Tower Lights & Beacons

Catalog
2011

Contents

Harmony Tower Lights and Beacons provide long-distance indication of the operation status or sequences of machines using lights and buzzers.

Harmony® XVB Tower Lights and Beacons
The best selection of customer-assembled modular 70 millimeter diameter indicators. No tools are required when assembling stacking units.

Harmony® XVP Tower Lights
50 millimeter diameter customer-assembled indicators with similar construction and features of the XVB in a compact size.

Harmony® XVE Tower Lights and Beacons
Bright visual indication in a 70mm diameter cost-effective product. Each stackable light or buzzer segment includes a screw for customer assembly.

Harmony® XVC Tower Lights
Available in 1 to 5 LED colored light segments with or without integrated buzzers in 40, 60, and 100mm diameters. Save installation time and money with the pre-wired, color coded, one-piece construction which eliminates the need to select and wire individual components.

Harmony® XVR Rotating Mirror Beacons
Eye-catching indicators with long-life Red, Orange, Green, or Blue LEDs in different diameter sizes. Ideal for use with conveyors, forklifts, and electrical control panels.

Harmony® XVS Sirens and Electronic Alarms
XVS Sirens include up to 43 selectable tones with volume control up to 105 decibels. XVS Electronic Alarms include 16 selectable tones or melodies with four inputs and volume control up to 90 decibels.

Type of Product	Beacon	Tower Lights		Tower Lights & Beacons
Family	XVBL	XVBC	XVP	XVE
Diameter	70 mm	70 mm	50 mm	70 mm
Features	Product for customer configuration and assembly			
Approvals	UL File E164353 CCN NKCR			
	CSA File LR 44087 Class 3211 03			
Conforming to Standards	CE Marked			
	IEC/EN 60947-5-1			
	UL508			
	CSA 22 2 No 14			
Degree of Protection	IP65			IP42
Light Source	LED or Incandescent			
Electrical Consumption				
LED Steady	24 Vac/dc: <30 mA	24 Vac/dc: <80 mA		24 Vac/dc: <25 mA
	120-230 Vac: <30 mA	120-230 Vac: <30 mA		120-230 Vac: <25 mA
LED Flashing with Buzzer	24 Vac/dc: <40 mA	24 Vac/dc: <40 mA		24 Vac/dc: <30 mA
	120-230 Vac: <15 mA	120-230 Vac: <15 mA		120-230 Vac: <25 mA
Strobe (Energized)	24 Vdc: 5 Joules unit <430 mA; 10 J unit; <850 mA	24 Vdc: <= 40 mA		24 Vdc: <= 85 mA
	120 Vac: 5 Joules unit <130 mA; 10 J unit; <260 mA	120 Vac: <= 20 mA		120 Vac: <= 85 mA
	230 Vac: 5 Joules unit <105 mA; 10 J unit; <210 mA	230 Vac: <= 11 mA		230 Vac: <= 25 mA
Audible Sounders	12-48 Vac/dc: <20 mA	24 Vdc: <= 15 mA		—
	120-230 Vac: <50 mA	120 Vac: <= 15 mA		—
	—	230 Vac: <= 12 mA		—
Connection Type	Screw Clamp			
Cable Size	1 x 16 AWG (1.5 mm²) With Cable End	2 x 16 AWG (1.5 mm²) With Cable End		
Torque Value for Wiring Terminals	4.4 lb-in (0.5 N-m)			
Page	6	6	16	24

Schneider Electric

Type of Product	Tower Lights			Rotating Mirror Beacons	Sirens & Alarms
Family	XVC 4	XVC 6	XVC 1	XVR	XVS
Diameter	40 mm	60 mm	100 mm	84/106/120/130 mm	—
Features	All devices are pre-assembled and pre-wired			All devices are pre-assembled and pre-wired. XVR12•••S includes buzzer: 70 to 90 decibels.	Adjustable Tones XVS14BMW, 0 to 105 db, 43 Tones XVS73BM••, 0 to 90 db, 16 Tones
Approvals	UL Recognized E164353 CCN NKCR CSA LR44087 Class 3211-03			UL Recognized E164353 CNN NKCR CSA LR44087 Class 3211-03	UL Recognized E164353 CNN UCST CSA LR44087 Class 3211-03
Conforming to Standards	CE Marked EN61000-6-2 EN61000-6-3 — UL 508 CSA 22.2 No 14 IP54	CE Marked EN61000-6-2 EN61000-6-3 EN61000-6-4 UL 508 CSA 22.2 No 14 IP54		CE Marked EN61000-6-2 EN61000-6-3 — UL 508 CSA 22.2 No 14 IP23/IP65/IP66	CE Marked — — — UL 508 CSA 22.2 No 14 IP53
Light Source	LED				—
Electrical Consumption LED Steady	1 Unit = 40 mA; 2 Unit = 80 mA; 3 Unit = 120 mA; 4 Unit = 160 mA 5 Unit = 200 mA;		24 V; 1 Unit = 100 mA; 2 Unit = 200 mA; 3 Unit = 300 mA; 4 Unit = 400 mA 5 Unit = 500 mA;	XVR08, XVR10, XVR12, and XVR13 (without buzzer) 12 Vac/dc: 360 mA 24 Vac/dc: 230 mA	—
with Buzzer			24 V; 1 Unit = 150 mA; 2 Unit = 250 mA; 3 Unit = 350 mA; 4 Unit = 450 mA 5 Unit = 550 mA;	XVR12 with buzzer: 12 Vac/dc: 400 mA 24 Vac/dc: 230 mA	—
	—	—	—	—	XVS72BM 12 Vdc: 350 mA 24 Vdc: 400 mA
Audible Sounders	—	—	—	—	XVS72BM 12 Vdc: 280 mA 24 Vdc: 190 mA
Connection Type				Pre-wired	XVS14BMW Pre-wired, Color coded wires XVS72BM•• Not Pre-wired
Cable Size	22 AWG (0.33 mm²)			18 AWG (0.75 mm²)	—
Page	32	32	32	41	45

Schneider Electric

Tower Lights and Beacons
70 mm Diameter
Harmony® XVB

7
XVBC6●●
XVBC8●●

8
XVBC081

4
XVBC2B●D

3
XVBC2●●
XVBC5●●

5
XVBC3●
XVBC4●●

16
DL1BE●

18
XVBZ18

17
DL1BD●●
DL1BK●●

6
XVBC9●

1
XVBL●●●

15
XVBC1●

15
XVBC1●

14
XVBCY2

2
XVBC07

12
XVBC22

13
XVBC23

11
XVBC0●●

10
XVBC12

9
XVBZ0●

Tower Lights and Beacons
70 mm Diameter
Harmony® XVB

Harmony XVB tower lights and beacons are visual or audible signaling units used for indicating (with 360° visibility and visible at a distance) the various states of operation for a device or installation. Examples include: start, stop machine, no material, call technical staff, and fault signaling.

