Signalling Units

Harmony® tower lights, rotating beacons, sound units

Catalogue

May 2012

Schneider Electric

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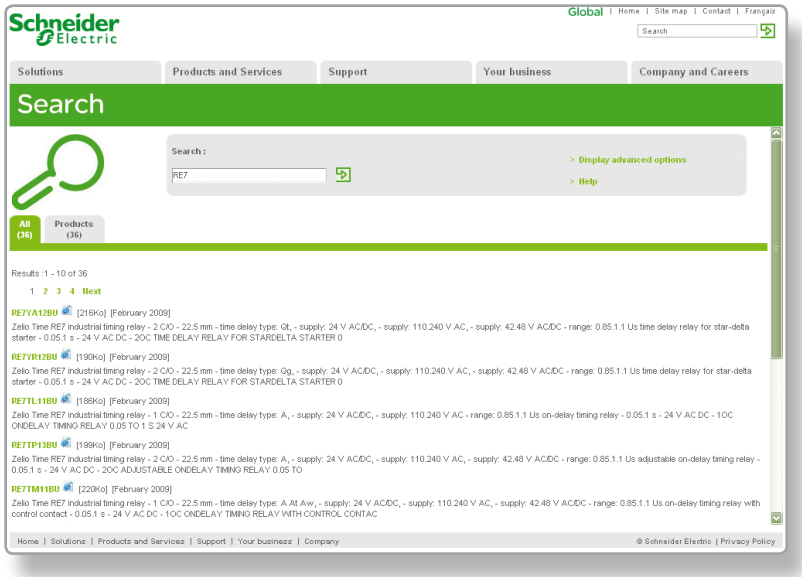
Browse the “product data sheet” to check out :

- characteristics,
- dimensions,
- curves, ...
- and also the links to the user guides and the CAD files.

1 From the home page, type the model number* into the “Search” box.

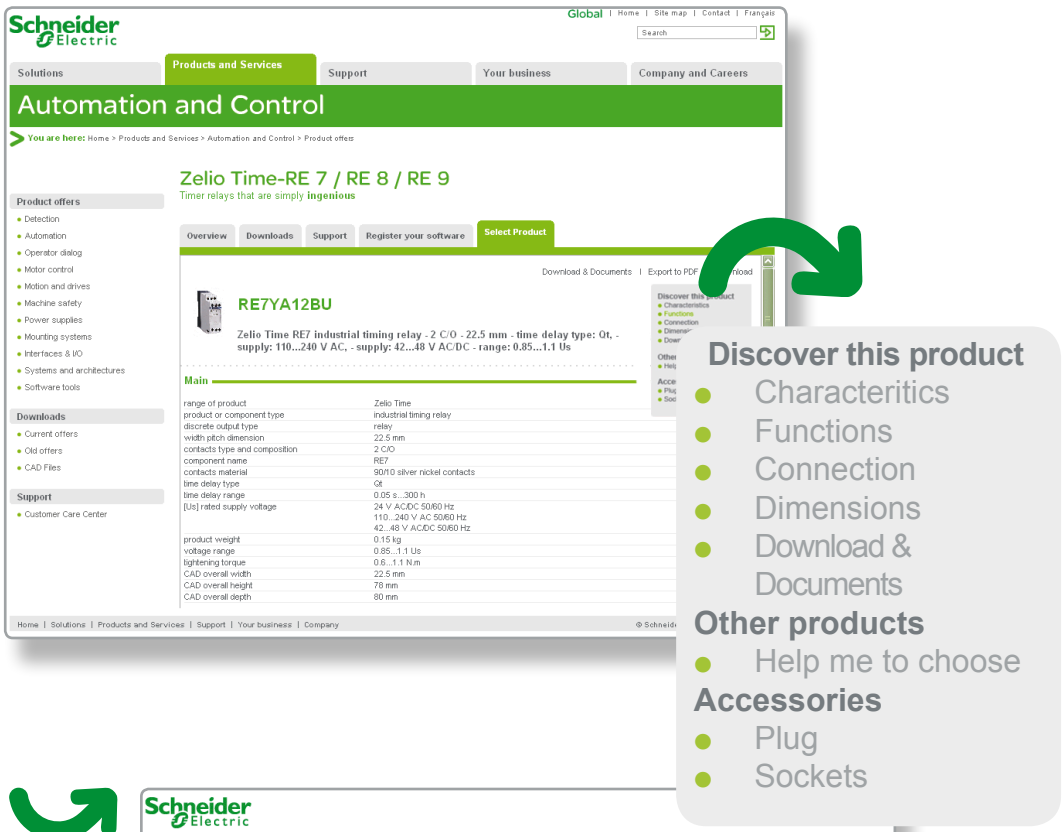
* type the model number without any blank, replace “●” by “*”

2 Under ”All” tab, click the model number that interests you.

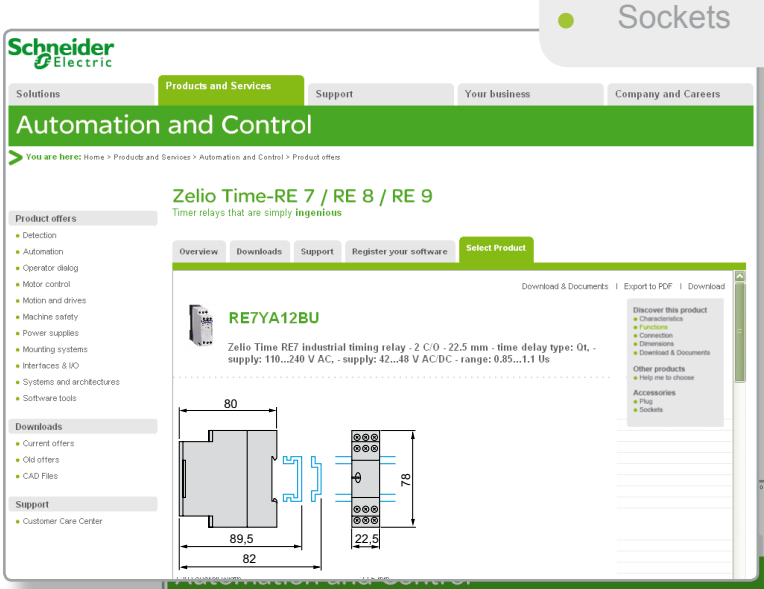


3 The product data sheet displays.

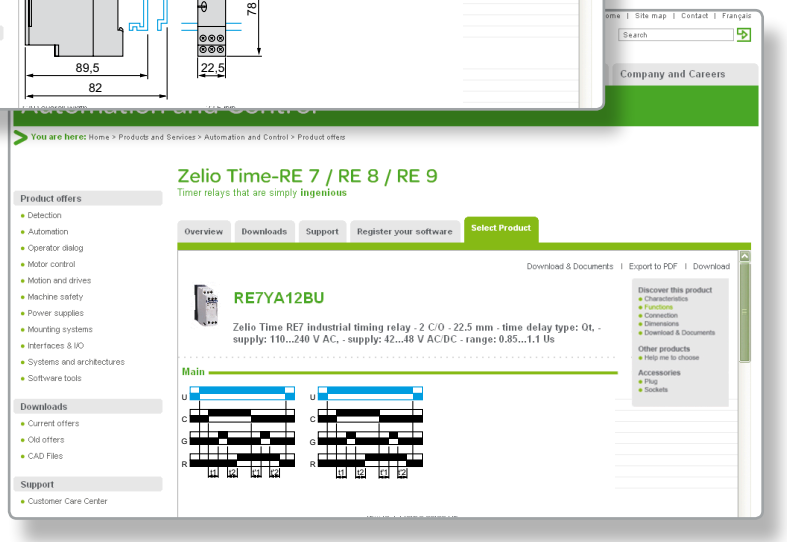
Example : Zelio Time data sheet



Example : Zelio Time data sheet



Example : Zelio Time data sheet



☑ You can get this information in one single pdf file.

Contents

Signalling Units

Signalling Units
Harmony® type XV

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 contact our Customer Care Centre	8



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)
■		
■		
–		
■ With buzzer		■ With siren or buzzer
–		
–		
■		
–		
–		
□ Red □ Orange □ Green □ Blue □ Clear		
Flying leads, length 450 to 900 mm according to model	Flying leads, length 450 to 850 mm according to model	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**
11	12	13

Signalling Units
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)		16	24	28 and 29

		Rotating beacons	Sound units
			
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**
34 and 37	44	49	51

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

PG110117SE

XVD LS●●

Presentation

The miniature beacons in the Harmony® XVD LS range are compact sized (diameter: 45 mm and height: 104 mm) and thus suitable for installation on small machines for short distance signalling of the process status.

XVD LS tower lights comprise an assembly of:
□ one illuminated signalling unit (6 colours available: green, red, orange, blue, clear and yellow),
□ one base unit with direct fixing.

Two types of beacons and two types of light sources are available:
□ beacons with steady light signalling operating with an incandescent bulb, 5 W maxi, 230 V maxi (to be ordered separately),
□ beacons with intermittent light fitted with 1 joule “flash” discharge tube.

Environment

The XVD LS range has the following characteristics:
■ degree of protection (according to EN/IEC 60529): IP 40,
■ conformity to standards: EN/IEC 60947-5-1,
■ product certifications: CSA and UL.

