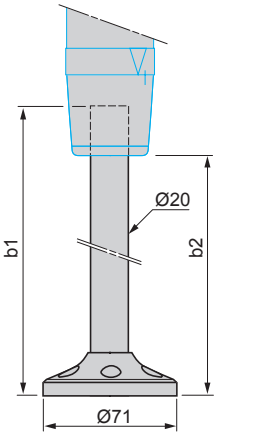
XVM Z06, for mounting on horizontal support



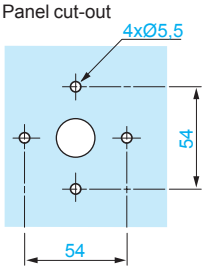
Panel cut-out



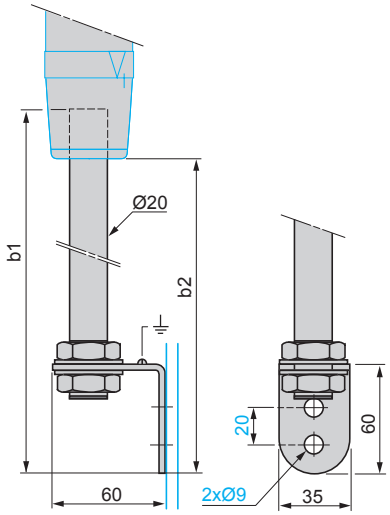
XVM Z0●, for mounting on horizontal support



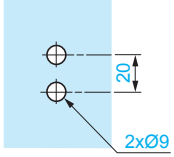
Panel cut-out



XVM Z0●T, for mounting on vertical support



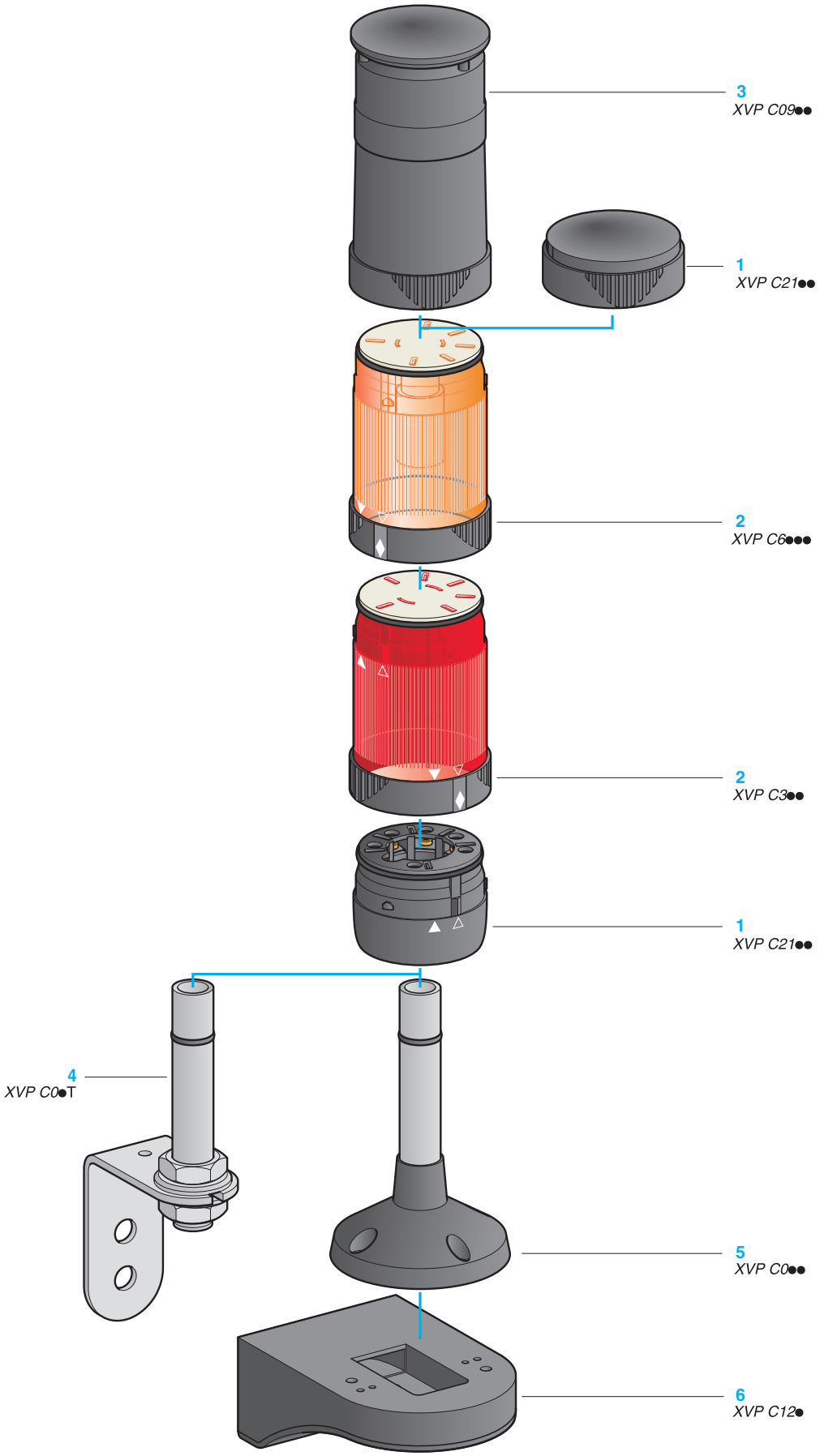
Panel cut-out



Support tube length	b1 (tube + plate)	b2 (height under base unit)
100	106	79
250	256	229
400	406	379

Support tube length	b1 (tube + bracket)	b2 (height under base unit)
100	133	106
250	283	256
400	433	406

Signalling solutions
Modular tower lights
Harmony type XVP C Ø 50 mm
Tower lights for customer assembly (up to 5 units)



Signalling solutions
Modular tower lights
Harmony type XVP C Ø 50 mm
Tower lights for customer assembly (up to 5 units)

Tower lights 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 tower light

Customer assembled product

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

Characteristics: page 4/32
References: page 4/33
Dimensions: page 4/36

Signalling solutions
Modular tower lights
Harmony type XVP C Ø 50 mm
Tower lights for customer assembly (up to 5 units)

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 EN/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**	⎓ 24 V: < 47
				∿ 120 V: < 17
				∿ 230 V: < 17
		Flashing light signalling	**mA**	⎓ 24 V: < 47
				∿ 120 V: < 17
				∿ 230 V: < 17
	Illuminated "flash" unit (discharge tube)	On power-up	**mA**	⎓ 24 V: ≤ 100
			mA	∿ 120 V: ≤ 20
			mA	∿ 230 V: ≤ 11
	Audible units		**mA**	⎓ 24 V: ≤ 15
			mA	∿ 120 V: ≤ 15
			mA	∿ 230 V: ≤ 12
Rated impulse withstand voltage	Conforming to EN/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 ± 3 max., 55 ± 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		**mm²**	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)

Presentation: page 4/31 References: page 4/33 Dimensions: page 4/36

Signalling solutions
Modular tower lights
Harmony type XVP C Ø 50 mm
Tower lights for 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

Signalling solutions
Modular tower lights
Harmony type XVP C Ø 50 mm
Tower lights for 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

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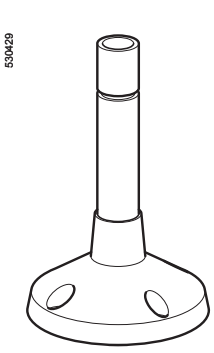
Signalling solutions
Modular tower lights
Harmony type XVP C Ø 50 mm
Tower lights for customer assembly (up to 5 units)
Base units, covers and accessories



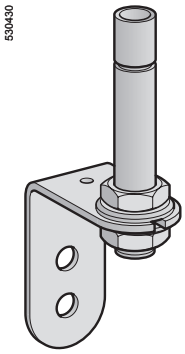
XVP C21



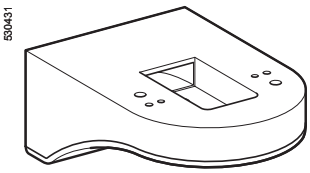
XVP C21W●



XVP C0●●



XVP C0●T



XVP C12●

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

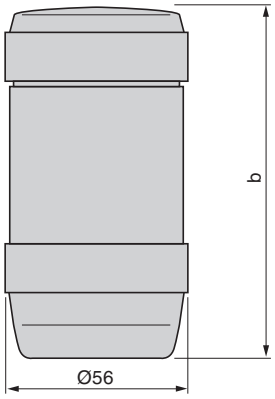
Description	Height under base unit mm	Reference	Weight kg
Aluminium support tube with integral black fixing base	89	**XVP C02**	0.112
	237	**XVP C03**	0.173
	387	**XVP C04**	0.253
Aluminium support tube with integral cream fixing base	89	**XVP C02W**	0.112
	237	**XVP C03W**	0.173
	387	**XVP C04W**	0.253
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

Signalling solutions
Modular tower lights
Harmony type XVP C Ø 50 mm
Tower lights for customer assembly (up to 5 units)

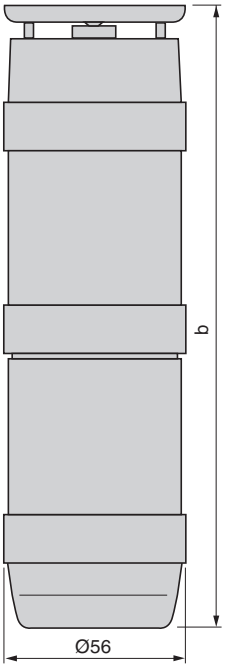
Tower lights XVP C●●●

Without audible unit



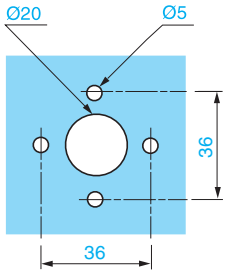
Number of illuminated units	b
1	108
2	170
3	232
4	294
5	356