Illuminated Beacon

Complete Product XVBL

Ready assembled with a single illuminated signaling unit:
■ Steady light (with incandescent bulb or LED),
■ Flashing light (with incandescent bulb or LED),
■ "Flash" (with discharge tube).

The **XVBL** beacon includes:
■ A base unit with a removable terminal block and bottom or side cable entry.
■ One colored illuminated unit (green, red, orange, blue, clear, or yellow).

Tower Lights

Customer Assembled Product XVBC

Variable assembly of one to five illuminated or audible units which are supplied as separate items (not pre-assembled). Maximum configuration: five units or four units + one "flash" unit.

The **XVBC** tower lights include:
■ A base unit with a removable terminal block and bottom or side cable entry (**2**).
■ One to five colored illuminated units (green, red, orange, blue, clear, or yellow):
□ with integral LED (**3**),
□ with integral LED and diffuser (**4**),
□ for incandescent bulbs or base mounted LEDs (**5**).
■ One or two audible units (**6**).
■ A maximum of one "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 automatically connected.
■ A light diffuser, pre-fitted in illuminated units (XVBC2B●D), with a base mounted LED, distributes the light evenly over the lens surface. When using the indicator banks in bright ambient light conditions, remove the diffuser to improve contrast.

Accessories

For Beacons XVBL and Indicator Banks XVBC

■ Mounting base comprised of a support tube glued into a plastic mounting plate, to provide a height beneath the base unit of 80, 380 or 780 mm (3.14, 15, or 30.71 in) (**9**).
■ Mounting plate for mounting on a vertical support (**10**).
■ Support tube concealment cover, height of 100, 400, or 800 mm (3.94, 15.75, or 31.5 in) (**11**).
■ Colored markers (**12**).
■ Legend holder with legend (**13**).
■ Legends that attach to the locking ring of each signaling unit for identification (**14**).
■ Adaptor and cable gland (**15**).
■ Base mounted LED (**16**) or incandescent bulb (**17**).
■ Diffuser (**18**) [1].

Installation

Mounting

■ Base unit fixed directly onto panel using 2 screws.
■ Fixed using a mounting base comprised of an aluminum support tube glued into a plastic mounting plate.

Cabling

■ Through a removable terminal block incorporated in the base unit (simplified wiring).

[1] The diffuser can only be used with LED illuminated units. Not compatible with units fitted with an incandescent bulb or "flash" discharge tube.

Tower Lights and Beacons
70 mm Diameter
Harmony® XVB

Environment Specifications

Product Certifications	Standard version		CSA C22-2 n°14, UL 508, CCC, GOST
Conformity to Standards			EN/IEC 60947-5-1
Protective Treatment	Standard version Conforming to UTE C63-100		"TC"
Ambient Air Temperature	For storage	**°C (F)**	- 40…+ 70 (-40…+158)
	For operation [1]	**°C (F)**	**Illuminated units with steady light signaling:** - 25…+ 70 (-13…+158), with 7 W incandescent bulb - 25…+ 50 (-13…+122), with LED
		°C (F)	**Illuminated units with flashing light signaling:** - 25…+ 50 (-13…+122), with 7 W incandescent bulb - 25…+ 50 (-13…+122), with LED
		°C (F)	**Illuminated units with "flash" discharge tube:** - 25…+ 50 (-13…+122)
		°C (F)	**Audible units:** - 25…+ 50 (-13…+122), with buzzer
Electric Shock Protection conforming to IEC 61140	Mounted on support tube		Class I
	Mounted on base unit		Class II
Degree of Protection	Conforming to IEC 60529		IP 65 (mounted on mounting base XVBZ0●) IP 66 (mounted directly on base unit)
	Conforming to UL 508		Type 4X NEMA "Indoor"
Material	Illuminated units		Polycarbonate
	Base unit and cover		Glass-reinforced polyamide and polycarbonate
	Support tube		Painted aluminum
	Mounting plate for use on vertical support		Zamak
	Mounting plate for use on horizontal support		Polyamide 66
	Support tube concealment cover		ABS

(1) WARNING: RISK OF OVERHEATING:
- *Illuminated units with incandescent bulbs must not be combined with LED illuminated units, due to the risk of overheating.*
- *When different units (steady or flashing) are combined, the maximum temperature is limited to that of the weaker unit.*

Schneider Electric

Tower Lights and Beacons
70 mm Diameter
Harmony® XVB

Electrical Specifications

Rated Insulation Voltage (Ui)	Conforming to EN/IEC 60947-1	**V**	250
Voltage Limits	Conforming to EN/IEC 60947-5-1	**V**	0.85 to 1.10 Un (Un: nominal voltage)
Consumption	LED units	**mA**	**Steady light signaling:** 24 Vac/dc: < 47 120 Vac: < 17 230 Vac: < 17
		mA	**Strobe light signaling:** 24 Vac/dc: < 47 120 Vac: < 17 230 Vac: < 17
	Units with discharge tube [1]	**mA**	**Strobe light signaling:** 24 Vdc: 5 J unit: < 430; 10 J unit: < 850 120 Vac: 5 J unit: < 130; 10 J unit: < 260 230 Vac: 5 J unit: < 105; 10 J unit: < 210
	Audible units	**mA**	12…48 Vac/dc: < 20 120…230 Vac: < 50
Rated Impulse Withstand Voltage	Conforming to EN/IEC 60947-1	**kV**	Uimp = 4
Light Source	Illuminated units with steady or flashing light signaling		LEDs: degree of pollution 2 Bulbs with BA 15d base fitting, maximum power 7 W
Illuminating Power	Units with discharge tube	**cds**	13 (integral high intensity tube) with clear lens unit: 5 J tube 26 (integral high intensity tube) with clear lens unit: 10 J tube
Audible Unit	Continuous or intermittent tone	**dB**	90 at 1 m
	Fundamental frequency	**kHz**	2.8
Terminal Referencing			1 terminal referenced "C" common to all 5 units
			1 or 5 terminals referenced 1 to 5, depending on number of units
Connection	Maximum clamping capacity on protected, ready-to-tighten, screw and captive cable clamp terminals	**mm²**	1 x 1.5 with cable end 2 x 16 AWG
Torque Value for Wiring Terminals		**lb-in (N-m)**	4.4 (0.5)
Frequency of Illuminated Units	Illuminated units with flashing light signaling	**Hz**	1
	Illuminated units with discharge tube	**Hz**	1