Connection

The connection is through screw and captive cable clamp terminals.

References

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, BA 15d base fitting 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

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

XVD LS●●

References (continued)

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 Units
Monolithic tower lights
Harmony® type XVC Ø 40, Ø 60 and Ø 100 mm
Pre-assembled/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 both small diameter (40 and 60 mm) and large diameter products (100 mm). It is therefore virtually suitable for use in 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 both outdoor and 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 in 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 the above mentioned order, from top to bottom. The light source consists of Super Bright LEDs which provide optimum luminosity.

Audible signalling

The XVC tower lights are 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 dB for XVC 1●●K and XVC 1●●SK (equipped with a buzzer),
- 102 dB for XVC 1●●HK (equipped with a siren).

Environment

■ The degree of protection of XVC tower lights depends on the installation mode:
□ IP 54 (both outdoor and indoor use) for all models, when mounted on a horizontal surface,
□ IP 23 for tower lights of Ø 40 and Ø 60 mm, when mounted on a vertical surface.

■ XVC tower lights conform with the EN/IEC standards, depending on voltage :
□ EN/IEC 61000 for 24 V A.C./D.C. (40 and 60 mm) and 24 V D.C. (100 mm),
□ EN/IEC 60947 for 100-240 V A.C. (40, 60 and 100 mm).

■ The whole range of tower lights is CE, UL and CSA certified.

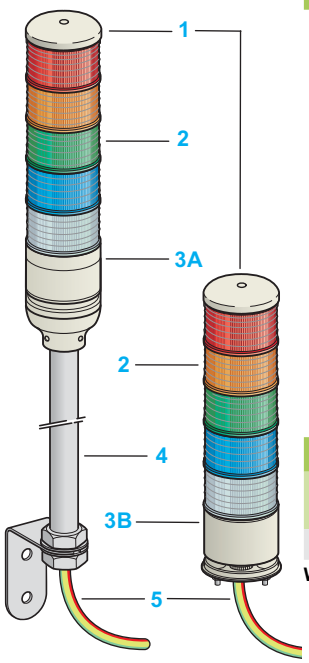
Cabling

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).

References:
page 11

Signalling Units
Monolithic tower lights
Harmony® type XVC Ø 40 mm
Pre-assembled/pre-cabled tower lights



Description

XVC Ø 40, Ø 60 and Ø 100 mm tower lights comprise an assembly of:

1 1 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 (support tube depending on the model) for mounting on a vertical support (support tube on this page is for XVC Ø 40 mm and XVC Ø 60 mm).

5 Marked wires, with projecting length of 500 to 900 mm (depending on the model).

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

Description	Light source (included)	Voltage V	Signalling colours *(1)* Steady	Signalling colours *(1)* Flashing *(2)*	Reference	Weight kg
For support tube mounting, 17 mm, on horizontal (IP 54) or vertical (IP 23) surface						
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 Sound level at 1 m: 70 to 85 dB, continuous or intermittent tone + 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 direct base mounting on horizontal surface (IP 54)						
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 4B5 *XVC 4B55S*

XVC Z11

XVC Z01

XVC Z31

Accessories for support tube mounting (for tower lights XVC 4●● and XVC 4●●5S)

Description	Diameter mm	Minimum height to be added mm	Reference	Weight kg
Metal fixing plate IP 54	90	32	**XVC Z11**	0.100
Plastic fixing plate IP 54	84	24.5	**XVC Z01**	0.060
Wall mounting bracket IP 54	–	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 Units
Monolithic tower lights
Harmony® type XVC Ø 60 mm
Pre-assembled/pre-cabled tower lights

XVC 6B5 *XVC 6M5*

XVC 6B5K *XVC 6M5K*

XVC Z02

XVC Z12

XVC Z32

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

Description	Light source (included)	Voltage V	Signalling colours *(1)* Steady	Flashing *(2)*	Reference	Weight kg
For support tube mounting, 22 mm, on horizontal (IP 54) or vertical (IP 23) surface						
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 Sound level at 1 m: 70 to 85 dB, continuous or intermittent tone + 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 on horizontal surface (IP 54)						
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 Sound level at 1 m: 70 to 85 db, continuous or intermittent tone + 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 or base mounting

Description	Utilization for	Diameter mm	Minimum height to be added (mm)	Reference	Weight kg
Metal fixing plate IP 54	**Support-tube mounting with** XVC 6●● and XVC 6●●5S	100	30	**XVC Z02**	0.080
Metal fixing plate IP 54	**Direct base mounting with** XVC 6●● K and XVC 6●●5SK	84	21.6	**XVC Z12**	0.100
Wall mounting bracket IP 54	**Support-tube mounting with** 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 10

Signalling Units
Monolithic tower lights
Harmony® type XVC Ø 100 mm
Pre-assembled/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 direct base mounting on horizontal surface (IP 54)						
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 Sound level at 1 m: 60 dB to 85 dB, continuous or intermittent tone + 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 Sound level at 1 m: 0 to 102 dB, 16 melodies + 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

XVC Z14

XVC Z23

XVC Z24

Accessories for mounting on vertical support (IP 23)

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

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

Presentation

The modular tower lights in the Harmony® XVM range are available in two 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 (two types of support available).
Pre-assembled and pre-cabled Ø 45 mm XVM tower lights cannot be modified due to wiring.

■ Separate components (all catalogued) **for customer assembly** of variable composition units to meet specific requirements.

Light signalling

5 lens unit colours are 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 three 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 along with:
■ A potentiometer for adjusting the volume of the audible signal, up to a value of 85 dB,
■ A selector for selecting the type of signal: continuous or intermittent tone.

Modularity

■ XVM tower lights can also be assembled by the customer using separate components, all of which are listed in the catalogue:
□ 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 the electrical connections are made automatically.
■ For customer assembled indicator banks, the connections in the base unit are made to a screw terminal block.

Environment

The degree of protection of pre-assembled and customer-assembled XVM tower lights depends on the installation mode and on the selected mounting accessories:
■ 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).

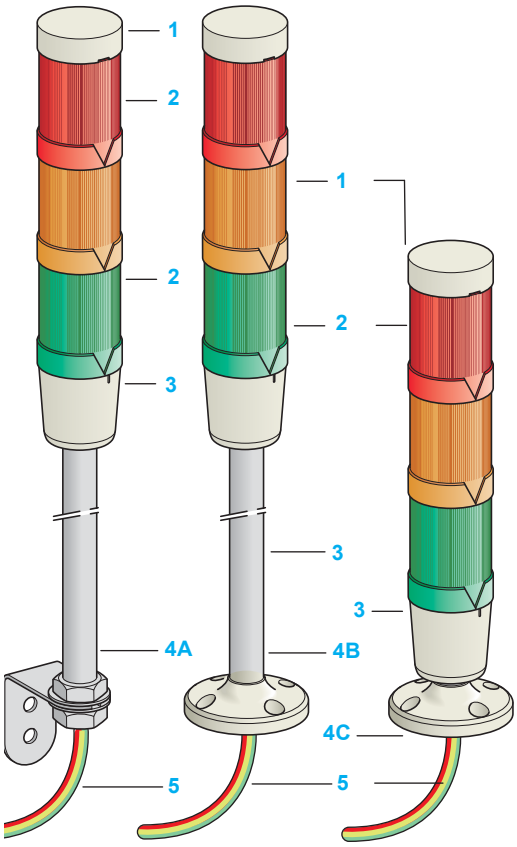
Tower lights conform with EN/IEC 60947-1 and EN/IEC 60947-5-1 standards. They are CCC and CE certified.

Cabling

XVM tower lights supplied pre-assembled are equipped with wires marked with a wiring instructions label. Each signalling unit of the tower light is identified by a different wire colour. Electrical connections between each unit are made automatically.

References:
page 16

Signalling Units
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 the model),

4 A fixing base for mounting on a vertical or horizontal support (depending on the model),

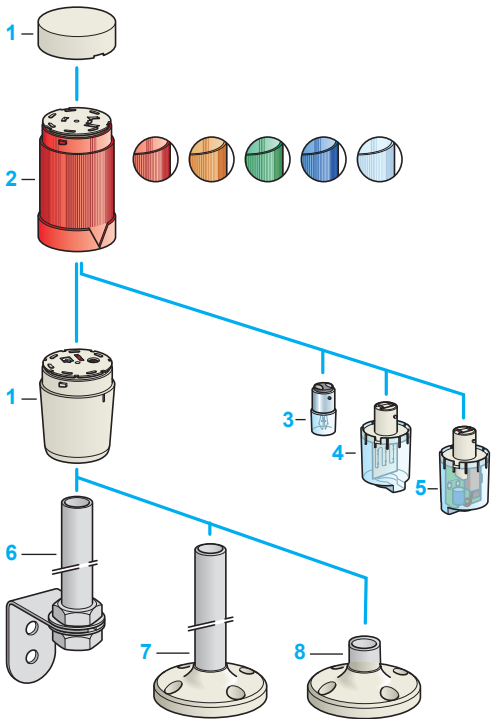
5 300 mm flying lead connections, each wire identified.