With audible unit



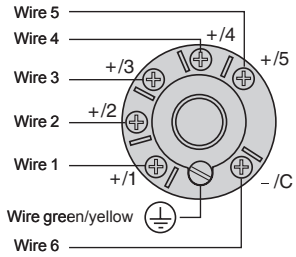
Number of units: Illuminated	+ Audible	b
0	+ 1	129
1	+ 1	194
2	+ 1	256
3	+ 1	318
4	+ 1	380

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

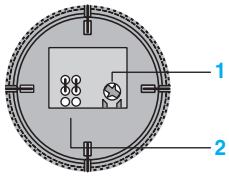


Installation

Connections



Adjustment of audible signal for buzzers type XVP C09●



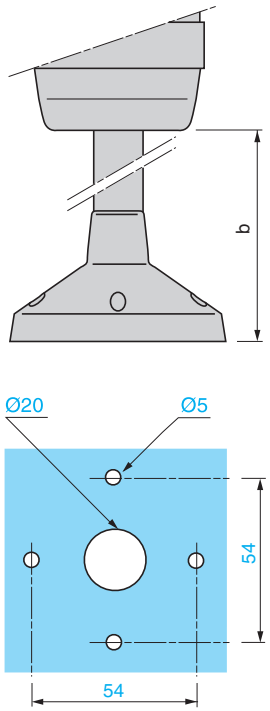
1 Volume adjustment potentiometer: 55…85 dB. Use either a cross headed or flat tipped screwdriver.
2 Adjustment of type of audible signal according to position of 2 links. Use flat-nose pliers.
3 10 configurations are possible, see table below. Factory set on position **5**: continuous tone.

3	Position of links	Type of audible signal		Position of links	Type of audible signal
1	5–6 / 1–2	Hz 1000 / 800, 0,25, 0,25, s	6	5 / 6 / 1 / 2	
2	5 / 6 / 1–2	Hz 1200 / 500, 3, 0,5, s	7	5–6 / 1 / 2	Hz 1000 / 800, 0,14, s
3	5–6 / 1 / 2	Hz 1200 / 500, 1, s	8	5 / 6 / 1 / 2	Hz 2900 / 2400, 0,02, s
4	5 / 6 / 1–2	Hz 544 / 440, 0,4, 0,1, s	9	5 / 6 / 1 / 2	Hz 420, 0,625, 0,625, s
5	5 / 6 / 1 / 2	Hz 1000, s	10	5 / 6 / 1–2	Hz 1200 / 500, 3,75, 0,25, s

Presentation: page 4/31
Characteristics: page 4/32
References: page 4/33

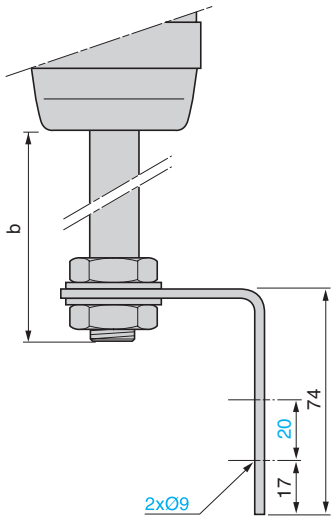
Signalling solutions
Modular tower lights
Harmony type XVP C Ø 50 mm
Tower lights for customer assembly (up to 5 units)

Support tube XVP C0●● with integral fixing base



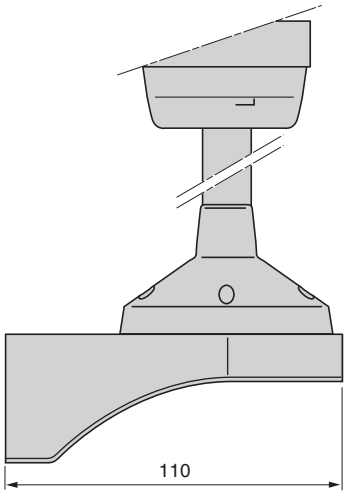
Height under base unit	b
XVP C02●	89
XVP C03●	237
XVP C04●	387

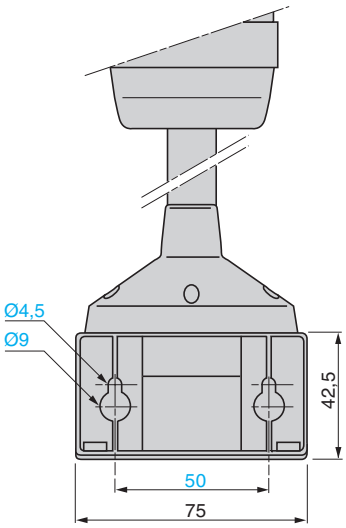
Threaded support tube XVP C0●T with metal fixing bracket



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

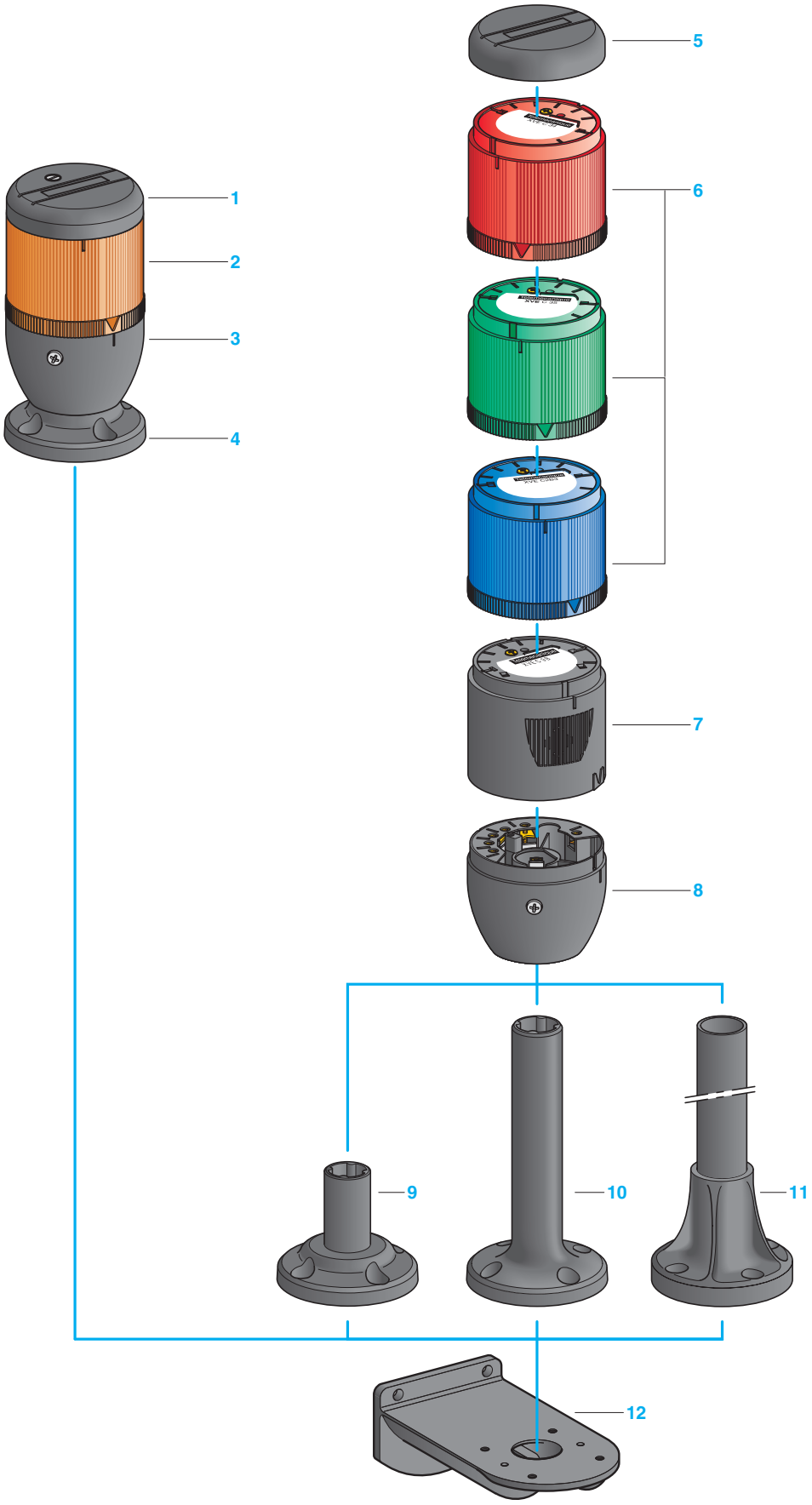
Mounting using fixing plate XVP C12● for use on a vertical support





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

Signalling solutions
Modular tower lights
Harmony type XVE Ø 70 mm
Illuminated beacons, tower lights for customer assembly (up to 5 units)



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.

Tower light

The tower light 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.

Characteristics: page 4/40
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Dimensions: page 4/44

Signalling solutions
Modular tower lights
Harmony type XVE Ø 70 mm
Illuminated beacons, tower lights for customer assembly (up to 5 units)

Presentation

The illuminated beacons and tower lights 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 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 tower lights is an IP 42 degree of protection, which is sufficient for the majority of indoor applications.
Both the IP 42 pre-configured beacons and tower lights can be upgraded to IP 54 by using a sealing kit *(1)*.
Depending on the tower light base unit selected, it is possible to achieve an IP 54 degree of protection for outdoor usage *(1)*.