(1) **WARNING** RISK OF OVERHEATING: Illuminated units with a "flash" discharge tube are not suitable for steady light signaling.

XVBL3●

XVBL4B●

XVBL8B●

Beacons with Steady Light Signaling

Description	Light source (ordered separately)	Color	Catalog Number	Weight kg (lb)
Complete Unit Includes: - 1 lens unit - 1 base unit (direct or tube mounting)	Bulb (10 W max.) not included 250 V max.	Green	**XVBL33**	0.260 (0.57)
		Red	**XVBL34**	0.260 (0.57)
		Orange	**XVBL35**	0.260 (0.57)
		Blue	**XVBL36**	0.260 (0.57)
		Clear	**XVBL37**	0.260 (0.57)
		Yellow	**XVBL38**	0.260 (0.57)

Beacons with Integral Flashing Light Signaling

Description	Light Source (1) (ordered separately)	Color	Catalog Number	Weight kg (lb)
Complete Unit Includes: - 1 lens unit - 1 base unit (direct or tube mounting)	Incandescent bulb 7 W max. 24 Vac 24…48 Vdc	Green	**XVBL4B3**	0.280 (0.62)
		Red	**XVBL4B4**	0.280 (0.62)
		Orange	**XVBL4B5**	0.280 (0.62)
		Blue	**XVBL4B6**	0.280 (0.62)
		Clear	**XVBL4B7**	0.280 (0.62)
		Yellow	**XVBL4B8**	0.280 (0.62)

(1) Incandescent bulbs and LEDs, see page 13.

Beacons with 10 Joule "Strobe" Discharge Tube

Description	Light Source	Color	Catalog Number	Weight kg (lb)
Complete Unit Includes: - 1 illuminated unit - 1 base unit (direct or tube mounting)	Integral "strobe" discharge tube 24 Vac/dc	Green	**XVBL8B3**	0.450 (0.99)
		Red	**XVBL8B4**	0.450 (0.99)
		Orange	**XVBL8B5**	0.450 (0.99)
		Blue	**XVBL8B6**	0.450 (0.99)
		Clear	**XVBL8B7**	0.450 (0.99)
		Yellow	**XVBL8B8**	0.450 (0.99)
	Integral "strobe" discharge tube 120 Vac	Green	**XVBL8G3**	0.460 (1.01)
		Red	**XVBL8G4**	0.460 (1.01)
		Orange	**XVBL8G5**	0.460 (1.01)
		Blue	**XVBL8G6**	0.460 (1.01)
		Clear	**XVBL8G7**	0.460 (1.01)
		Yellow	**XVBL8G8**	0.460 (1.01)

Schneider Electric

Tower Lights and Beacons
70 mm Diameter
Harmony® XVBC

XVBC3●

XVBC4●●

Lens Units with Steady Light Signaling				
Description	**Light Source (ordered separately)**	**Color**	**Catalog Number**	**Weight kg (lb)**
Illuminated Units	Bulb (10 W max.) not included 250 Vac max	Green	**XVBC33**	0.140 (0.31)
		Red	**XVBC34**	0.140 (0.31)
		Orange	**XVBC35**	0.140 (0.31)
		Blue	**XVBC36**	0.140 (0.31)
		Clear	**XVBC37**	0.140 (0.31)
		Yellow	**XVBC38**	0.140 (0.31)

Description	**Light Source (1) (ordered separately)**	**Color**	**Catalog Number**	**Weight kg (lb)**
Illuminated Units	Incandescent bulb 7 W max. 24 Vac 24…48 Vdc or LED	Green	**XVBC4B3**	0.160 (0.35)
		Red	**XVBC4B4**	0.160 (0.35)
		Orange	**XVBC4B5**	0.160 (0.35)
		Blue	**XVBC4B6**	0.160 (0.35)
		Clear	**XVBC4B7**	0.160 (0.35)
		Yellow	**XVBC4B8**	0.160 (0.35)
	Incandescent bulb 7 W max. 48…230 Vac or LED	Green	**XVBC4M3**	0.160 (0.35)
		Red	**XVBC4M4**	0.160 (0.35)
		Orange	**XVBC4M5**	0.160 (0.35)
		Blue	**XVBC4M6**	0.160 (0.35)
		Clear	**XVBC4M7**	0.160 (0.35)
		Yellow	**XVBC4M8**	0.160 (0.35)

(1) Incandescent bulbs and LEDs, see page 13.