Three 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 Units
Modular tower lights
Harmony® type XVM Ø 45 mm
Pre-assembled/pre-cabled tower lights

PF100900

XVM ●● RWSB
XVM ●●RSWSB

PF100901

XVM ●●RSB
XVM ●●RSSB

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) **Protection: IP 54**							
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 *(2)*	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) **Protection: IP 54**							
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 *(2)*	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) **Protection: IP 42**							
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 *(2)*	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

(1) Signalling colour: R: red.
(2) Continuous or intermittent tone. Sound level at 1 m: 0 dB to 85 dB.

Presentation, description:
page 14

Signalling Units
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) **Protection: IP 54**							
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 *(3)*	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) **Protection: IP 42**							
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 *(3)*	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 the same order as the mounting of illuminated units (from top to bottom).
(3) Continuous or intermittent tone. Sound level at 1 m: 0 dB to 85 dB.

Signalling Units
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) **Protection: IP 54**							
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 *(3)*	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) **Protection: IP 54**							
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 *(3)*	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

PF100907

PF100904

XVM ●●RAGHSB
XVM ●●RAGSHSB
XVM ●●RAGWSB
XVM ●●RAGSWSB

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) **Protection: IP 54**							
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 *(3)*	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

(1) Signalling colour: R: red; O: orange; G: green.
(2) In the references, the colours are listed in the same order as the mounting of illuminated units (from top to bottom).
(3) Continuous or intermittent tone. Sound level at 1 m: 0 dB to 85 dB.

Presentation, description:
page 14

Signalling Units
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)*			Reference *(2)*	Weight kg
			Steady	Flashing	"Flash"		
With fixing base for mounting on vertical support (250 mm aluminium support tube + metal bracket) **Protection: IP 42**							
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 *(3)*	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 the same order as the mounting of illuminated units (from top to bottom).
(3) Continuous or intermittent tone. Sound level at 1 m: 0 dB to 85 dB.

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

PF100909

XVM ●●RAGBWSB
XVM ●●RAGBSWSB

PF100910

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) **Protection: IP 54**							
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 *(3)*	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) **Protection: IP 54**							
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 *(3)*	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) **Protection: IP 42**							
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 *(3)*	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 the same order as the mounting of illuminated units (from top to bottom).
(3) Continuous or intermittent tone. Sound level at 1 m: 0 dB to 85 dB.

Presentation, description:
page 14

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

XVM C3●

PF100918

XVM C29●

121255

XVM Z02

121257

XVM Z02T

XVM Z06

121259

DL1 ED●S

121260

DL2 E●●●SB

121261

DL6 B●

XVM Z081

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 (protection IP 54)	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 (protection IP 42)	100	113	–	**XVM Z02T**	0.200
	250	263	–	**XVM Z03T**	0.200
	400	413	–	**XVM Z04T**	0.300
Plastic fixing plate for mounting on horizontal support (protection IP 54)	–	–	White	**XVM Z06**	0.300

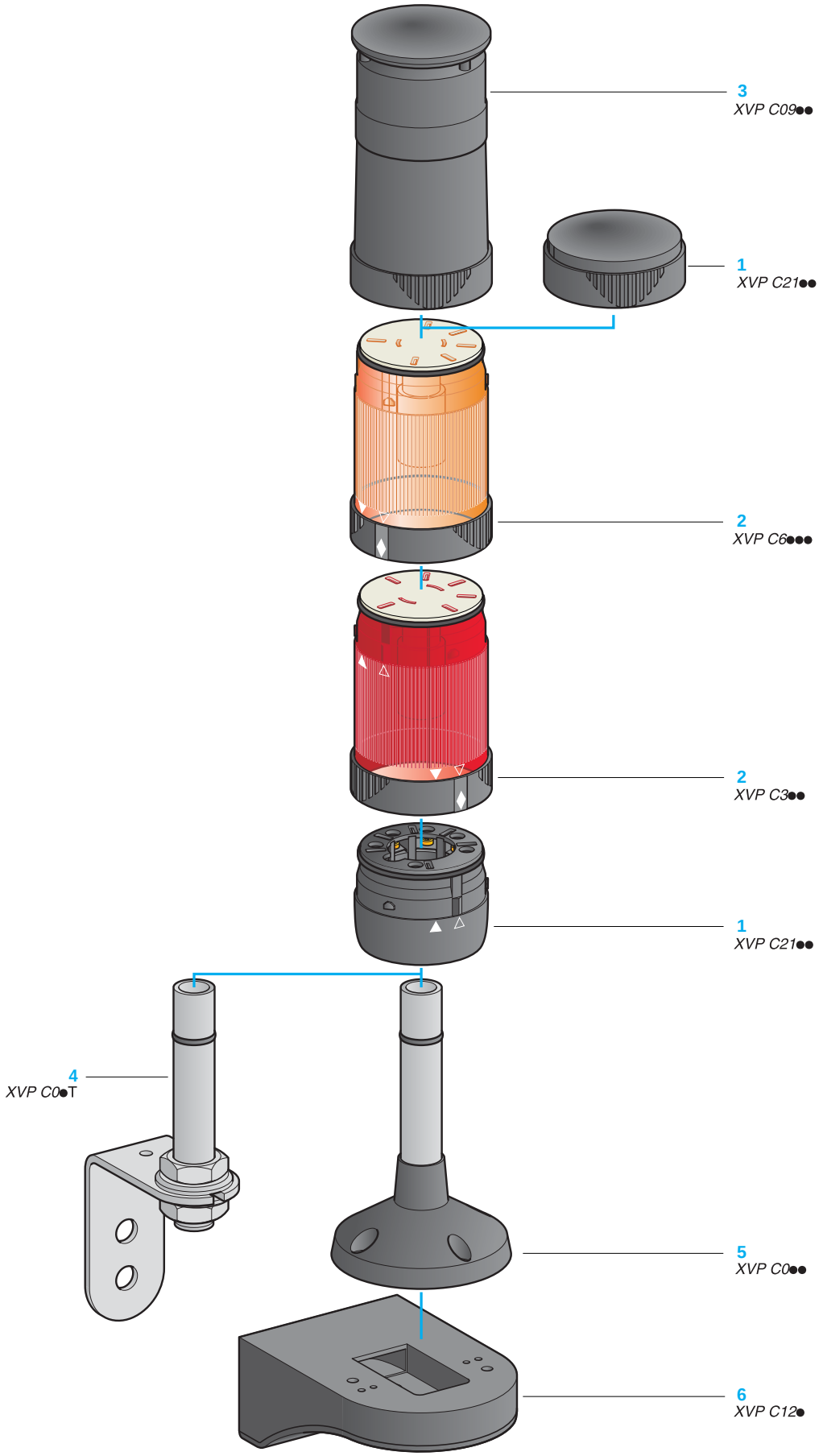
Light sources for lens units *(1)*						
Description	**Signalling**	**Sold in lots of**	**Voltage V**	**Colour**	**Unit reference**	**Weight kg**
Incandescent bulbs, 5 W	Steady light	10	≂ 24	–	**DL1 EDBS**	0.007
			≂ 120	–	**DL1 EDGS**	0.007
			≂ 230	–	**DL1 EDMS**	0.007
Super Bright LEDs with integral 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

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**	–

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

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



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

Presentation

The modular tower lights in the Harmony® XVP C range 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, and food/drink processing.

Customer assembled product

Variable composition of illuminated and audible units for customer assembly which are supplied as separate items.
The XVP C tower lights comprise:
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 XVP C tower lights, 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.

Mounting

■ Base unit fixed directly onto the 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 the base unit. The screw and captive cable clamp terminals are protected to prevent any accidental contact with live parts.
Cream coloured base units are available for use with eyelet tags.

Environment

The degree of protection of XVP C tower lights are:
■ IP 65 for the tower lights exclusively composed of illuminated units,
■ IP 43 for the tower lights composed of both illuminated units and audible units.

The whole range conforms with EN/IEC 60947-5-1 standard. Products are CSA, CE and cULus certified.

References:
page 24

Signalling Units
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 (protection: IP 65)

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

Illuminated units with cream clamping ring

To order, add the suffix W to the references selected above.
Example: XVP C33 becomes XVP C33W.

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

Presentation:
page 23

Signalling Units
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

530425

XVP C09●

530426

XVP C09●W

520682+520683

XVP C21

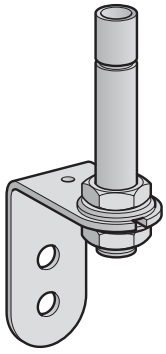
530427+530428

XVP C21W●

530429

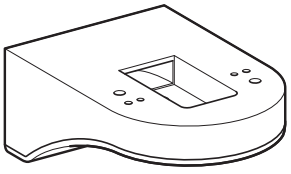
XVP C0●●

530430



XVP C0●T

530431



XVP C12●

Illuminated "flash" units with discharge tube (protection: IP 65)

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 Joule) ∿ 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 Joule) ∿ 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

Audible units (protection: IP 43)

Description	Voltage	Colour	Reference	Weight kg
Buzzer, adjustable 55…85 dB at 1 m (10 adjustable levels) Continuous or intermittent tone	⎓ 24 V	Black	**XVP C09B**	0.153
	∿ 120 V	Black	**XVP C09G**	0.153
	∿ 230 V	Black	**XVP C09M**	0.153

Illuminated units and audible units with cream clamping ring

To order, add the suffix W to the references selected above.
Example: XVP C6B3 becomes XVP C6B3W.
Example: XVP C09B becomes XVP C09BW.