Composition

■ The illuminated beacons are ready to use and incorporate a single steady or "flash" light illuminated unit and a short fixing base.
■ The tower lights 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 a tower light, 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 4/43.

Signalling solutions
Modular tower lights
Harmony type XVE Ø 70 mm
Illuminated beacons, tower lights for customer assembly (up to 5 units)

Environment characteristics

Degree of protection	Conforming to IEC 60529		■ IP 42 in vertical position, IP 40 for other positions ■ IP 54 for reinforced protection version: □ 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			EN/IEC 60947-1, EN/IEC 60947-5-1
Ambient air temperature	For storage	**°C**	- 40…+ 70
	For operation	**°C**	- 25…+ 55
Electric shock protection Conforming to IEC 61140	Mounted on plastic support tube		Class I
	Mounted on aluminium support tube		Class I
Protective treatment			Standard version: "TC"
Electronic components protection (LED and flash)	By integral fuse in series on the common	**A**	0.63 (⎓ 24 V)
		A	0.16 (∿ 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 EN/IEC 60947-1	**V**	250	250	250	250
Voltage limits	Conforming to EN/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 ⎓ 24 V	**mA**	Depending on bulb used	< 25	< 30	< 145 on ∿ 24 V < 85 on ⎓ 24 V
	On ∿ 120 V	**mA**	Depending on bulb used	< 25	< 25	< 35
	On ∿ 230/240 V	**mA**	Depending on bulb used	< 25	< 25	< 25
Rated impulse withstand voltage	Conforming to EN/IEC 60947-1	**kV**	U imp = 4			
Illuminating power	Average value for all colours	**cds/m²**	640	800	800	–
Flashing frequency	Nominal value	**Hz**	–	–	1	1
Audible units						
Consumption	On ⎓ 24 V	**mA**	< 15			
	On ∿ 120 V	**mA**	< 25			
	On ∿ 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	**mm²**	1 x 1.5 with cable end			

4

Presentation: page 4/38 References: page 4/41 Dimensions: page 4/44

Signalling solutions
Modular tower lights
Harmony type XVE Ø 70 mm
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

Signalling solutions
Modular tower lights
Harmony type XVE Ø 70 mm
Tower lights for customer assembly (up to 5 units)


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

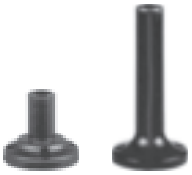
Description	Power	Supply voltage	Reference	Weight kg
Buzzer, single tone	85 dB at 1 metre	⎓ 24 V	**XVE C9B**	0.090
		~ 120 V	**XVE C9G**	0.090
		~ 230 V/240 V	**XVE C9M**	0.090

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Characteristics: page 4/40
Dimensions: page 4/44

Signalling solutions
Modular tower lights
Harmony type XVE Ø 70 mm
Tower lights for customer assembly (up to 5 units), components for beacons and tower lights


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

Tower lights 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

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

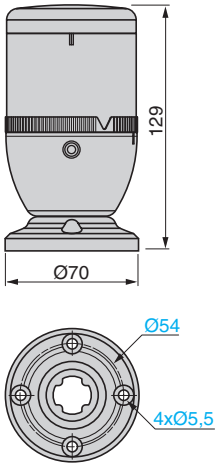
Description	For	Material	Reference	Weight kg
Fixing plate	Ø 25 mm aluminium support tube (to be glued into fixing plate)	Plastic	**XVB Z01**	0.050
Fixing plate for use on vertical support	Mounting complete and modular tower lights (requires a fixing base)	Zamak	**XVB C12**	0.380

Separate components for beacons and tower lights

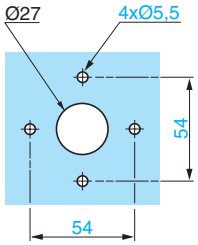
Description	For use with	Composition	Reference	Weight kg
Cover	Complete and modular tower lights	–	**XVE Z081**	0.010
IP 54 sealing kit	Modular tower lights	5 toric seals for lens units + base unit seal + 1 fixing plate seal + 1 seal for fixing base XVE Z13 + screw fixing cover	**XVE Z082**	0.015
	Complete tower lights	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

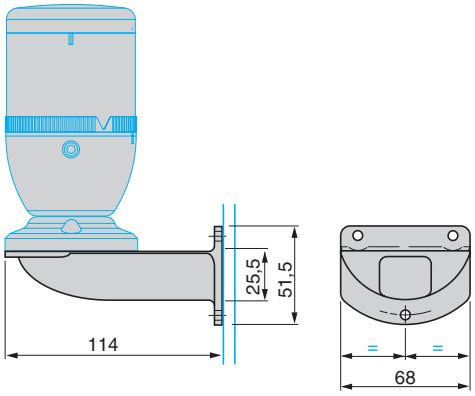
Illuminated beacons XVE L●●●



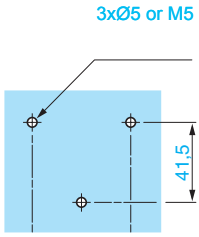
Panel cut-out for mounting directly on fixing base



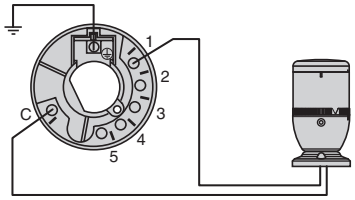
Mounting on fixing plate XVB C12



Vertical support panel drillings for mounting fixing plate XVB C12



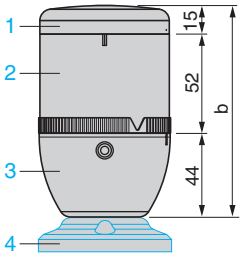
Wiring scheme



Presentation: page 4/38
Characteristics: page 4/40
References: page 4/41

Signalling solutions
Modular tower lights
Harmony type XVE Ø 70 mm
Tower lights for customer assembly (up to 5 units)

Tower lights XVE C●●●

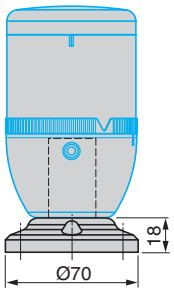


1 Cover XVE Z081 or cover XVE C21/C21P (with base unit),
2 Illuminated units XVE C●● and/or audible unit XVE C9●,
3 Base unit XVE C21/C21P,
4 Fixing bases (see below).

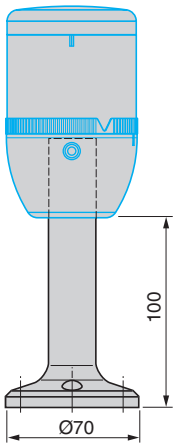
Height of tower lights	
Number of units (ref. 2)	**b**
1 unit	111
2 units	163
3 units	215
4 units	267
5 units	319

Fixing bases (height under base unit)

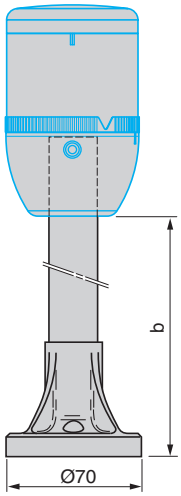
XVE Z13



XVD C02

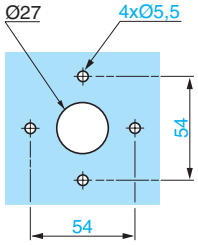


XVB Z0●●

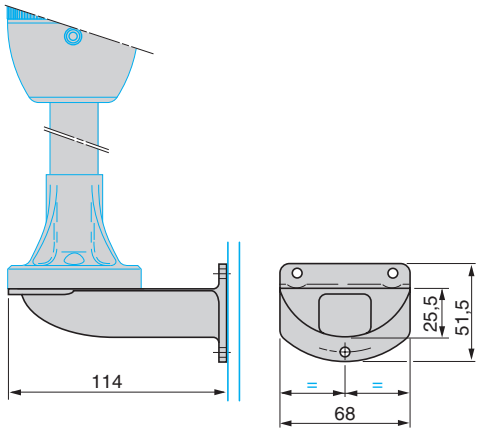


Height under base unit	
Fixing base	**b**
XVB Z02/Z02A	80
XVB Z03/Z03A	380
XVB Z04/Z04A	780

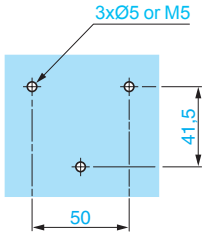
Panel cut-out for mounting directly on fixing base