XVBC8●●

Lens Units with 10 Joule "Strobe" Discharge Tube				
Description	**Light source**	**Color**	**Catalog Number**	**Weight kg (lb)**
Illuminated Units	Integral "strobe" discharge tube 24 Vdc	Green	**XVBC8B3**	0.305 (0.67)
		Red	**XVBC8B4**	0.305 (0.67)
		Orange	**XVBC8B5**	0.305 (0.67)
		Blue	**XVBC8B6**	0.305 (0.67)
		Clear	**XVBC8B7**	0.305 (0.67)
		Yellow	**XVBC8B8**	0.305 (0.67)
	Integral "strobe" discharge tube 120 Vac	Green	**XVBC8G3**	0.315 (0.69)
		Red	**XVBC8G4**	0.315 (0.69)
		Orange	**XVBC8G5**	0.315 (0.69)
		Blue	**XVBC8G6**	0.315 (0.69)
		Clear	**XVBC8G7**	0.315 (0.69)
		Yellow	**XVBC8G8**	0.315 (0.69)

Tower Lights and Beacons
70 mm Diameter
Harmony® XVBC (customer assembly, up to 5 units)
Indicator Banks (audible units, base units, cover, and accessories)

XVBC9●

Audible Units

Description	Specifications	Catalog Number	Weight kg (lb)
Buzzer, 90 dB at 1 m Adjustable: - 70 or 90 dB - Continuous or intermittent tone using microswitch	12…48 Vdc	**XVBC9B**	0.170 (0.37)
	120…230 Vac	**XVBC9M**	0.180 (0.40)

Base Units (for direct or tube mounting)

Description	For use with	Catalog Number	Weight t kg (lb)
Base Unit + Cover with Bottom or Side Cable Entry	Banks without "flash" discharge tube unit (includes gasket)	**XVBC21**	0.190 (0.42)

Accessories

Description	Application	Catalog Number	Weightt kg (lb)
Cover only	For use with XVBC2, XVBC3, XVBC4, XVBC5 and XVBC9	**XVBC081**	0.030 (0.07)
Set of 6 Colored Markers	Identification of the unit position if the bank is dismantled	**XVBC22**	0.001 (0.002)
Set of 5 Legend Holders	Identification of stacked units on the base unit	**XVBC23**	0.002 (0.004)
Adaptor for Side Entry through Base Unit	With 13P cable gland	**XVBC14**	0.015 (0.03)

Schneider Electric

Tower Lights and Beacons
70 mm Diameter
Harmony® XVB
Tower Lights and Beacons Accessories

XVBZ02   XVBZ03/Z04
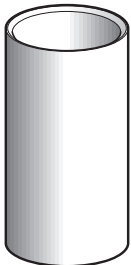
XVBC020

XVBC12

DL1B●●

DL1BD●●/DL1BK●●

Accessories (continued)

Description	Height Under Base Unit mm (in)		Color	Catalog Number	Weight kg (lb)
Mounting Tube (Tube with plastic mounting base)	80 (3.15)		Black aluminum	XVBZ02	0.110 (0.24)
			Aluminum	XVBZ02A	0.110 (0.24)
	380 (14.96)		Black aluminum	XVBZ03	0.200 (0.44)
			Aluminum	XVBZ03A	0.200 (0.44)
	780 (30.71)		Black aluminum	XVBZ04	0.325 (0.72)
			Aluminum	XVBZ04A	0.325 (0.72)

Description	For use with	Material	Catalog Number	Weight kg (lb)
Mounting Tube Concealment Cover	XVBZ02, XVBZ02A	ABS	XVBC020	0.080 (0.18)
	XVBZ03, XVBZ03A	ABS	XVBC030	0.305 (0.67)
	XVBZ04, XVBZ04A	ABS	XVBC040	0.610 (1.34)
Wall Mount Bracket	Base unit (direct mounting), mounting plate XVB Z01, or mounting bases XVBZ0●	Zamak	XVBC12	0.380 (0.84)

Description	Specifications		Sold in lots of	Catalog Number	Weight kg (lb)
Incandescent Bulbs BA 15d Base Fitting	12 V	7 W	10	DL1BEJ	0.090 (0.20)
	24 V	6.5 W	10	DL1BEB	0.090 (0.20)
	48 V	6 W	10	DL1BEE	0.090 (0.20)
	120 V	7 W	10	DL1BEG	0.090 (0.20)
	230 V	7 W	10	DL1BEM	0.090 (0.20)
LEDs BA 15d Base Fitting	24 Vdc	White	1	DL1BDB1	0.015 (0.03)
		Green	1	DL1BDB3	0.015 (0.03)
		Red	1	DL1BDB4	0.015 (0.03)
		Orange	1	DL1BDB5	0.015 (0.03)
		Blue	1	DL1BDB6	0.015 (0.03)
		Yellow	1	DL1BDB8	0.015 (0.03)
	120 Vac	White	1	DL1BDG1	0.015 (0.03)
		Green	1	DL1BDG3	0.015 (0.03)
		Red	1	DL1BDG4	0.015 (0.03)
		Orange	1	DL1BDG5	0.015 (0.03)
		Blue	1	DL1BDG6	0.015 (0.03)
		Yellow	1	DL1BDG8	0.015 (0.03)
Flashing LEDs BA 15d Base Fitting	24 Vdc	White	1	DL1BKB1	0.015 (0.03)
		Green	1	DL1BKB3	0.015 (0.03)
		Red	1	DL1BKB4	0.015 (0.03)
		Orange	1	DL1BKB5	0.015 (0.03)
		Blue	1	DL1BKB6	0.015 (0.03)
		Yellow	1	DL1BKB8	0.015 (0.03)
	120 Vac	White	1	DL1BKG1	0.015 (0.03)
		Green	1	DL1BKG3	0.015 (0.03)
		Red	1	DL1BKG4	0.015 (0.03)
		Orange	1	DL1BKG5	0.015 (0.03)
		Blue	1	DL1BKG6	0.015 (0.03)
		Yellow	1	DL1BKG8	0.015 (0.03)

| Description	Application	Catalog Number	Weight kg (lb)
Bulb Mounting and Removal Tool	—	XVPCX13	0.015 (0.03

Tower Lights and Beacons
70 mm Diameter
Harmony® XVB

Dimensions

Illuminated Beacons XVBL●●●
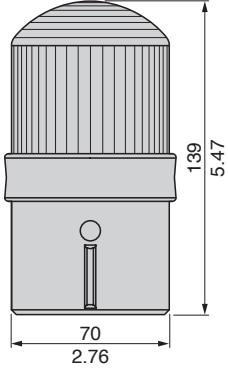
| For BA 15d Bulb or LED	With "Flash" Discharge Tube Unit
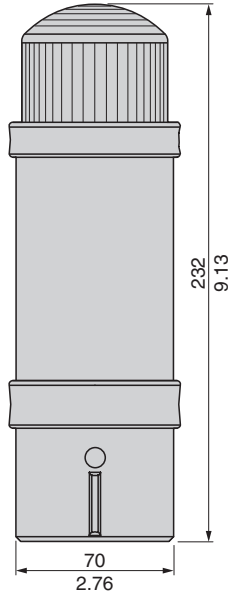
Tower Lights XVBC●●●