Base units

Base units for direct or tube fixing

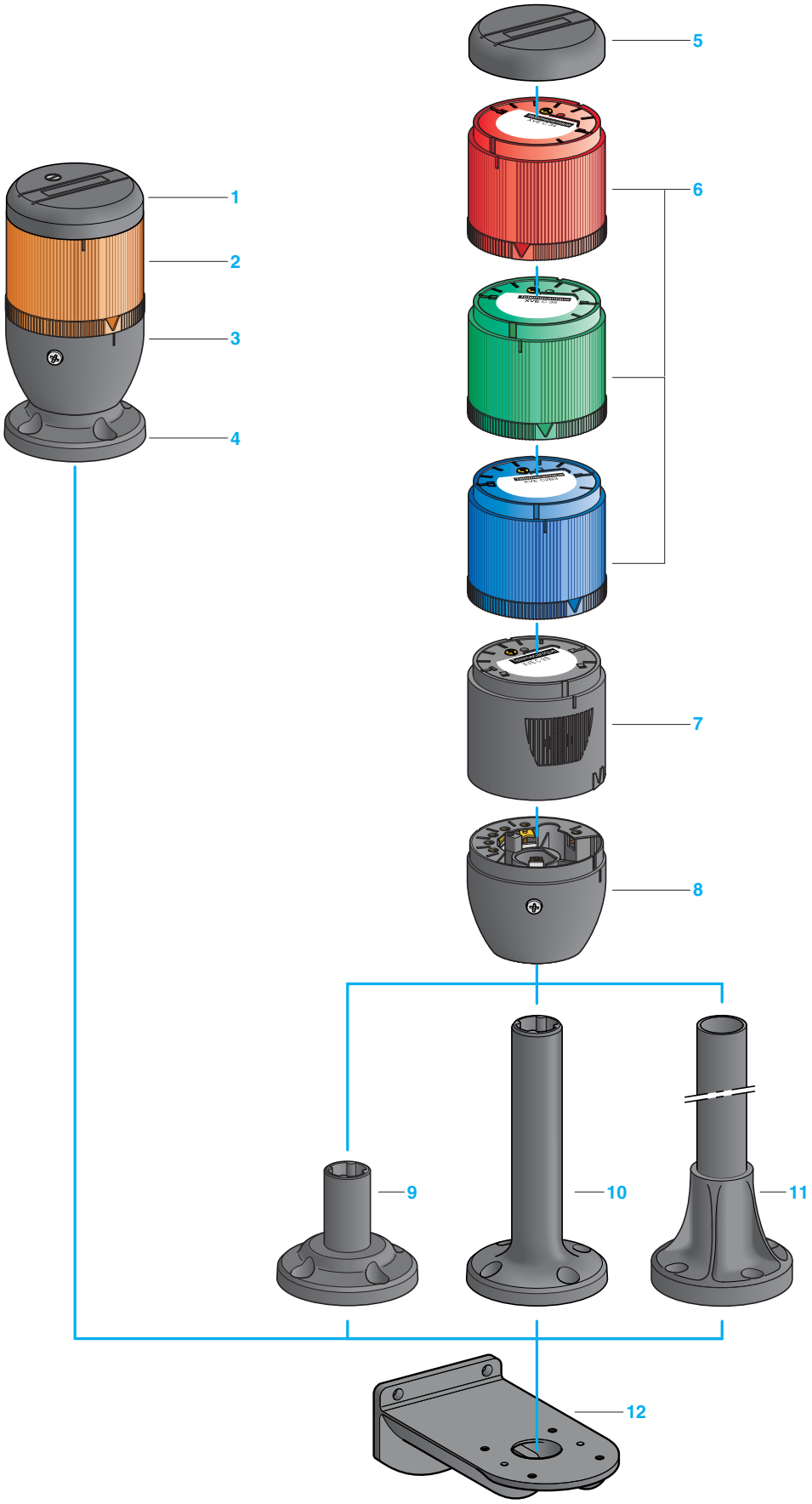
Description	Colour	Reference	Weight kg
Base unit + cover for bared wires or wires with cable end	Black	**XVP C21**	0.125
	Cream	**XVP C21W**	0.125
Base unit + cover for eyelet tags	Cream	**XVP C21WR**	0.125

Accessories

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



Presentation

Illuminated beacons

The XVE illuminated beacons are complete products comprising:

1 A screw fixing cover.
2 1 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 lights

The XVE tower lights are customer assembled products comprising:

5 A cover.
6 1 to 5 coloured illuminated units (green, red, orange, blue or clear) with a choice of three 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 mm, 380 mm or 780 mm.

To be ordered separately:

12 Fixing plate for mounting on vertical support.

References:
page 28

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

Presentation (continued)

The beacons and tower lights of the Harmony® 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.

Composition

■ The XVE beacons are ready to use and incorporate a single steady or “flash” light illuminated unit with a short fixing base.
■ The XVE tower lights are customer assembled and comprise of signalling units that are mounted on a base unit, and a fixing base. These items have to be selected from the catalogue.
■ For a XVE tower light, 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.

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 (average value: 800 cds/m²).

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 all the 5 colours.

Audible signalling

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

Environment

The XVE beacons and tower lights are configured to offer, an IP 42 degree of protection in vertical position *(1)* which is sufficient for the majority of indoor use.
Both the IP 42 pre-configured beacons and tower lights can be upgraded to IP 54 for outdoor use:
□ by using a sealing kit *(2)*,
□ by selecting the suitable tower light base unit *(2)*
□ by adding a fixing base *(2)*.

The whole range conforms with EN/IEC 60947-1 and EN/IEC 60947-5-1 standards.
Products are UL, CSA and CCC certified.

Mounting

Fixed onto support panel using plastic monobloc fixing base or fixing base comprising of an aluminium support tube glued into a plastic fixing plate.

Cabling

By means of terminal block incorporated in base unit. The screw and captive cable clamp type terminals are protected to prevent any accidental contact with live parts.

(1) IP 40 in all other positions.
(2) See page 31.

Signalling Units
Modular tower lights
Harmony® type XVE L Ø 70 mm
Illuminated beacons


XVE L3●●

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, BA 15d, 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


XVE L2●●

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


XVE L6●●

Presentation:
page 27

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


XVE C3●


XVE C2●●●


XVE C5●●●

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, BA 15d, 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

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

XVE C6●●●

Illuminated units with "flash" light signalling

Description	Light source	Supply voltage	Colour of lens unit	Reference	Weight kg
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

XVE C9●

Audible units

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

XVE C21

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

XVE C21P

Presentation:
page 27

Signalling Units
Modular tower lights
Harmony® type XVE Ø 70 mm
Components for beacons and tower lights



XVE Z13 XVD C02



XVB Z02 XVB Z03/Z04



XVB Z01 XVB C12


XVE Z081


XVE Z082


XVE Z083


DL1 BE●S

Fixing components

Description	Height under base unit mm	Colour	Reference	Weight kg
Plastic fixing bases IP 54 protection *(1)*	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

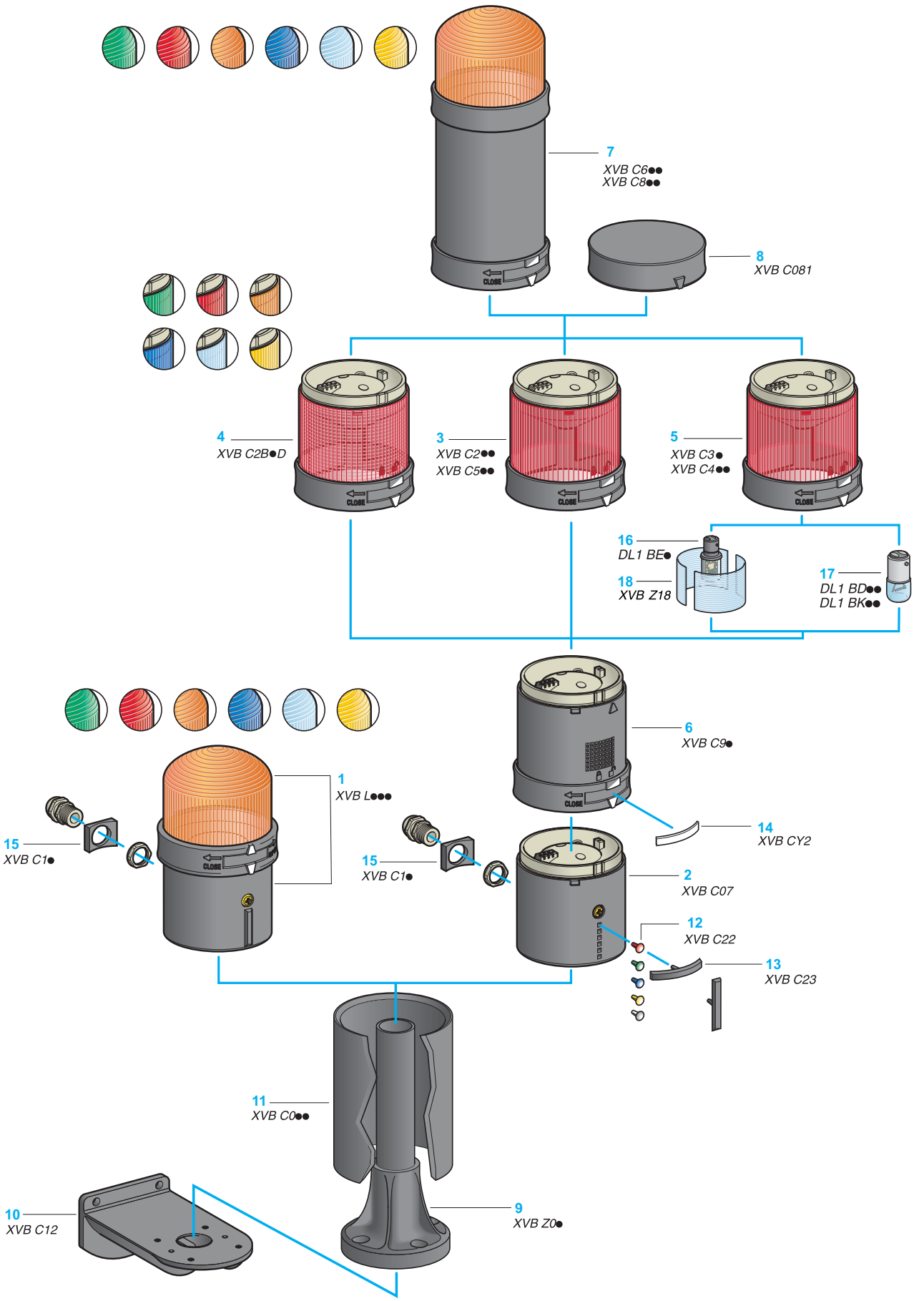
Separate components for beacons and tower lights