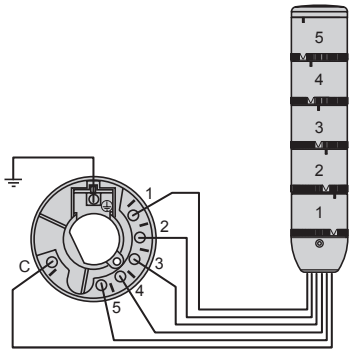
Mounting on fixing plate XVB C12



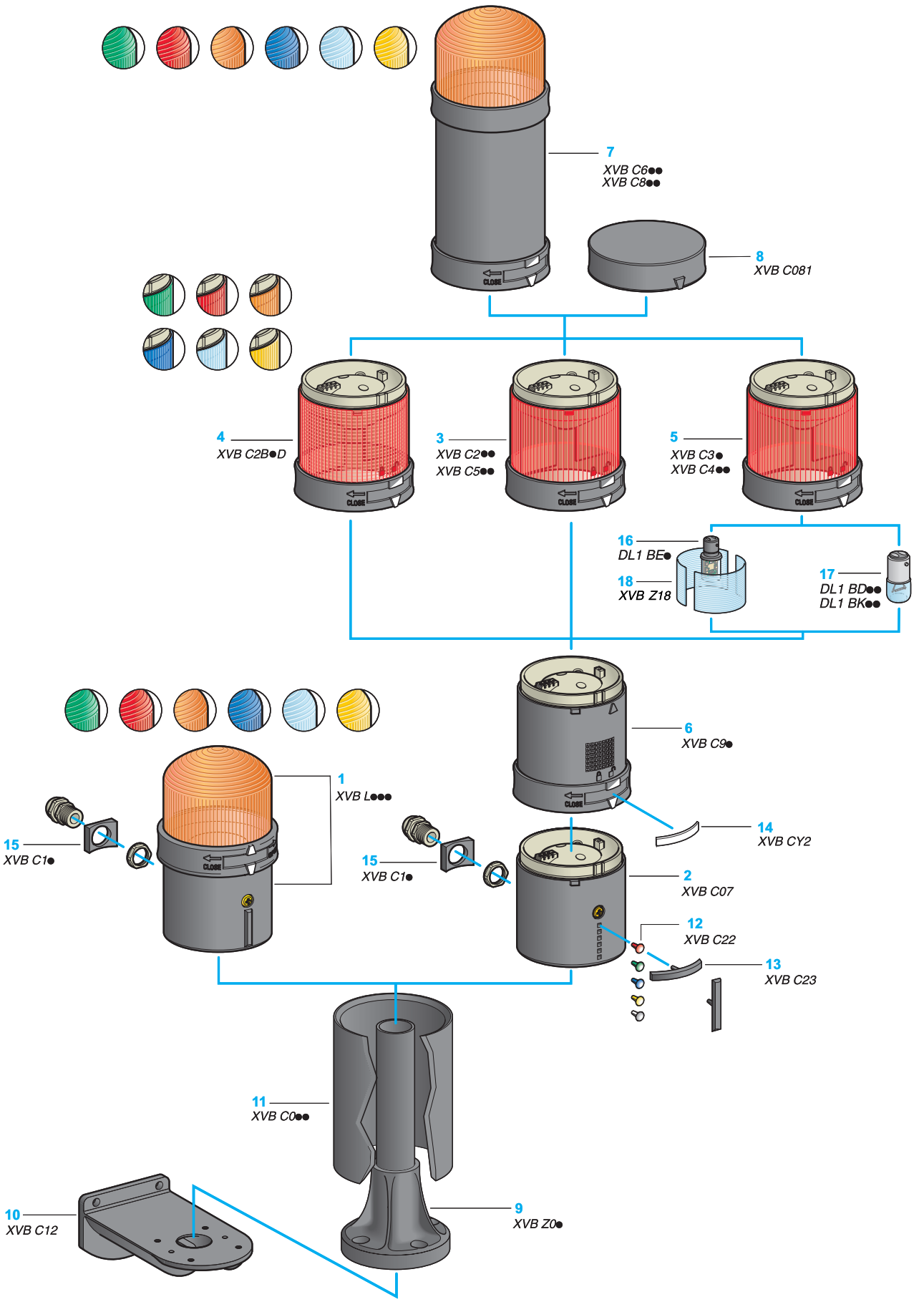
Vertical support panel drillings for mounting fixing plate XVB C12



Wiring scheme



Signalling solutions
Modular tower lights
Harmony type XVB Ø 70 mm
Illuminated beacons, tower lights for customer assembly (up to 5 units)



Signalling solutions
Modular tower lights
Harmony type XVB Ø 70 mm
Illuminated beacons, tower lights for customer assembly (up to 5 units)

Illuminated beacons and tower lights 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.

Illuminated beacon

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).

Tower light

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 tower light **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 modular tower lights 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 illuminated beacons XVB L and tower lights 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.

Characteristics: page 4/48 References: page 4/50 Dimensions: page 4/58

Signalling solutions
Modular tower lights
Harmony type XVB Ø 70 mm
Illuminated beacons, tower lights for customer assembly (up to 5 units)

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 EN/IEC 60947-1	**V**	250
Voltage limits	Conforming to EN/IEC 60947-5-1	**V**	0.85 to 1.10 Un (Un: nominal voltage)
Consumption	LED units	**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
	Units with discharge tube *(1)*	**mA**	**Flashing light signalling:** ∼ 24 V: 5 J unit: < 550; 10 J unit: < 1 300 ⎓ 24 V: 5 J unit: < 350; 10 J unit: < 850 ∼ 48 V: 10 J unit: < 650 ⎓ 48 V: 10 J unit: < 400 ∼ 120 V: 5 J unit: < 140; 10 J unit: < 290 ∼ 230 V: 5 J unit: < 105; 10 J unit: < 280
	Audible units	**mA**	⎓ 12…48 V: < 15 ∼ 120…230 V: < 25
Rated impulse withstand voltage	Conforming to EN/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	**mm²**	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.*

Signalling solutions
Modular tower lights
Harmony type XVB L Ø 70 mm
Illuminated beacons for incandescent bulbs or LEDs
(BA 15d base fitting)



XVB L3●



XVB L4B●

Illuminated 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

Illuminated 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 4/57.

General: page 4/46 Characteristics: page 4/48 Dimensions: page 4/58

Signalling solutions
Modular tower lights
Harmony type XVB L Ø 70 mm
Illuminated beacons with LED light source



XVB L0B●

Illuminated 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
	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●

Illuminated 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
	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

Signalling solutions
Modular tower lights
Harmony type XVB L Ø 70 mm
Illuminated beacons with “flash” discharge tube



XVB L6B●



XVB L8B●

Illuminated 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

Illuminated 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

4

General: page 4/46 Characteristics: page 4/48 Dimensions: page 4/58

Signalling solutions
Modular tower lights
Harmony type XVB C Ø 70 mm
Tower lights for 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 4/56



XVB C3●

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



XVB C4●●

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
	Incandescent bulb 7 W max. ∼ 48…230 V or LED	Green	**XVB C4M3**	0.160
		Red	**XVB C4M4**	0.160
		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 4/57.

Signalling solutions
Modular tower lights
Harmony type XVB C Ø 70 mm
Tower lights for customer assembly (up to 5 units)
Illuminated units with integral LED

For use with base unit XVB C●●: see page 4/56



XVB C2●●

Illuminated units with steady light signalling

Description	Voltage	Colour	Reference	Weight kg
Illuminated units with integral LED Protected 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
		Yellow	**XVB C2G8**	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



XVB C5●●

Illuminated units with integral flashing light signalling

Description	Voltage	Colour	Reference	Weight kg
Illuminated units with integral LED Protected 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
		Yellow	**XVB C5G8**	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.

General: page 4/46 Characteristics: page 4/48 Dimensions: page 4/58

Signalling solutions
Modular tower lights
Harmony type XVB C Ø 70 mm
Tower lights for customer assembly (up to 5 units)
Illuminated units with integral “flash” discharge tube

For use with base unit XVB C●●: see page 4/56



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

Signalling solutions
Modular tower lights
Harmony type XVB C Ø 70 mm
Tower lights for 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	Modular tower lights without "flash" discharge tube unit	Standard	**XVB C21**	0.190
Base unit only with bottom or side cable entry	Modular tower lights with "flash" discharge tube unit	Standard	**XVB C07**	0.160
Base unit + cover with side cable entry	All types of modular tower lights	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 modular tower lights	AS-Interface *(1)*	**XVB C21B**	–

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


XVB C07

Accessories specific to tower lights 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 modular tower light	**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

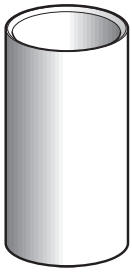

XVB Z18

General: page 4/46 Characteristics: page 4/48 Dimensions: page 4/58

Signalling solutions
Modular tower lights
Harmony type XVB Ø 70 mm
Illuminated beacons, tower lights for customer assembly (up to 5 units)



XVB Z02 XVB Z03/Z04



XVB C020



XVB Z01



XVB C12



DL1 B●●



DL1 BD●●/DL1 BK●●

Accessories common to beacons XVB L and tower lights 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

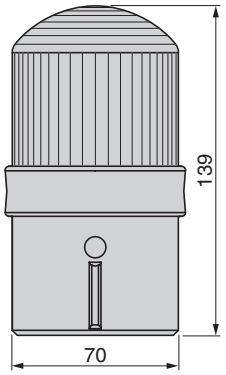
Description	Characteristics		Sold in lots of	Unit reference	Weight kg
Incandescent bulbs BA 15d base fitting	12 V	7 W	10	**DL1 BEJ**	0.090
	24 V	6.5 W	10	**DL1 BEB**	0.090
	48 V	6 W	10	**DL1 BEE**	0.090
	120 V	7 W	10	**DL1 BEG**	0.090
	230 V	7 W	10	**DL1 BEM**	0.090
LEDs BA 15d base fitting Protected 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

Signalling solutions
Modular tower lights
Harmony type XVB Ø 70 mm
Illuminated beacons, tower lights for customer assembly (up to 5 units)

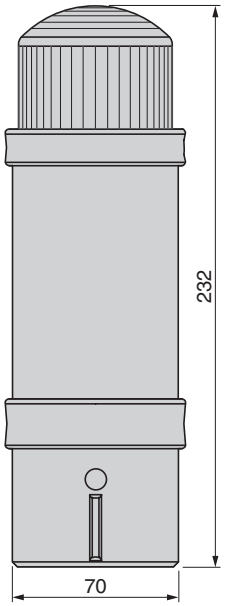
Dimensions

Illuminated beacons XVB L●●●

For BA 15d bulb or LED

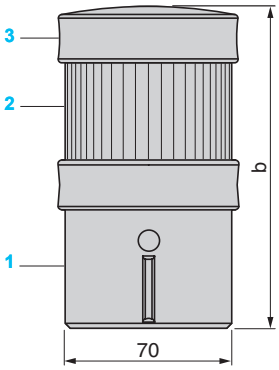


With "flash" discharge tube unit



Tower lights XVB C●●●

Without "flash" discharge tube unit

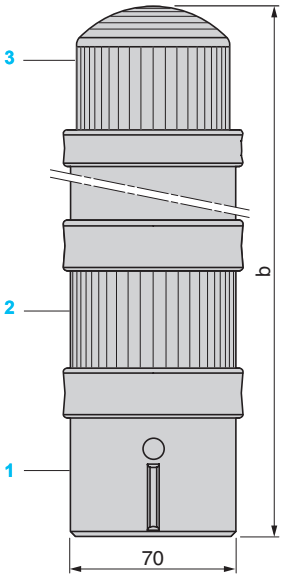


1 Base unit XVB C21 *(1)*
2 Illuminated or audible signalling unit XVB C●●●
3 Cover *(1)*

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.