Without "Flash" Discharge Tube Unit
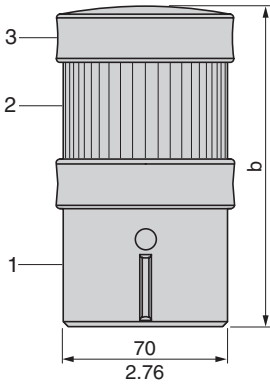
1 Base unit XVBC21 [1]
2 Illuminated or audible signaling unit XVBC●●●
3 Cover [1]

With "Flash" Discharge Tube Unit
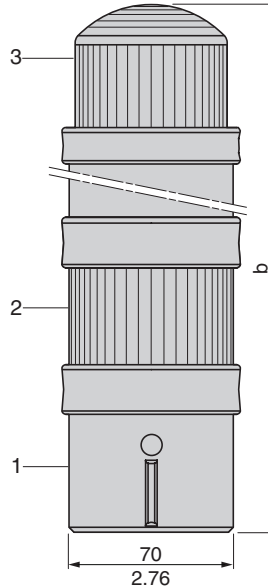
1 Base unit XVBC07
2 Illuminated or audible signaling unit XVBC●●●
3 "Flash" unit XVBC●●●

Number of Illuminated or Audible Signalling Units (no "flash")	b mm (in)
1	138 (5.43)
2	201 (7.91)
3	264 (10.39)
4	327 (12.87)
5	390 (15.35)

(1) Base unit XVBC21 is supplied with a cover.

Number of Illuminated or Audible Signalling Units other than "Flash" Tube	b mm (in)
1	295 (11.61)
2	358 (14.09)
3	421 (16.57)
4	484 (19.06)

Panel Cut-out for Direct Mounting
On Base Unit XVBC21, XVBC07, XVBC21A, or XVBC21B

Ø27
1.06

2xØ4.5 or M4
0.18

42
1.65

Dimensions $\frac{mm}{in.}$

Schneider Electric

Tower Lights and Beacons
70 mm Diameter
Harmony® XVB
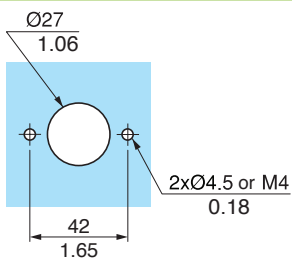
Dimensions

With Mounting Bases Comprising XVBZ0● (aluminum support tube glued into black plastic mounting plate)

Horizontal Support Drilling Plan for Mounting on Mounting Plate
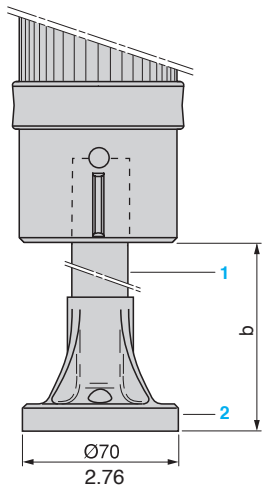
Ø27 / 1.06
4 xØ 5 or M4 / 0.20
54 / 2.13
54 / 2.13

Mounting base comprised of an XVBZ0● (Ø 25 mm support tube **1** glued into plastic mounting plate **2**)

Ø70 / 2.76

XVB	b
Z02/Z02A	80
Z03/Z03A	380
Z04/Z04A	780
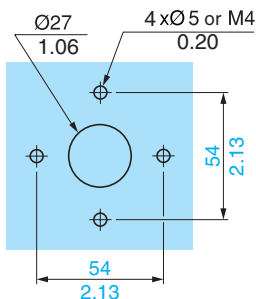
With Mounting Plate XVBC12 for use on Vertical Support

Direct Mounting on Base Unit

Mounting using Mounting Base XVBZ0● (aluminum support tube glued into black plastic mounting plate)

Drilling Plan for XVBC12
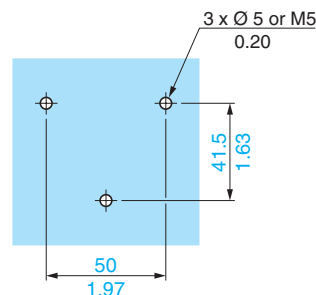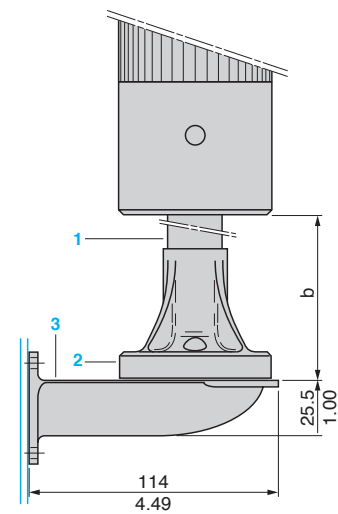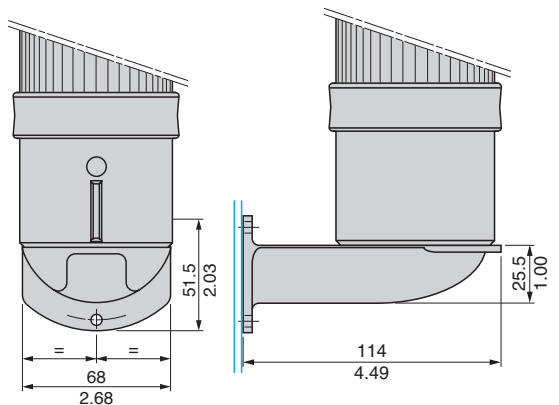
3 x Ø 5 or M5 / 0.20
41.5 / 1.63
50 / 1.97

Mounting base comprised of an XVBZ0● (Ø 25 mm support tube **1** glued into plastic mounting plate **2**) mounted on mounting plate XVBC12 for vertical support **3**

51.5 / 2.03
68 / 2.68
25.5 / 1.00
114 / 4.49
25.5 / 1.00
114 / 4.49

XVB	b mm (in)
Z02/Z02A	80 (3.15)
Z03/Z03A	380 (14.96)
Z04/Z04A	780 (30.71)