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

(1) IP 54 protection in all mounting positions with XVE Z13. With other fixing bases: IP 54 protection only in vertical position.

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



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

Presentation

The beacons and tower lights of the Harmony® XVB range are visual or audible signalling units used for indicating, throughout 360° and at a distance, the various states or operation sequences of a machine or installation. Examples: start, stop machine, no material, call technical staff, fault signalling, etc.

Complete illuminated beacon XVB L

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

Customer assembled tower light XVB C

Variable composition of 1 to 5 illuminated or audible units that are supplied as separate items for customer assembly. Maximum configuration: 5 units or 4 units + 1 "flash" unit.
The **XVB C** tower lights comprise:
- ■ 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. For more information on AS-Interface, please refer to our website www.schneider-electric.om.

Accessories for 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 *(2)*.
- ■ Diffuser 18 *(3)*.

Mounting, protection and conformity to standards

- ■ Base unit fixed directly onto a panel using 2 screws (IP 66 protection).
- ■ Fixed using a fixing base comprising of an aluminium support tube glued into a plastic fixing plate (IP 65 protection).
- ■ Conformity to EN/IEC 60947-5-1 standard.
- ■ Product certified UL, CSA, CCC and GOST.

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) **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.*

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

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

PF110458

XVB L3●

PF110456

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 for direct fixing (IP 66) or tube fixing (IP 65)	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 for direct fixing (IP 66) or tube fixing (IP 65)	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 41.

Presentation:
page 32

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

101407SE

XVB L0B●

Illuminated beacons with steady light signalling

Description	Light source	Colour	Reference	Weight kg
Complete unit comprising: - 1 illuminated unit - 1 base unit for direct fixing (IP 66) or tube fixing (IP 65)	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

PF110455

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 for direct fixing (IP 66) or tube fixing (IP 65)	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 Units
Modular tower lights
Harmony® type XVB L Ø 70 mm
Illuminated beacons with “flash” discharge tube

PG110104SE

XVB L6B●

PF110457

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 for direct fixing (IP 66) or tube fixing (IP 65)	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 1 illuminated unit - 1 base unit for direct fixing (IP 66) or tube fixing (IP 65)	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

Presentation:
page 32

For use with base unit XVB C●●: see page 40

Signalling Units

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)

101405SE

XVB C3●

821002

XVB C4●●

Illuminated units with steady light signalling

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

Illuminated units with integral flashing light signalling

Description	Light source, to be ordered separately *(1)*	Colour	Reference	Weight kg
Illuminated units	Incandescent bulb 7 W max. ∼ 24 V ⎓ 24…48 V or LED	Green	**XVB C4B3**	0.160
		Red	**XVB C4B4**	0.160
		Orange	**XVB C4B5**	0.160
		Blue	**XVB C4B6**	0.160
		Clear	**XVB C4B7**	0.160
		Yellow	**XVB C4B8**	0.160
	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 41.

Signalling Units

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 40

821003

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

821004

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.

Presentation:
page 32

Signalling Units

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 40

821005

XVB C6●●

821006

XVB C8●●

Illuminated units with 5 Joule “flash” discharge tube *(1)*

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 *(1)*

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

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

Signalling Units
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

821007

XVB C9●

Audible units

Description	Characteristics	Reference	Weight kg
Buzzer, 90 dB at 1 m Adjustable with microswitch: - from 70 to 90 dB - continuous or intermittent tone	⎓ 12…48 V	**XVB C9B**	0.170
	∿ 120…230 V	**XVB C9M**	0.180

Base units - for direct (IP 66) 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 m) and fitted with M12 end connector	All types of modular tower lights	AS-Interface *(1)*	**XVB C21B**	–

1013965E

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

1078305E

XVB C081

DF524020

XVB Z18

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

Presentation:
page 32

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

109753

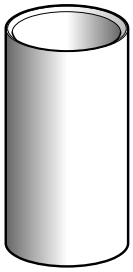
XVB Z02 XVB Z03/Z04

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 (IP 65)	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

821012



XVB C020

Description	Characteristics		Sold in lots of	Unit reference	Weight kg
Incandescent bulbs *(1)* 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 *(1)* 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

109754

XVB Z01

109755

XVB C12

Description	Characteristics		Sold in lots of	Unit reference	Weight kg
Flashing LEDs *(1)* 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

DF524033

DL1 B●●

DF524034

DL1 BD●●/DL1 BK●●

(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.*

Signalling Units

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

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

Presentation

The Ø 70 mm tower lights of the Harmony® XVD range are available in two 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 heat and power consumption. However, incandescent bulbs can also be used *(1)*.

■ A light diffuser, pre-fitted in illuminated units with a base mounted LED *(2)*, 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 light models are available with a 5 Joule orange or red "flash" unit, but other colours (green, blue, yellow and clear) can also be ordered as separate components.

Audible signalling

Pre-cabled XVD 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 dB at a distance of 1 m,

□ Microswitches located in the audible unit enable selection of the signal frequency: continuous or intermittent tone.

Environment

The XVD range has the following characteristics:

■ degree of protection (according to EN/IEC 60529): IP 40,

■ conformity to standards: EN/IEC 60947-5-1,

■ product certifications: UL, CSA and GOST.

Cabling and mounting

■ Pre-cabled XVD tower lights 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.

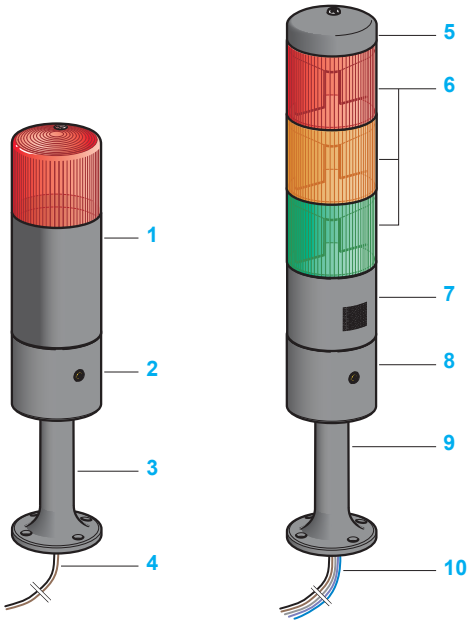
■ The fixing of the combined units is assured by a single screw, the length of which depends on the number of units in the tower light.

(1) ***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.*

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

References:
page 44

Signalling Units
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 XVD tower lights with one illuminated unit

The assembled tower lights comprise:

1 an illuminated unit with “flash” discharge tube (included) and a 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 to 80 mm,

4 different coloured connecting wires with bared ends, length protruding from support tube is 300 mm.

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

The assembled tower lights comprise:

5 a cover,

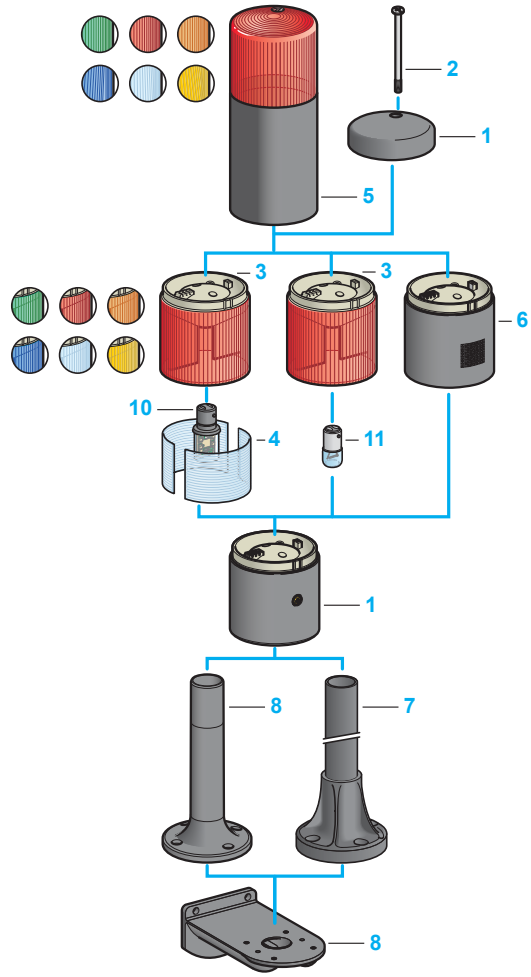
6 two, three or four illuminated units with red, green, orange or clear lens (depending on model) and light source (included),

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 to 80 mm,

10 different coloured connecting wires with bared ends, length protruding from support tube is 300 mm.