With "flash" discharge tube unit

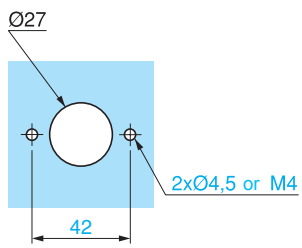


1 Base unit XVB C07
2 Illuminated or audible signalling unit XVB C●●●
3 "Flash" unit XVB C●●●

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

Panel cut-out for direct fixing

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

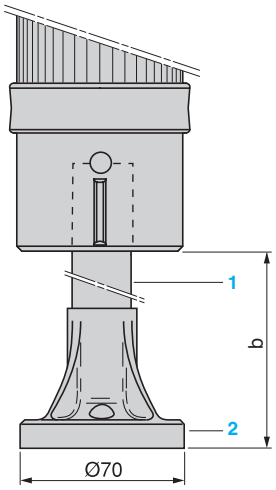


General: page 4/46
Characteristics: page 4/48
References: page 4/50

Signalling solutions
Modular tower lights
Harmony type XVB Ø 70 mm
Illuminated beacons, tower lights for customer assembly (up to 5 units)

Dimensions

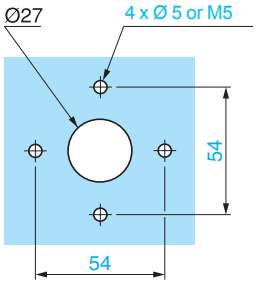
With fixing bases comprising XVB Z0● (aluminium support tube glued into black plastic fixing plate)



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

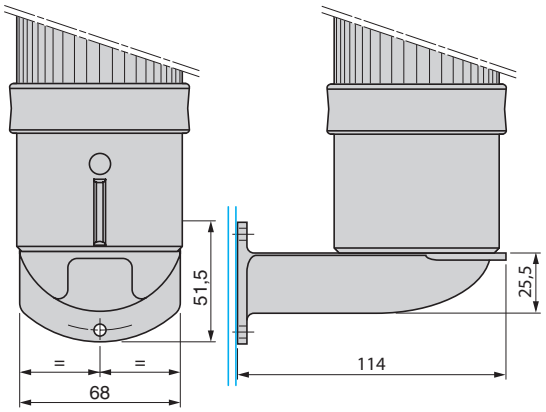
XVB	b
Z02/Z02A	80
Z03/Z03A	380
Z04/Z04A	780

Horizontal support panel cut-out for mounting on fixing plate

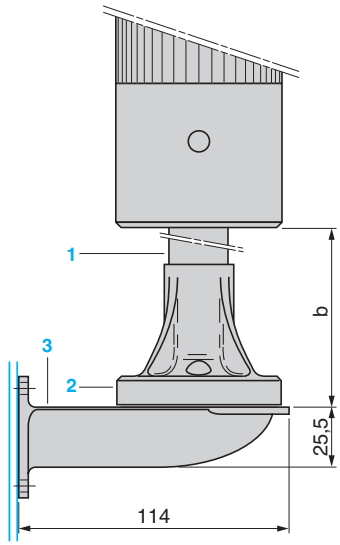


With fixing plate XVB C12 for use on vertical support

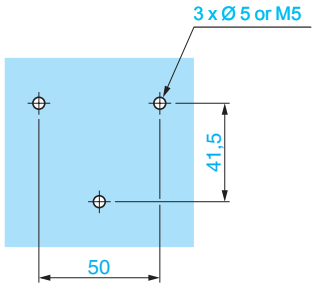
Direct mounting on base unit



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



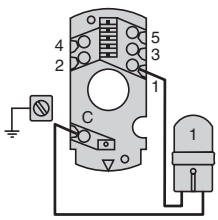
Fixing base comprising XVB Z0● (Ø 25 mm support tube **1** glued into plastic fixing plate **2**) mounted on fixing plate XVB C12 for vertical support **3**

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

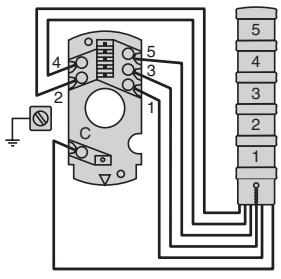
Installation

Connections

XVB L

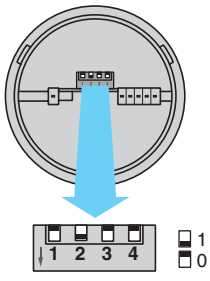


XVB C



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.

Signalling solutions
Modular tower lights
Harmony type XVD Ø 70 mm
Pre-cabled tower lights and tower lights for customer assembly (up to 5 units)



Pre-cabled tower light XVD fitted with 1 illuminated unit and 1 "flash" discharge tube



Pre-cabled tower light XVD fitted with 2 illuminated units and 1 audible unit

Presentation

Ø 70 mm tower lights type XVD are available in 2 forms:

■ **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 pre-cabled tower lights 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 tower lights in bright ambient light conditions, remove the diffuser to improve contrast.

■ Some pre-cabled tower lights 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

Pre-cabled tower lights 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

■ Pre-cabled Ø 70 mm tower lights 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 tower light, from bottom to top:

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

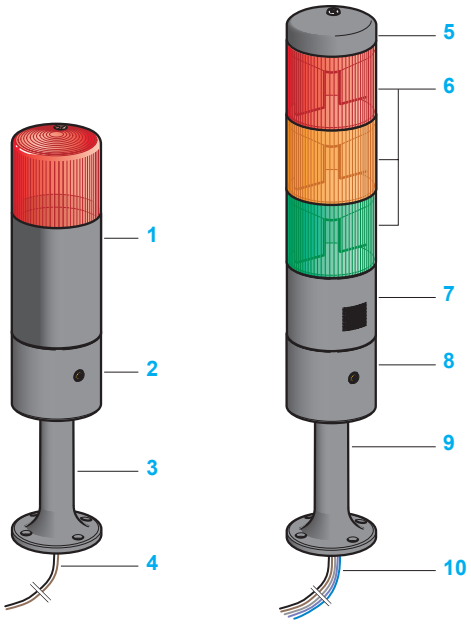
□ The connections to customer assembled products are made to a removable terminal block incorporated in the base unit.

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

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

Characteristics: page 4/62 References: page 4/63 Dimensions, mounting: page 4/68

Signalling solutions
Modular tower lights
Harmony type XVD Ø 70 mm
Pre-cabled tower lights and tower lights for customer assembly (up to 5 units)



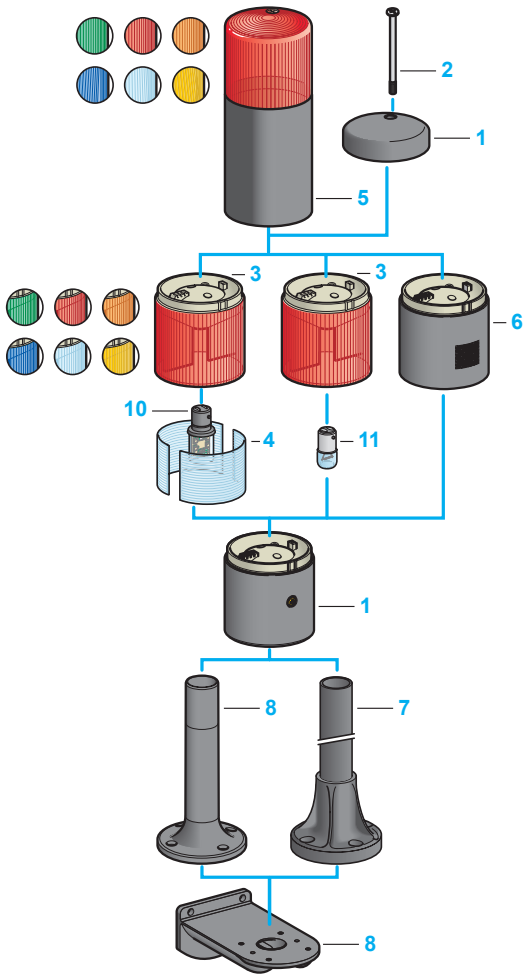
Description

Pre-cabled Ø 70 mm tower lights XVD with one illuminated unit

The assembled tower lights 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 tower light 80 mm,
4 different coloured connecting wires with bared ends, length protruding from support tube: 300 mm.