Installation

### Connections

XVBL   **XVBC**
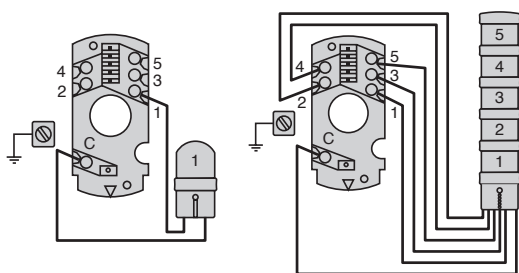
Adjustment of Audible Signal for Buzzers XVBC9●

Four microswitches located in the base of the buzzer:
□ 2 switches marked **1** and **2** used to select continuous or intermittent **mode** (Hz).
□ 2 switches marked **3** and **4** used to select the **power** (dB) of the audible signal.
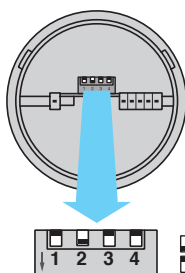
Position of Microswitches		Setting
1	**2**	**Mode**
1	1	2.8 kHz
1	0	2.8 kHz
0	1	5 Hz [1]
0	0	1 Hz
3	**4**	**Power**
1	1	90 dB [1]
0	1	85 dB
1	0	80 dB
0	0	70 dB

(1) Factory setting.

Dimensions $\frac{mm}{in.}$

Tower Lights and Beacons
50 mm Diameter
Harmony® XVP

3
XVPC09●●

1
XVPC21●●

2
XVPC6●●●

2
XVPC3●●

1
XVPC21●●

4
XVPC0●T

5
XVPC0●●

6
XVPC12●

Schneider Electric
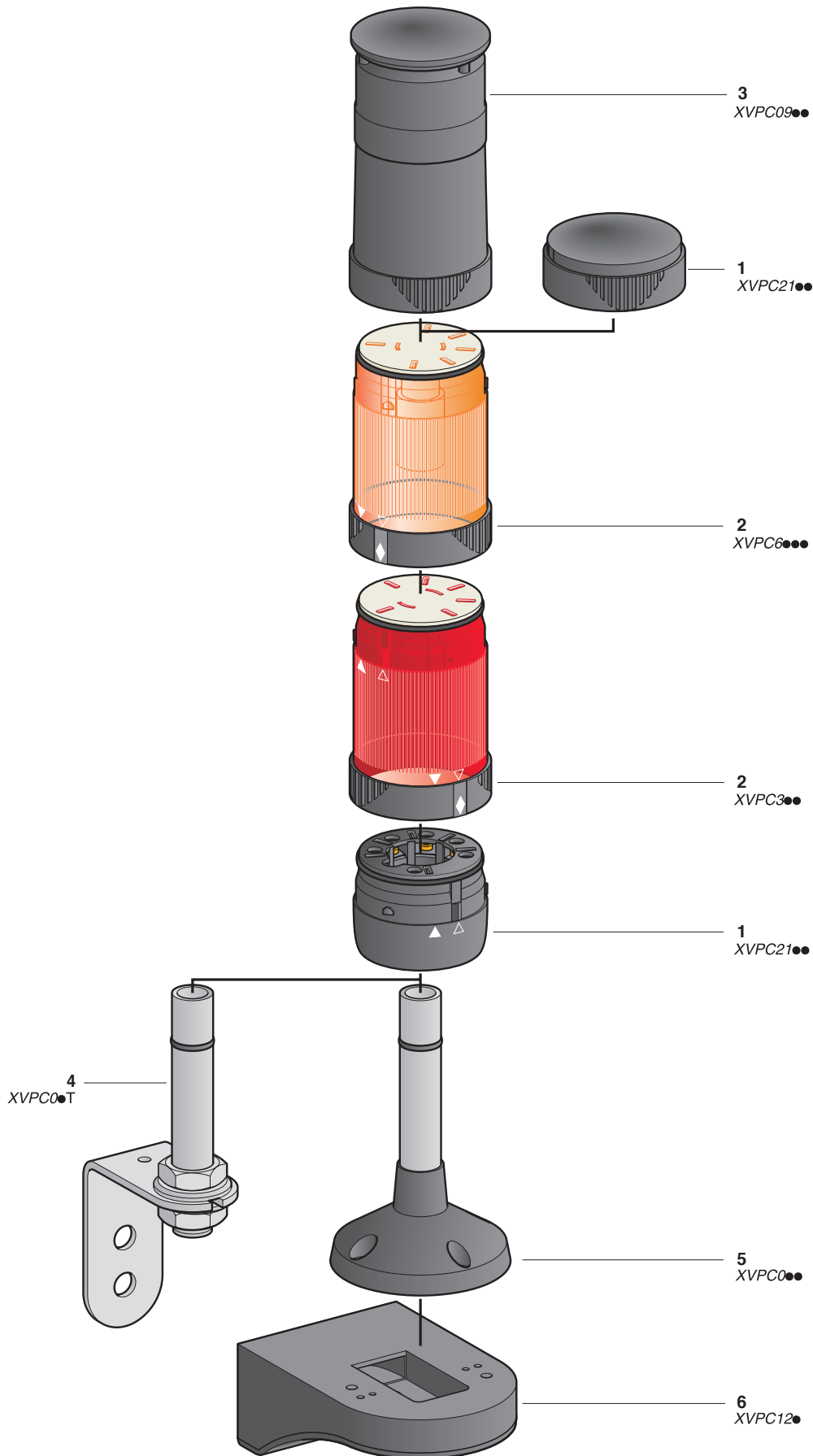
Tower Lights and Beacons
50 mm Diameter
Harmony® XVP
Tower Lights (customer assembly, up to 5 units)

XVP tower lights are visual or audible signaling units for indicating states or operation sequences of a machine or installation.
Their reduced diameter (50 mm (2.0 in)) 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.