Customer assembled Ø 70 mm XVD tower lights

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 mm, 380 mm 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 *(5)*,

11 an incandescent bulb *(5)*.

(1) Electrical connections to the removable terminal block to be made by the user.
(2) Variable length screw depending on the number of units to be combined. To be ordered separately, see page 46.
(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 47.
*(5) **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.*

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

DF522587SE

XVD ●●6

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

1052155E

XVD ●2S●R

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).

Presentation, description:
page 42

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

821022

XVD L3●

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

821021

XVD L4●●

With 5 Joule “flash” discharge tube

Description	Light source (included)	Colour	Reference	Weight kg
Tower light comprising: - 1 illuminated unit - 1 base unit *(2)*	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

821023

XVD L6●●

(1) Incandescent bulbs and LEDs: see page 47.
(2) Set of assembly screws to be ordered separately (see page 46).

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


DF522589

XVD C3●


821025

XVD C4●●


DF524019

XVB Z18


821024

XVD C6●●


821027

XVD C9●


821026

XVD C07

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

Audible units

Description	Adjustment	Characteristics	Reference	Weight kg
Buzzer, 90 dB at 1 m	With microswitches: - from 70 to 90 dB, - continuous or intermittent mode	⎓ 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	Reference	Weight kg
Base unit + cover with bottom cable entry	Tower lights without “flash” discharge tube unit	**XVD C21**	0.180
Base unit only with bottom cable entry	Tower lights with “flash” discharge tube unit	**XVD C07**	0.160

Assembly screws

Screws for assembling signalling units (without “flash” discharge tube unit) on base unit XVD C21	Tower lights with 1 unit	**XVD C03**	0.015
	Tower lights with 2 units	**XVD C04**	0.022
	Tower lights with 3 units	**XVD C05**	0.030
	Tower lights with 4 units	**XVD C06**	0.038
	Tower lights with 5 units	**XVD C08**	0.045
Screws for assembling signalling units (involving 1 “flash” discharge tube unit) on base unit XVD C07	Tower lights with 1 unit + “flash” discharge tube	**XVD C09**	0.036
	Tower lights with 2 units + “flash” discharge tube	**XVD C10**	0.044
	Tower lights with 3 units + “flash” discharge tube	**XVD C11**	0.050
	Tower lights with 4 units + “flash” discharge tube	**XVD C12**	0.059

(1) Incandescent bulbs and LEDS: see page 47.

Presentation, description: page 42

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

109763

XVB Z02

109748

XVB Z03/Z04

DF101418

XVD C02

DF109755

XVB C12

DF524033

DL1 B●●

DF524034

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	Reference	Weight kg
Black fixing base (plastic support tube with integral fixing plate)	100 mm	**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 10 W maxi	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 Units
Rotating beacons Harmony® type XVR
(equipped with Super Bright LED)

XVR 13●●●L

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.

The range involves complete products offering simplicity of use and speed of installation: they are supplied pre-cabled, and equipped with their light source. The use of “Super-bright” LED guarantees a good illuminating power and a long service life (reduced time for maintenance) owing to their high resistance to mechanical shock and vibration. These light sources are also energy saving with low power consumption. A reflecting prism can be used for increasing light diffusion.

4 sizes are available:
- Ø 84 mm (XVR 08). Colours : red, orange, green and blue,
- Ø 106 mm (XVR 10). Colours : red, orange, green and blue,
- Ø 120 mm (XVR 12). Colours : red, orange, green and blue,
- Ø 130 mm (XVR 13). Colours : red, orange.

For more efficiency, Ø 120 mm rotating beacons may be delivered with a complementary audible unit: a buzzer present at the base of the product, with a continuous or intermittant tone and an adjustable sound level of 50 dB to 90 dB at 1 m.

Environment

XVR rotating beacons can offer a high degree of protection:
□ owing to the adjunction of an accessory : a rubber base guarantees a degree of protection type IP 55 or IP 65 for small models,
□ according to the selected model:Ø 130 mm rotating beacons guarantee a degree of protection type IP 66 (resistant to vibration) or IP 67 (see opposite page).

These products meet the requirements of the following standards:
□ EN/IEC 61000-6-2 and EN/IEC 61000-6-4 forØ 84 mm (XVR 08), 106 mm (XVR 10), 120 mm (XVR 12) and 130 mm with direct current (XVR 13B●● and XVR 13J●●),
□ EN/IEC 60947-1 and EN/IEC 60947-5-1 for the otherØ 130 mm rotating beacons (XVR 13●●L) with voltage 24V A.C./D.C., 120 V A.C. or 230 V A.C.

These products are CE, UL and CSA certified.

Connection

The connection is through flying leads, length 400 mm (500 mm for XVR 08) and section 0.83 mm^2 (1,25 mm^2 for XVR 13).

References:
page 49

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


525874

XVR 08●●●


525875

XVR 10●●●

XVR 12●●


525877

XVR 13●●●


PF540658

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 Continuous or intermittent tone Sound level at 1 m: 50 to 90 dB	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	Increasing light diffusion	84	–	**XVR ZR1**	0.010
		106	–	**XVR ZR2**	0.015
		120/130	–	**XVR ZR3**	0.020
Rubber base	Reaching IP 65	84	–	**XVR Z081**	0.040
	Reaching IP 55	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

XVRZ081

XVRZ082

XVRZR1

XVRZR2

XVRZR3

Signalling Units
Sound units Harmony® type XVS
Sirens and electronic alarms

XVS 10●M

Presentation

The sirens and electronic alarms in the Harmony® XVS range 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.

The range involves several types of ready to use products:
- sirens with 2 tones, with very compact size, type XVS 10,
- multisound sirens (43 tones), pre-cabled, 8 channels, type XVS 14,
- electronic alarms, white or black colour, 16 tones, 4 channels, type XVS 72 and XVS 96, to be mounted on panels (protection: IP 54).

The sound, with continuous or intermittent tone:
- guarantees a sound level of 106 dB at 1 m for XVS 10,
- can be adjusted from 0 to 105 dB at 1 m for XVS 14,
- can be adjusted from 0 to 90 dB at 1 m for XVS 72,
- can be adjusted from 0 to 96 dB at 1 m for XVS 96.

Environment

The XVS sirens and electronic alarms offer the following degrees of protection:
- IP 53 for sirens type XVS 10 and XVS 14,
- IP 54 for electronic alarms type XVS 72 and XVS 96.

These products meet the requirements of the following standards:
- EN/IEC 61000-6-2 and EN/IEC 61000-6-3 for voltages 120 V and 230 V A.C. (XVS14 BMW and XVS 72),
- EN/IEC 60947-1 and EN/IEC 60947-5-1 for voltages 12 V and 24 V A.C. (XVS 10, XVS 14 GMW and MMW and XVS 96).

They are CE, UL and CSA certified.

Connection

Products are to be connected:
- through cable-glands for using 6.5 mm to 8.5 mm cables (XVS 10)
- through power wire c.s.a.: 0.52 mm^2 and signal wire c.s.a.: 0.33 mm^2, with flying leads, length 500 mm (XVS 14),
- through screw clamp terminals (XVS 72 and XVS 96).

For more technical information, please refer to our website www.schneider-electric.com.

Signalling Units
Sound units Harmony® type XVS
Sirens and electronic alarms

PF540616

XVS 10●M

PF569825

XVS 14●MW

PF569826

XVS 72BM●●

PF569827

XVS 96BM●●

References

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 sirens 0 to 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 0 to 90 dB, 16 tones Panel Mount DIN72 4 channels	⎓ 12/24	PNP, Black	**XVS 72BMBP**	0.180
		PNP, White	**XVS 72BMWP**	0.180
	⎓ 12/24	NPN, Black	**XVS 72BMBN**	0.180
		NPN, White	**XVS 72BMWN**	0.180
Electronic alarms 0 to 96 dB, 16 tones Panel Mount DIN96 4 channels	⎓ 12/24	PNP, Black	**XVS 96BMBP**	0.400
		PNP, White	**XVS 96BMWP**	0.400
	⎓ 12/24	NPN, Black	**XVS 96BMBN**	0.400
		NPN, White	**XVS 96BMWN**	0.400

Technical information
Protective treatment of equipment according to climatic environment

Depending on the climatic and environmental conditions in which the equipment is placed, Schneider Electric can offer specially adapted products to meet your requirements.