Pre-cabled Ø 70 mm tower lights XVD with two to four illuminated units

The assembled tower lights 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 tower light 80 mm,
10 different coloured connecting wires with bared ends, length protruding from support tube: 300 mm.



Customer assembled Ø 70 mm tower lights XVD

A **customised** tower light can be obtained by assembling:
1 a cover and a base unit incorporating a removable terminal block *(1)* with bottom cable entry,
2 a fixing screw for the combined units *(2)*,
3 5 illuminated units maximum *(3)* with red, orange, green, blue or clear lens, light source not included *(4)*,
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 tower light),
6 an audible unit (buzzer),
7 a fixing base comprising an aluminium support tube glued into a plastic fixing plate, for raising the tower light 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 a base mounted LED,
11 an incandescent bulb.

(1) Electrical connections to removable terminal block to made by user.
(2) Variable length screw depending on the number of units to be combined. To be ordered separately, see page 4/66
(3) Maximum configurations possibilities:
□ *5 illuminated units mounted on base unit.*
□ *4 illuminated units + 1 “buzzer” mounted on base unit.*
(4) Incandescent bulbs or LEDs to be ordered separately, see page 4/67.

Signalling solutions
Modular tower lights
Harmony type XVD Ø 70 mm
Pre-cabled tower lights and tower lights for customer assembly (up to 5 units)

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 61140	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 EN/IEC 60947-1	**V**	250
Voltage limits	Conforming to EN/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 EN/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	**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.*

Presentation, description: page 4/60 References: page 4/63 Dimensions, mounting: page 4/68

Signalling solutions
Modular tower lights
Harmony type XVD Ø 70 mm
Pre-cabled tower lights



XVD ●●6



XVD ●2S●R

Pre-cabled tower lights

With 1 signalling unit

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

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
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
	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).

Signalling solutions
Modular tower lights
Harmony type XVD Ø 70 mm
Tower lights for customer assembly (up to 5 units)



XVD L3●



XVD L4●●



XVD L6●●

Tower lights for customer assembly

With steady light signalling

Description	Light source, to be ordered separately *(1)*	Colour	Reference	Weight kg
Tower light 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
Tower light 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
Tower light 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 4/67.

Presentation, description: page 4/60
Characteristics: page 4/62
Dimensions, mounting: page 4/68

Signalling solutions
Modular tower lights
Harmony type XVD Ø 70 mm
Tower lights for customer assembly (up to 5 units)



XVD C3●



XVD C4●●



XVD Z18



XVD C6●●

Tower lights 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 4/67.

Signalling solutions
Modular tower lights
Harmony type XVD Ø 70 mm
Tower lights for customer assembly (up to 5 units)



XVD C9●



XVD C07

Tower lights 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	Tower lights without “flash” discharge tube unit	Standard	**XVD C21**	0.180
Base unit only with bottom cable entry	Tower lights with “flash” discharge tube unit	Standard	**XVD C07**	0.160

Assembly screw

Description	For use with	Type	Reference	Weight kg
Screw for assembling signalling units on base unit	Tower lights 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
	Tower lights 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

Presentation, description: page 4/60
Characteristics: page 4/62
Dimensions, mounting: page 4/68

Signalling solutions
Modular tower lights
Harmony type XVD Ø 70 mm
Accessories for customer assembled tower lights


XVB Z02


XVB Z03/Z04


XVD C02


XVB C12


DL1 B●●


DL1 BD●●/DL1 BK●●

Accessories for customer assembled tower lights

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

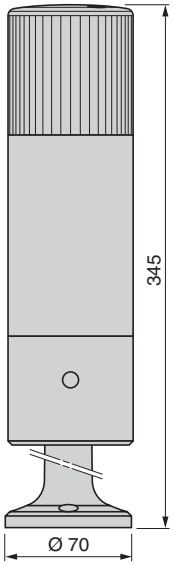
Description	Characteristics		Sold in lots of	Unit reference	Weight kg
Incandescent bulbs BA 15d base fitting	12 V		10	**DL1 B●J** *(1)*	0.090
	24 V		10	**DL1 B●B** *(1)*	0.090
	48 V		10	**DL1 B●E** *(1)*	0.090
	120 V		10	**DL1 B●G** *(1)*	0.090
	230 V		10	**DL1 B●M** *(1)*	0.090
LEDs BA 15d base fitting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

*(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.*

Signalling solutions
Modular tower lights
Harmony type XVD Ø 70 mm
Pre-cabled tower lights and tower lights for customer assembly (up to 5 units)

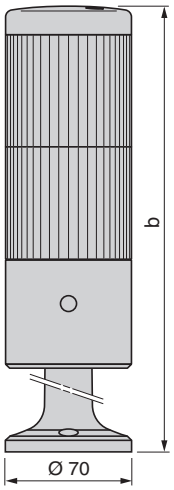
Dimensions

Pre-cabled tower lights XVD B●6, XVD M●6



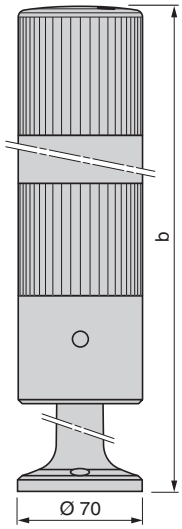
Pre-cabled tower lights XVD ●●●●

Without "flash" discharge tube



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

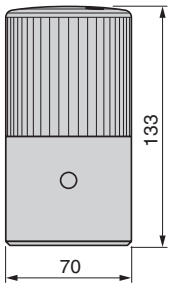
With "flash" discharge tube



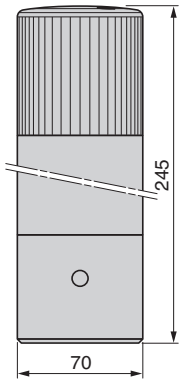
Number of illuminated or audible signalling units other than "flash"	b
2	405
3	468

Customer assembled tower lights XVD L●●●

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

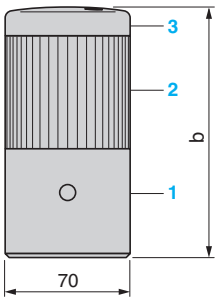


With "flash" discharge tube, XVD L6●●



Customer assembled tower lights XVD C●●●

Without "flash" discharge tube

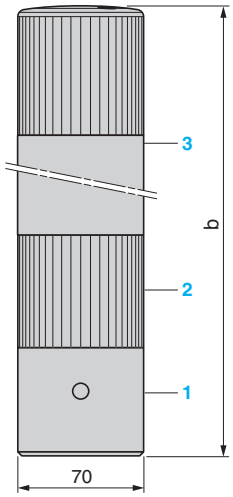


1 Base unit XVD C21 *(1)*
2 Illuminated unit XVD C3●/C4●● or audible unit XVD C9●
3 Cover *(1)*

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.

With "flash" discharge tube



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

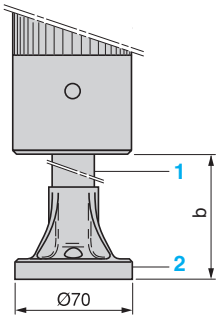
Number of illuminated or audible signalling units other than "flash"	b
1	308
2	371
3	434
4	497

Presentation, description: page 4/60
Characteristics: page 4/62
References: page 4/63

Signalling solutions
Modular tower lights
Harmony type XVD Ø 70 mm
Pre-cabled tower lights and tower lights for customer assembly (up to 5 units)

Mounting

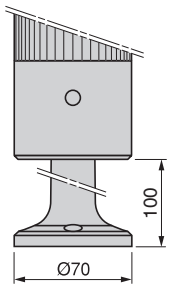
With fixing bases XVB Z0● (aluminium support tube glued into black plastic fixing plate)



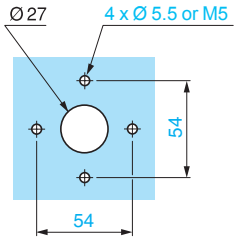
Fixing base comprising XVB Z0● (Ø 25 mm support tube **1** glued into plastic fixing plate **2**)

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

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

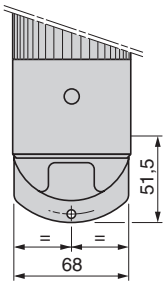


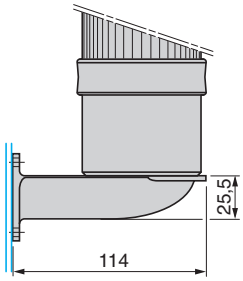
Horizontal support panel cut-out for mounting on fixing plate



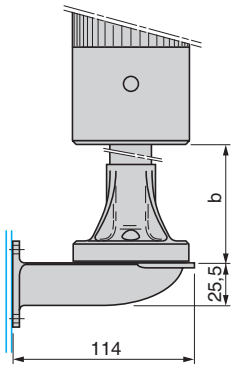
With fixing plate XVB C12 for use on vertical support

Direct mounting on base unit



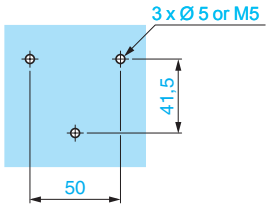


Mounting using fixing bases XVB Z0● or XVD C02



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

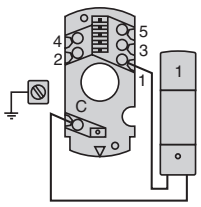
Vertical support panel drillings for fixing plate XVB C12

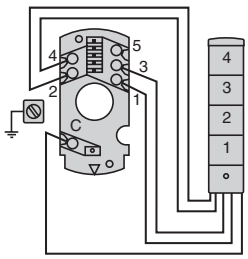


Installation

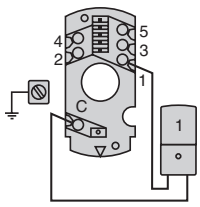
Connections

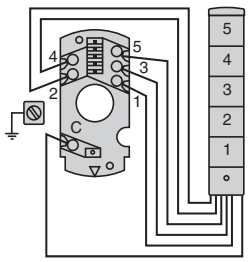
Pre-cabled tower lights





Customer assembled tower lights

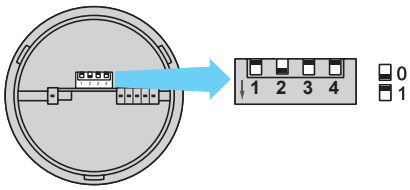




Wire colours of pre-assembled products:
C: black
1: brown
2: grey
3: violet
4: blue

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

Signalling solutions
Rotating beacons Harmony type XVR (equipped with Super Bright LED)

Presentation

The rotating beacons in the Harmony XVR range are optical signalling units designed for long distance signalling applications.