XVP Tower Light
Customer assembled product

Variable composition assemblies of illuminated and audible units which are supplied as separate items (for assembly by user).
The bank includes:
1 a base unit with bottom cable entry, and cover for the top unit,
2 one to five illuminated units with steady, flashing, or "flash" light signaling (colors include: green, red, orange, blue, clear, or yellow).
3 one audible unit (always mounted at the top of the bank) + four 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 tower lights, several illuminated "flash" units can be mounted.
■ The flashing illuminated units are only available in an LED version and incorporate a BA 15d base mounted flashing LEDs.

Accessories

4 Threaded aluminum support tube with mounting bracket, for heights beneath the base unit of 77, 227, or 377 mm (3.03, 8.94, or 15.24 in).
5 Aluminum support tube with black or off-white plastic mounting base, for heights beneath the base unit of 89, 237, or 387 mm (3.50, 9.33, or 15.24 in), for direct mounting on the machine or on a vertical support **6**.

Installation
Mounting

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

Cabling

By means of a terminal block incorporated in the base unit. The screw and captive cable clamp terminals are designed to help protect against accidental contact with live parts. Cream colored base units are available for use with eyelet tags.

Specifications

Tower Lights and Beacons
50 mm Diameter
Harmony® XVP

Environment Specifications

Product Certifications	Standard version		CSA, CE marking, cULus
Conformity to Standards			EN/IEC 60947-5-1
Protective Treatment	Standard version Conforming to UTE C63-100		"TC"
Ambient Air Temperature	For storage	°C (°F)	- 40…+ 70 (- 40…+158)
	For operation	Illuminated units with steady light signaling	°C (°F)	- 25…+ 50 (- 13…+ 122) with 7 W incandescent bulb - 25…+ 50 (- 13…+ 122) with LED
		Illuminated "flash" units (discharge tube) Audible units	°C (°F)	- 25…+ 50 (- 13…+ 122)
Electric Shock Protection Conforming to IEC 61140	Mounted on support tube		Class I
	Mounted on base unit		Class II
Degree of Protection	Conforming to IEC 60529		- IP 65 for illuminated units - IP 43 for audible units
Material	Illuminated units		Polycarbonate and Polyamide
	Base unit and cover		Acrylic Butadiene-Styrene + Polycarbonate and Polyamide
	Support tube + mounting plate		Aluminum and Acrylic Butadiene-Styrene + Polycarbonate

Electrical Specifications

Rated insulation voltage (Ui)	Conforming to EN/IEC 60947-1		V	250
Voltage limits	Conforming to IEC 60947-5-1		V	0.85 to 1.10 Un (Un: nominal voltage)
Consumption	LED unit	Steady light signaling	mA	24 Vac/dc: < 80 / 120 Vac: < 30 / 230 Vac: < 30
		Flashing light signaling	mA	24 Vac/dc: < 40 / 120 Vac: < 15 / 230 Vac: < 15
	Illuminated "flash" unit (discharge tube)	On power-up	mA	24 Vac/dc: < 100 / 120 Vac: ⩽ 20 / 230 Vac: ⩽ 11
	Audible units		mA	24 Vdc: ⩽ 15 / 120 Vac: ⩽ 15 / 230 Vac: ⩽ 12
Rated Impulse Withstand Voltage	Conforming to EN/IEC 60947-1		kV	Uimp = 4
Light Source	Illuminated units with steady or flashing light signaling			LEDs: degree of pollution 2 / Incandescent bulbs with BA 15d base fitting, maximum power 7 W
Illuminating Power	Illuminated units with steady light signaling		cds	2.4 with clear lens unit (7 W incandescent bulb)
	Illuminated "flash" units (discharge tube)		cds	1.2 (24 V) with clear lens unit (0.3 J tube), 5 (120…230 V) with clear lens unit (0.6 J tube)
Audible Unit	Continuous or intermittent tone		dB	Adjustable: 85 ± 3 max., 55 ± 3 min. at 1 m
	Fundamental frequency		kHz	10 adjustable levels
Terminal Referencing	Common to all 5 units			1 terminal referenced -/C
	Depending on number of units			1 or 5 terminals referenced +/1 to +/5
Connection	Maximum clamping capacity on protected, ready-to-tighten, screw and captive cable clamp terminals		mm²	1 x 1.5 with cable end 2 x 16 AWG
Torque Value for Wiring Terminals			lb-in (N-m)	4.4 (0.5)
Frequency of Illuminated Units	Illuminated "flash" units (discharge tube)		Hz	0.6…2
	Flashing illuminated units		Hz	1
Service Life in Rapidly Ageing Environment	Illuminated "flash" units (discharge tube) Audible units		H	> 1000, continuous (climatic cycle - 25 °C (- 13 °F)…+ 50 °C (+ 122 °F))

18

Schneider Electric

Tower Lights and Beacons
50 mm Diameter
Harmony® XVP

XVPC3●

XVPC3●W

Lens Units with Steady or Flashing Light Signaling for BA 15d Bulb or LED

Description	Light Source (ordered separately)	Color	Catalog Number	Weight kg (lb)
With Black Clamping Ring	Incandescent bulb 7 W max. 250 V max. or LED	Green	**XVPC33**	0.100 (0.22)
		Red	**XVPC34**	0.100 (0.22)
		Orange	**XVPC35**	0.100 (0.22)
		Blue	**XVPC36**	0.100 (0.22)
		Clear	**XVPC37**	0.100 (0.22)
		Yellow	**XVPC38**	0.100 (0.22)
With Off-white Clamping Ring	Incandescent bulb 7 W max. 250 V max. or LED	Green	**XVPC33W**	0.100 (0.22)
		Red	**XVPC34W**	0.100 (0.22)
		Orange	**XVPC35W**	0.100 (0.22)
		Blue	**XVPC36W**	0.100 (0.22)
		Clear	**XVPC37W**	0.100 (0.22)
		Yellow	**XVPC38W**	0.100 (0.22)