In order to make the correct choice of protective finish, two points should be remembered:
- the prevailing climate of the country is never the only criterion,
- only the atmosphere in the immediate vicinity of the equipment need be considered.

All climates treatment “TC”

This is the standard treatment for Schneider-electric brand equipment and is suitable for the vast majority of applications. It is the equivalent of treatments described as “Klimafest”, “Climateproof”.
In particular, it meets the requirements specified in the following publications:
- Publication UTE C 63-100 (method I), successive cycles of humid heat at:
+ 40 °C and 95 % relative humidity.
- DIN 50016 - Variations of ambient conditions within a climatic chamber:
+ 23 °C and 83 % relative humidity,
+ 40 °C and 92 % relative humidity.

It also meets the requirements of the following marine classification societies: BV-LR-GL-DNV-RINA.

Characteristics

- Steel components are usually treated with zinc. When they have a mechanical function, they may also be painted.
- Insulating materials are selected for their high electrical, dielectric and mechanical characteristics.
- Metal enclosures have a stoved paint finish, applied over a primary phosphate protective coat, or are galvanised (e.g. some prefabricated busbar trunking components).

Limits for use of “TC” (All climates) treatment

- “TC” treatment is suitable for the following temperatures and humidity:

Temperature (°C)	**Relative humidity** (%)
20	95
40	80
50	50

“TC” treatment is therefore suitable for all latitudes and in particular tropical and equatorial regions where the equipment is mounted in normally ventilated industrial premises. Being sheltered from external climatic conditions, temperature variations are small, the risk of condensation is minimised and the risk of dripping water is virtually non-existent.

Extension of use of “TC” (All climates) treatment

In cases where the humidity around the equipment exceeds the conditions described above, or in equatorial regions if the equipment is mounted outdoors, or if it is placed in a very humid location (laundries, sugar refineries, steam rooms, etc.), “TC” treatment can still be used if the following precautions are taken:
- The enclosure in which the equipment is mounted must be protected with a “TH” finish (see next page) and must be well ventilated to avoid condensation and dripping water (e.g. enclosure base plate mounted on spacers).
- Components mounted inside the enclosure must have a “TC” finish.
- If the equipment is to be switched off for long periods, a heater must be provided (0.2 to 0.5 kW per square decimetre of enclosure), that switches on automatically when the equipment is turned off. This heater keeps the inside of the enclosure at a temperature slightly higher than the outside surrounding temperature, thereby avoiding any risk of condensation and dripping water (the heat produced by the equipment itself during normal running is sufficient to provide this temperature difference).
- Special considerations for “Operator dialog” and “Detection” products:
for certain pilot devices, the use of “TC” treatment can be extended to outdoor use provided their enclosure is made of light alloys, zinc alloys or plastic material. In this case, it is also essential to ensure that the degree of protection against penetration of liquids and solid objects is suitable for the applications involved.

Technical information
Protective treatment of equipment according to climatic environment

"TH" treatment for hot and humid environments

This treatment is suitable for hot and humid atmospheres where installations are regularly subject to condensation, dripping water and the risk of fungi.

In addition, plastic insulating components are resistant to attacks from insects such as termites and cockroaches. These properties have often led to this treatment being described as "Tropical Finish", but this does not mean that all equipment installed in tropical and equatorial regions must systematically have undergone "TH" treatment. On the other hand, certain operating conditions in temperate climates may well require the use of "TH" treated equipment (see limitations for use of "TC" treatment).

Special characteristics of "TH" treatment

■ All insulating components are made of materials which are either resistant to fungi or treated with a fungicide, and which have increased resistance to creepage (Standards IEC 60112, NF C 26-220, DIN 5348).

■ Metal enclosures receive a top-coat of stoved, fungicidal paint, applied over a rust inhibiting undercoat. Components with "TH" treatment may be subject to a surcharge *(1)*. Please consult your Regional Sales Office.

Protective treatment selection guide

Surrounding environment	Duty cycle	Internal heating of enclosure when not in use	Type of climate	Protective treatment of equipment	Protective treatment of enclosure
Indoors					
No dripping water or condensation	Unimportant	Not necessary	Unimportant	"TC"	"TC"
Presence of dripping water or condensation	Frequent switching off for periods of more than 1 day	No	Temperate	"TC"	"TH"
			Equatorial	"TH"	"TH"
		Yes	Unimportant	"TC"	"TH"
	Continuous	Not necessary	Unimportant	"TC"	"TH"
Outdoors (sheltered)					
No dripping water or dew	Unimportant	Not necessary	Temperate	"TC"	"TC"
			Equatorial	"TH"	"TH"
Exposed outdoors or near the sea					
Frequent and regular presence of dripping water or dew	Frequent switching off for periods of more than 1 day	No	Temperate	"TC"	"TH"
			Equatorial	"TH"	"TH"
		Yes	Unimportant	"TC"	"TH"
	Continuous	Not necessary	Unimportant	"TC"	"TH"

These treatments cover, in particular, the applications defined by methods I and II of guide UTE C 63-100.

Special precautions for electronic equipment

Electronic products always meet the requirements of "TC" treatment. A number of them are "TH" treated as standard.

Some electronic products (for example: programmable controllers, flush mountable controllers CCX and flush mountable operator terminals XBT) require the use of an enclosure providing a degree of protection to at least IP 54, as defined by standards IEC 60664 and NF C 20 040, for use in industrial applications or in environmental conditions requiring "TH" treatment.

These electronic products, including flush mountable products, must have a degree of protection to at least IP 20 (provided either by their own enclosure or by their installation method) for restricted access locations where the degree of pollution does not exceed 2 (a test booth not containing machinery or other dust producing activities, for example).

Special treatments

For particularly harsh industrial environments, Schneider Electric is able to offer special protective treatments. Please consult your Regional Sales Office.

(1) A large number of the Schneider-electric brand products are "TH" treated as standard and are, therefore, not subject to a surcharge.

Technical information
Product standards and certifications

Standardisation

Conformity to standards

Schneider Electric products satisfy, in the majority of cases, national (for example: BS in Great Britain, NF in France, DIN in Germany), European (for example: CENELEC) or international (IEC) standards. These product standards precisely define the performance of the designated products (such as IEC 60947 for low voltage equipment).
When used correctly, as designated by the manufacturer and in accordance with regulations and correct practices, these products will allow users to build equipment, machine systems or installations that conform to their appropriate standards (for example: IEC 60204-1, relating to electrical equipment used on industrial machines).
Schneider Electric is able to provide proof of conformity of its production to the standards it has chosen to comply with, through its quality assurance system.
On request, and depending on the situation, Schneider Electric can provide the following:
- a declaration of conformity,
- a certificate of conformity (ASEFA/LOVAG),
- a homologation certificate or approval, in the countries where this procedure is required or for particular specifications, such as those existing in the merchant navy.

Code	Certification authority		Country
	Name	Abbreviation	
ANSI	American National Standards Institute	ANSI	USA
BS	British Standards Institution	BSI	Great Britain
CEI	Comitato Elettrotecnico Italiano	CEI	Italy
DIN/VDE	Verband Deutscher Electrotechniker	VDE	Germany
EN	Comité Européen de Normalisation Electrotechnique	CENELEC	Europe
GOST	Gosudarstvenne Komitet Standartov	GOST	Russia
IEC	International Electrotechnical Commission	IEC	Worldwide
JIS	Japanese Industrial Standards Committee	JISC	Japan
NBN	Institut Belge de Normalisation	IBN	Belgium
NEN	Nederlands Normalisatie Institut	NNI	Netherlands
NF	Union Technique de l'Electricité	UTE	France
SAA	Standards Association of Australia	SAA	Australia
UNE	Asociacion Española de Normalizacion y Certificacion	AENOR	Spain

European EN standards

These are technical specifications established in conjunction with, and with approval of, the relative bodies within the various CENELEC member countries (European Union, European Free Trade Association and many central and eastern European countries having «member» or «affiliated» status). Prepared in accordance with the principle of consensus, the European standards are the result of a weighted majority vote. Such adopted standards are then integrated into the national collection of standards, and contradictory national standards are withdrawn.
European standards incorporated within the French collection of standards carry the prefix NF EN. At the 'Union Technique de l'Electricité' *(Technical Union of Electricity)* (UTE), the French version of a corresponding European standard carries a dual number: European reference (NF EN …) and classification index (C …).
Therefore, the standard NF EN 60947-4-1 relating to motor contactors and starters, effectively constitutes the French version of the European standard EN 60947-4-1 and carries the UTE classification C 63-110.
This standard is identical to the British standard BS EN 60947-4-1 or the German standard DIN EN 60947-4-1.
Whenever reasonably practical, European standards reflect the international standards (IEC).
With regard to automation system components and distribution equipment, in addition to complying with the requirements of French NF standards, Schneider Electric brand components conform to the standards of all other major industrial countries.

Regulations

European Directives

Opening up of European markets assumes harmonisation of the regulations pertaining to each of the member countries of the European Union.
The purpose of the European Directive is to eliminate obstacles hindering the free circulation of goods within the European Union, and it must be applied in all member countries. Member countries are obliged to transcribe each Directive into their national legislation and to simultaneously withdraw any contradictory regulations. The Directives, in particular those of a technical nature which concern us, only establish the objectives to be achieved, referred to as "essential requirements".
The manufacturer must take all the necessary measures to ensure that his products conform to the requirements of each Directive applicable to his production.
As a general rule, the manufacturer certifies conformity to the essential requirements of the Directive(s) for his product by affixing the CE mark.
The CE mark is affixed to Schneider Electric brand products concerned, in order to comply with French and European regulations.