They are used mainly in the iron and steel industry, on industrial handling vehicles or for safety applications.

Environment characteristics

Rotating beacons type			XVR 08	XVR 10	XVR 12	XVR 13B●● XVR 13J●●	XVR 13●●●L
Product certifications			CE, UL and CSA				
Conforming to standards			EN/IEC 61000-6-2 , EN/IEC 61000-6-4				EN/IEC 60947-1, EN/IEC 60947-5-1
Protective treatment			"TC"				
Ambient air temperature	For storage	**°C**	- 35…+ 70				
	For operation	**°C**	- 10…+ 50			- 30…+ 50	
Electric shock protection conforming to IEC 61140			Class II				
Degree of protection conforming to IEC 60529			IP 23 (IP 65 with accessory)	IP 23 (IP 55 with accessory)	IP 23	IP 66 (resistant to vibration)	IP 66 and IP 67
Material	Domed lens unit		PC				
	Base		ABS				
Light source			Super Bright LED				

Electrical characteristics

Rotating beacons type			XVR 08J XVR 10J XVR 12J XVR 12J●●S	XVR 08B XVR 10B XVR 12B XVR 12B●●S XVR 13B●●L	XVR 13J	XVR 13B	XVR 13G●●L	XVR 13M●●L
Voltage		**V**	≂ 12	≂ 24	⎓ 12	⎓ 24	~ 120	~ 230
Rated impulse withstand voltage		**kV**	0.8				4	
Consumption	Without buzzer	**W**	3.2				5	
	With buzzer (for XVR 12●●●S)	**W**	4	4.7	–			
Audible units with continuous or intermittant tone (short/long or high/low)	For XVR 12●●●S Sound level at 1 m	**dB**	50...90					
Flashing frequency of illuminated units		**Hz**	2.3 2.7 for **XVR 13**					
Connection	Wire c.s.a	**mm²**	0.83 mm² / SPT-1 AWG 18 *(1)* for **XVR 08●**, **XVR 10●** and **XVR 12●** 0.83 mm² / UL1007 AWG 18 *(1)* for **XVR 12●●●S** 1.25 mm² / VCT for **XVR 13**					
	Cable length	**mm**	400 500 for **XVR 08●**					

(1) AWG: American Wire Gauge.

References: page 4/71
Dimensions: page 4/72

Signalling solutions
Rotating beacons Harmony type XVR
(equipped with Super Bright LED)



XVR 08●●●



XVR 10●●●



XVR 13●●●



XVR 13●●●L

Complete, pre-cabled rotating beacons

Diameter mm	Sound option	IP degree of protection	Voltage V	Colour	Reference	Weight kg
Ø 84	Without buzzer	IP 23 (IP 65 With accessories)	≂ 12	Red	**XVR 08J04**	0.300
				Orange	**XVR 08J05**	0.300
				Green	**XVR 08J03**	0.300
				Blue	**XVR 08J06**	0.300
			≂ 24	Red	**XVR 08B04**	0.300
				Orange	**XVR 08B05**	0.300
				Green	**XVR 08B03**	0.300
				Blue	**XVR 08B06**	0.300
Ø 106	Without buzzer	IP 23 (IP 55 With accessories)	≂ 12	Red	**XVR 10J04**	0.500
				Orange	**XVR 10J05**	0.500
				Green	**XVR 10J03**	0.500
				Blue	**XVR 10J06**	0.500
			≂ 24	Red	**XVR 10B04**	0.500
				Orange	**XVR 10B05**	0.500
				Green	**XVR 10B03**	0.500
				Blue	**XVR 10B06**	0.500
Ø 120	Without buzzer	IP 23	≂ 12	Red	**XVR 12J04**	0.500
				Orange	**XVR 12J05**	0.500
				Green	**XVR 12J03**	0.500
				Blue	**XVR 12J06**	0.500
			≂ 24	Red	**XVR 12B04**	0.500
				Orange	**XVR 12B05**	0.500
				Green	**XVR 12B03**	0.500
				Blue	**XVR 12B06**	0.500
Ø 120	With buzzer	IP 23	≂ 12	Red	**XVR 12J04S**	0.500
				Orange	**XVR 12J05S**	0.500
				Green	**XVR 12J03S**	0.500
				Blue	**XVR 12J06S**	0.500
			≂ 24	Red	**XVR 12B04S**	0.500
				Orange	**XVR 12B05S**	0.500
				Green	**XVR 12B03S**	0.500
				Blue	**XVR 12B06S**	0.500
Ø 130	Without buzzer	IP 66 Resistant to vibration	⎓ 12	Red	**XVR 13J04**	0.800
				Orange	**XVR 13J05**	0.800
			⎓ 24	Red	**XVR 13B04**	0.800
				Orange	**XVR 13B05**	0.800
		IP 66 and IP 67	≂ 24	Red	**XVR 13B04L**	0.820
				Orange	**XVR 13B05L**	0.820
			∿ 120	Red	**XVR 13G04L**	0.990
				Orange	**XVR 13G05L**	0.990
			∿ 230	Red	**XVR 13M04L**	0.990
				Orange	**XVR 13M05L**	0.990

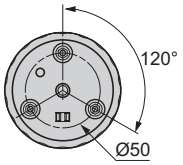
Accessories for rotating beacons

Description	To be used for / with	Diameter mm	Height mm	Reference	Weight kg
Reflecting prism	–	84	–	**XVR ZR1**	0.010
		106	–	**XVR ZR2**	0.015
		120/130	–	**XVR ZR3**	0.020
Rubber base	Increasing the IP degree	84	–	**XVR Z081**	0.040
		106	–	**XVR Z082**	0.050
Metal angle bracket	Horizontal support	84, 106, 120	–	**XVC Z23**	0.380
		130	–	**XVR 012L**	1.300
Metal fixing plate	Horizontal support	106, 120	300	**XVC Z13**	0.700

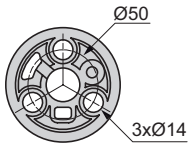
Signalling solutions
Rotating beacons Harmony type XVR
(equipped with Super Bright LED)

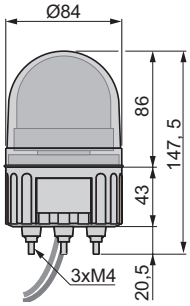
Complete, pre-cabled rotating beacons

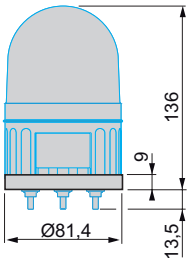
XVR 08●0●



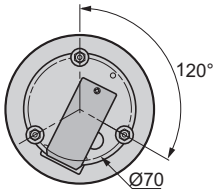
XVR Z081 (rubber base-optional part)



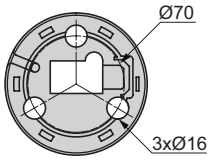


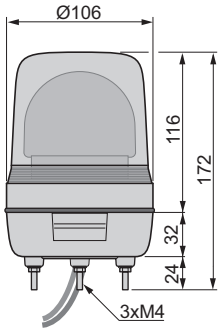


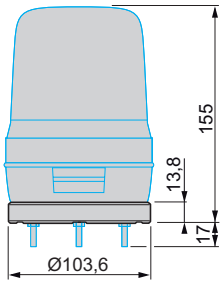
XVR 10●0●



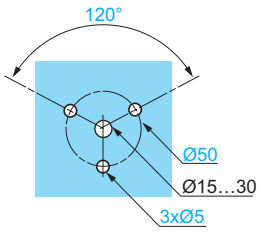
XVR Z082 (rubber base-optional part)



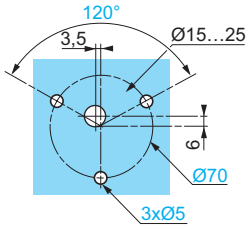




Panel cut-out



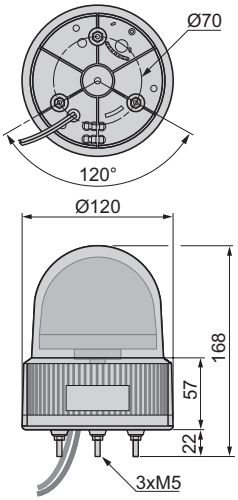
Panel cut-out



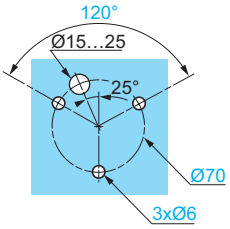
Signalling solutions
Rotating beacons Harmony type XVR
(equipped with Super Bright LED)

Complete, pre-cabled rotating beacons *(continued)*

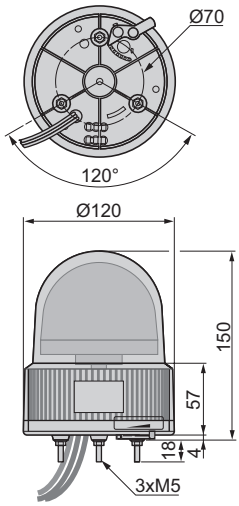
XVR 12●0●



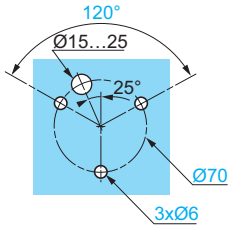
Panel cut-out



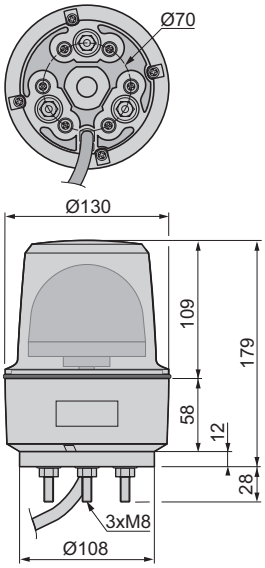
XVR 12●0●S



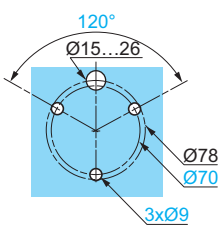
Panel cut-out



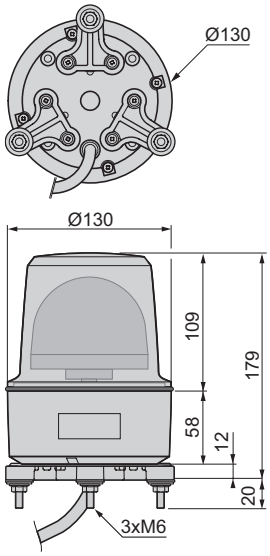
XVR 13●0●



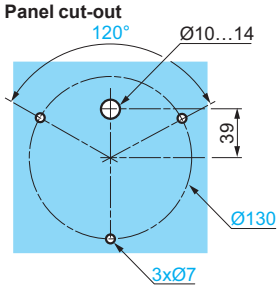
Panel cut-out



XVR 13●0●L



Panel cut-out



4

Presentation

Harmony XVS sirens and electronic alarms are audible signalling units used for long distance indication of the operating status or sequences of a machine or installation.

They are mainly used on conveyor belts, on automated industrial trucks and on the doors of electrical control panels.

Characteristics

Type of siren or alarm			XVS 10BMW	XVS 10GMW 10MMW	XVS 14BMW	XVS 14GMW 14MMW	XVS 72BM••	XVS 96BM••
Environment characteristics								
Product certifications			CE, UL and CSA					
Conforming to standards			EN/IEC 60947-1, EN/IEC 60947-5-1		EN/IEC 61000-6-2, EN/IEC 61000-6-3	EN/IEC 60947-1, EN/IEC 60947-5-1	EN/IEC 61000-6-2, EN/IEC 61000-6-3	EN/IEC 60947-1, EN/IEC 60947-5-1
Protective treatment			"TC"					
Ambient air temperature	Storage	**°C**	- 35…+ 70					
	Operation	**°C**	- 30…+ 50		- 10…+ 50		- 20…+ 50	
Electric shock protection conforming to IEC 61140			Class II					
Degree of protection conforming to IEC 60529			IP 53				IP 54	
Material	Terminal cover		–				PC	
	Base		PC		PC/ABS		ABS	PC or ABS
Sound	Number of options (tones)		2		43		16	
Electrical characteristics								
Voltage		**V**	≂ 12-24	∿ 120 ∿ 230	⎓ 12/24	∿ 120 ∿ 240	≂ 12/24	
Rated impulse withstand voltage			0.8	4	0.8	4	0.8	
Consumption			≂ 12 V: 500 mA ≂ 24 V: 300 mA	∿ 120 V: 80 mA ∿ 230 V: 40 mA	⎓ 12 V: 250 mA ⎓ 24 V: 350 mA	∿ 120 V: 100 mA ∿ 240 V: 50 mA	≂ 12 V: 1.9 / 1.4 W ≂ 24 V: 4.8 / 3 W	≂ 12 V: 3.5 / 3 W ≂ 24 V: 8.5 / 7 W
Audible units	Sound level (continous or intermittant tone) at 1 m	**dB**	106		0…105		0…90	0…96
Cabling	Cable diameter		Cable-gland for using 6.5 to 8.5 mm cables		Power wire c.s.a.: 0.52 mm² / AWG 20 *(1)* Signal wire c.s.a.: 0.33 mm² / AWG 22 *(1)*		–	
	Maximum clamping capacity	**mm²**	1 x 1.5		–		1 x 1.5	
	Cable length	**mm**	–		500		–	

(1) AWG: American Wire Gauge.

Signalling solutions
Sound solutions Harmony type XVS
Sirens and electronic alarms

References

PF540616



XVS 10●M

PF569825



XVS 14●MW

PF569826



XVS 72BM●●

PF569827

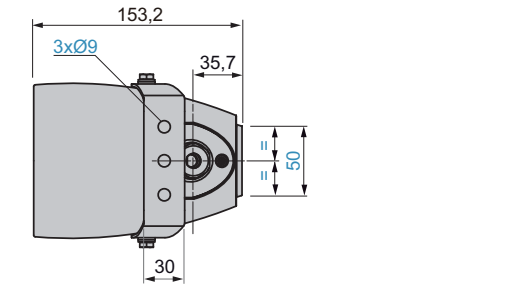


XVS 96BM●●

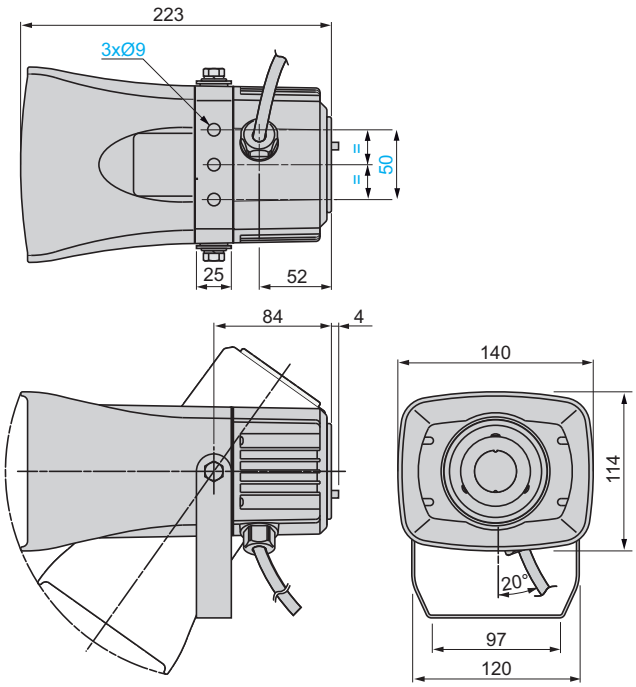
Description	Voltage	Colour	Reference	Weight
	V			kg
Sirens **106 dB, 2 tones**	⎓ 12-24	White	**XVS 10BMW**	0.800
	~ 120	White	**XVS 10GMW**	1.000
	~ 230	White	**XVS 10MMW**	1.000
Multisound siren **105 dB, 43 tones** **8 channels** **Pre-wired**	⎓ 12/24	White	**XVS 14BMW**	1.000
	~ 120	White	**XVS 14GMW**	1.200
	~ 240	White	**XVS 14MMW**	1.200
Electronic alarms **90 dB, 16 tones** **Panel Mount DIN72** **4 channels**	⎓ 12/24	PNP, Black	**XVS 72BMBP**	0.180
		PNP, White	**XVS 72BMWP**	0.180
		NPN, Black	**XVS 72BMBN**	0.180
		NPN, White	**XVS 72BMWN**	0.180
Electronic alarms **96 dB, 16 tones** **Panel Mount DIN96** **4 channels**	⎓ 12/24	PNP, Black	**XVS 96BMBP**	0.400
		PNP, White	**XVS 96BMWP**	0.400
		NPN, Black	**XVS 96BMBN**	0.400
		NPN, White	**XVS 96BMWN**	0.400

Dimensions

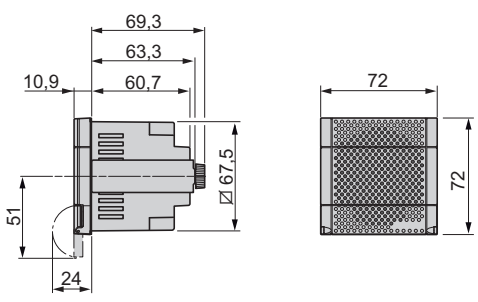
XVS 10●M



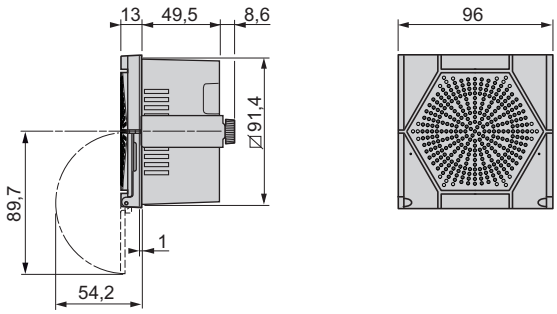
XVS 14●MW



XVS 72BM●●



XVS 96BM●●



4