Significance of the CE mark
- The CE mark affixed to a product signifies that the manufacturer certifies that the product conforms to the relevant European Directive(s) which concern it; this condition must be met to allow free distribution and circulation within the countries of the European Union of any product subject to one or more of the E.U. Directives.
- The CE mark is intended solely for national market control authorities.
- The CE mark must not be confused with a conformity marking.

Technical information
Product standards and certifications

European Directives (continued)

For electrical equipment, only conformity to standards signifies that the product is suitable for its designated function, and only the guarantee of an established manufacturer can provide a high level of quality assurance.
For Schneider Electric brand products, one or several Directives are likely to be applicable, depending on the product, and in particular:

- the Low Voltage Directive 2006/95/EC: the CE mark relating to this Directive has been compulsory since 16th January 2007.
- the Electromagnetic Compatibility Directive 89/336/EEC, amended by Directives 92/31/EEC and 93/68/EEC: the CE mark on products covered by this Directive has been compulsory since 1st January 1996.

ASEFA-LOVAG certification

The function of ASEFA (Association des Stations d'Essais Française d'Appareils électriques - *Association of French Testing Stations for Low Voltage Industrial Electrical Equipment)* is to carry out tests of conformity to standards and to issue certificates of conformity and test reports.
ASEFA laboratories are authorised by the French authorisation committee (COFRAC).
ASEFA is now a member of the European agreement group LOVAG (Low Voltage Agreement Group). This means that any certificates issued by LOVAG/ASEFA are recognised by all the authorities which are members of the group and carry the same validity as those issued by any of the member authorities.

Quality labels

When components can be used in domestic and similar applications, it is sometimes recommended that a "Quality label" be obtained, which is a form of certification of conformity.

Code	Quality label	Country
CEBEC	Comité Electrotechnique Belge	Belgium
KEMA-KEUR	Keuring van Electrotechnische Materialen	Netherlands
NF	Union Technique de l'Electricité	France
ÖVE	Österreichischer Verband für Electrotechnik	Austria
SEMKO	Svenska Electriska Materiel Kontrollanatalten	Sweden

Product certifications

In some countries, the certification of certain electrical components is a legal requirement. In this case, a certificate of conformity to the standard is issued by the official test authority.
Each certified device must bear the relevant certification symbols when these are mandatory:

Code	Certification authority	Country
CSA	Canadian Standards Association	Canada
UL	Underwriters Laboratories	USA
CCC	China Compulsory Certification	China

Note on certifications issued by the Underwriters Laboratories (UL). There are two levels of approval:

"Recognized" (UL) — The component is fully approved for inclusion in equipment built in a workshop, where the operating limits are known by the equipment manufacturer and where its use within such limits is acceptable by the Underwriters Laboratories.
The component is not approved as a "Product for general use" because its manufacturing characteristics are incomplete or its application possibilities are limited.
A "Recognized" component does not necessarily carry the certification symbol.

"Listed" (UL) — The component conforms to all the requirements of the classification applicable to it and may therefore be used both as a "Product for general use" and as a component in assembled equipment. A "Listed" component must carry the certification symbol.

Marine classification societies

Prior approval (= certification) by certain marine classification societies is generally required for electrical equipment which is intended for use on board merchant vessels.

Code	Classification authority	Country
BV	Bureau Veritas	France
DNV	Det Norske Veritas	Norway
GL	Germanischer Lloyd	Germany
LR	Lloyd's Register	Great Britain
NKK	Nippon Kaiji Kyokaï	Japan
RINA	Registro Italiano Navale	Italy
RRS	Register of Shipping	Russia

Note

For further details on a specific product, please refer to the "Characteristics" pages in this catalogue or consult your Regional Sales Office.

Technical information
Degrees of protection provided by enclosures
IP code

Degrees of protection against the penetration of solid bodies, water and personnel access to live parts

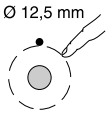
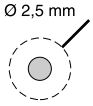
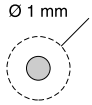
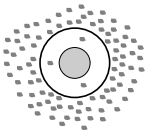
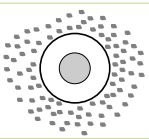
The European standard EN 60529 dated October 1991, IEC publication 529 (2nd edition - November 1989), defines a coding system (IP code) for indicating the degree of protection provided by electrical equipment enclosures against accidental direct contact with live parts and against the ingress of solid foreign objects or water.
This standard does not apply to protection against the risk of explosion or conditions such as humidity, corrosive gasses, fungi or vermin.
Certain equipment is designed to be mounted on an enclosure which will contribute towards achieving the required degree of protection (example : control devices mounted on an enclosure).
Different parts of an equipment can have different degrees of protection (example : enclosure with an opening in the base).
Standard NF C 15-100 (May 1991 edition), section 512, table 51 A, provides a cross-reference between the various degrees of protection and the environmental conditions classification, relating to the selection of equipment according to external factors.
Practical guide UTE C 15-103 shows, in the form of tables, the characteristics required for electrical equipment (including minimum degrees of protection), according to the locations in which they are installed.

IP ●●● code

The IP code comprises **2 characteristic numerals** (e.g. **IP 55**) and may include **an additional letter** when the actual protection of personnel against direct contact with live parts is better than that indicated by the first numeral (e.g. IP 20C).
Any characteristic numeral which is unspecified is replaced by an X (e.g. IP XXB).

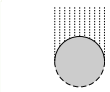
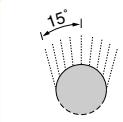
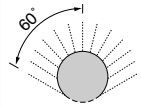
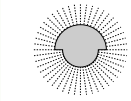
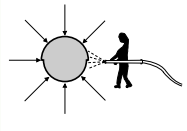
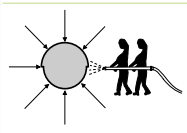
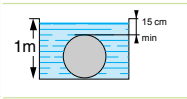
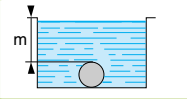
1st characteristic numeral:

corresponds to protection of the equipment against penetration of solid objects and protection of personnel against direct contact with live parts.

	Protection of the equipment		Protection of personnel
0	Non-protected		Non-protected
1		Protected against the penetration of solid objects having a diameter greater than or equal to 50 mm	Protected against direct contact with the back of the hand (accidental contacts).
2		Protected against the penetration of solid objects having a diameter greater than or equal to 12.5 mm.	Protected against direct finger contact.
3		Protected against the penetration of solid objects having a diameter greater than or equal to 2.5 mm.	Protected against direct contact with a Ø 2.5 mm tool.
4		Protected against the penetration of solid objects having a diameter greater than or equal to 1 mm.	Protected against direct contact with a Ø 1 mm wire.
5		Dust protected (no harmful deposits).	Protected against direct contact with a Ø 1 mm wire.
6		Dust tight.	Protected against direct contact with a Ø 1 mm wire.

2nd characteristic numeral:

corresponds to protection of the equipment against penetration of water with harmful effects.

0	Non-protected	
1		Protected against vertical dripping water, (condensation).
2		Protected against dripping water at an angle of up to 15°.
3		Protected against rain at an angle of up to 60°.
4		Protected against splashing water in all directions.
5		Protected against water jets in all directions.
6		Protected against powerful jets of water and waves.
7		Protected against the effects of temporary immersion.
8		Protected against the effects of prolonged immersion under specified conditions.

Additional letter:

corresponds to protection of personnel against direct contact with live parts.

A	With the back of the hand.
B	With the finger.
C	With a Ø 2.5 mm tool.
D	With a Ø 1 mm wire.

Technical information
Degrees of protection provided by enclosures
IK code

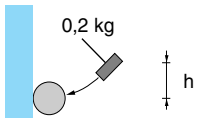
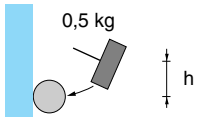
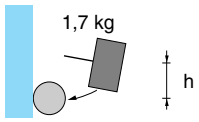
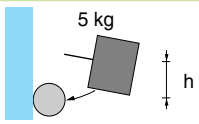
Degrees of protection against mechanical impact

The European standard EN 50102 dated March 1995 defines a coding system (IK code) for indicating the degree of protection provided by electrical equipment enclosures against external mechanical impact.
Standard NF C 15-100 (May 1991 edition), section 512, table 51 A, provides a cross-reference between the various degrees of protection and the environmental conditions classification, relating to the selection of equipment according to external factors.
Practical guide UTE C 15-103 shows, in the form of tables, the characteristics required for electrical equipment (including minimum degrees of protection), according to the locations in which they are installed.

IK ●● code

The IK code comprises **2 characteristic numerals** (e.g. **IK 05**).

2 characteristic numerals:
corresponding to a value of impact energy.

		h (cm)	Energy (J)
00	Non-protected		
01		7.5	0.15
02		10	0.2
03		17.5	0.35
04		25	0.5
05		35	0.7
06		20	1
07		40	2
08		30	5
09		20	10
10		40	20

Product reference index

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