BA 15d Bulbs and LEDs

Description	Specifications		Sold in lots of	Catalog Number	Weight kg (lb)
Incandescent Bulbs BA 15d Base Fitting	12 V	7 W	10	**DL1BEJ**	0.090 (0.20)
	24 V	6.5 W	10	**DL1BEB**	0.090 (0.20)
	120 V	7 W	10	**DL1BEG**	0.090 (0.20)
	230 V	7 W	10	**DL1BEM**	0.090 (0.20)
LEDs BA 15d Base Fitting **Protected LED**	24 Vac/dc	White	1	**DL1BDB1**	0.015 (0.03)
		Green	1	**DL1BDB3**	0.015 (0.03)
		Red	1	**DL1BDB4**	0.015 (0.03)
		Orange	1	**DL1BDB5**	0.015 (0.03)
		Blue	1	**DL1BDB6**	0.015 (0.03)
		Yellow	1	**DL1BDB8**	0.015 (0.03)
	120 Vac	White	1	**DL1BDG1**	0.015 (0.03)
		Green	1	**DL1BDG3**	0.015 (0.03)
		Red	1	**DL1BDG4**	0.015 (0.03)
		Orange	1	**DL1BDG5**	0.015 (0.03)
		Blue	1	**DL1BDG6**	0.015 (0.03)
		Yellow	1	**DL1BDG8**	0.015 (0.03)
Flashing LEDs BA 15d Base Fitting **Protected LED**	24 Vac/dc	White	1	**DL1BKB1**	0.015 (0.03)
		Green	1	**DL1BKB3**	0.015 (0.03)
		Red	1	**DL1BKB4**	0.015 (0.03)
		Orange	1	**DL1BKB5**	0.015 (0.03)
		Blue	1	**DL1BKB6**	0.015 (0.03)
		Yellow	1	**DL1BKB8**	0.015 (0.03)
	120 Vac	White	1	**DL1BKG1**	0.015 (0.03)
		Green	1	**DL1BKG3**	0.015 (0.03)
		Red	1	**DL1BKG4**	0.015 (0.03)
		Orange	1	**DL1BKG5**	0.015 (0.03)
		Blue	1	**DL1BKG6**	0.015 (0.03)
		Yellow	1	**DL1BKG8**	0.015 (0.03)

Tower Lights and Beacons
50 mm Diameter
Harmony® XVP

XVPC6●●

XVPC6●●W

Illuminated "Strobe" Units with Discharge Tube

Description	Voltage	Color	Catalog Number	Weight kg (lb)
With Black Clamping Ring	"Strobe" discharge tube (1 Joule) 24 Vac/dc	Green	**XVPC6B3**	0.120 (0.26)
		Red	**XVPC6B4**	0.120 (0.26)
		Orange	**XVPC6B5**	0.120 (0.26)
		Blue	**XVPC6B6**	0.120 (0.26)
		Clear	**XVPC6B7**	0.120 (0.26)
		Yellow	**XVPC6B8**	0.120 (0.26)
	"Strobe" discharge tube (0.6 Joules) 120 Vac	Green	**XVPC6G3**	0.115 (0.25)
		Red	**XVPC6G4**	0.115 (0.25)
		Orange	**XVPC6G5**	0.115 (0.25)
		Blue	**XVPC6G6**	0.115 (0.25)
		Clear	**XVPC6G7**	0.115 (0.25)
		Yellow	**XVPC6G8**	0.115 (0.25)
With Off-white Clamping Ring	"Strobe" discharge tube (1 Joule) 24 Vac/dc	Green	**XVPC6B3W**	0.120 (0.26)
		Red	**XVPC6B4W**	0.120 (0.26)
		Orange	**XVPC6B5W**	0.120 (0.26)
		Blue	**XVPC6B6W**	0.120 (0.26)
		Clear	**XVPC6B7W**	0.120 (0.26)
		Yellow	**XVPC6B8W**	0.120 (0.26)
	"Strobe" discharge tube (0.6 Joules) 120 Vac	Green	**XVPC6G3W**	0.115 (0.25)
		Red	**XVPC6G4W**	0.115 (0.25)
		Orange	**XVPC6G5W**	0.115 (0.25)
		Blue	**XVPC6G6W**	0.115 (0.25)
		Clear	**XVPC6G7W**	0.115 (0.25)
		Yellow	**XVPC6G8W**	0.115 (0.25)

XVPC09●

XVPC09●W

Audible Units

Description	Voltage	Color	Catalog Number	Weight kg (lb)
Buzzer, Adjustable 55…85 dB at 1 m	24 Vdc	Black	**XVPC09B**	0.153 (0.34)
	120 Vac	Black	**XVPC09G**	0.153 (0.34)
	230 Va	Black	**XVPC09M**	0.153 (0.34)
	24 Vdc	Off-white	**XVPC09BW**	0.153 (0.34)
	120 Vac	Off-white	**XVPC09GW**	0.153 (0.34)
	230 Vac	Off-white	**XVPC09MW**	0.153 (0.34)

Schneider Electric

Tower Lights and Beacons
50 mm Diameter
Harmony® XVP

XVPC21

XVPC21W●

XVPC0●●

XVPC0●T

XVPC12●

Base Units

Base Units for Direct or Tube Mounting

Description	Color	Catalog Number	Weight kg (lb)
Base Unit + Cover for bared wires or wires with cable end	Black	**XVPC21**	0.125 (0.28)
	Off-white	**XVPC21W**	0.125 (0.28)
Base Unit + Cover for eyelet tags	Off-white	**XVPC21WR**	0.125 (0.28)

Accessories

Description	Height Under Base Unit mm (in)	Catalog Number	Weight kg (lb)
Aluminum Support Tube with Black Plastic Mounting Base	89 (3.50)	**XVPC02**	0.112 (0.25)
	237 (9.33)	**XVPC03**	0.173 (0.38)
	387 (15.24)	**XVPC04**	0.253 (0.56)
Aluminum Support Tube with Off-white Plastic Mounting Base	89 (3.50)	**XVPC02W**	0.112 (0.25)
	237 (9.33)	**XVPC03W**	0.173 (0.38)
	387 (15.24)	**XVPC04W**	0.253 (0.56)
Aluminum Support Tube with L-shape bracket	89 (3.50)	**XVPC02T**	0.245 (0.54)
	237 (9.33)	**XVPC03T**	0.306 (0.67)
	387 (15.24)	**XVPC04T**	0.386 (0.85)
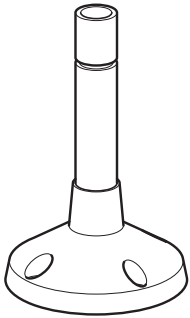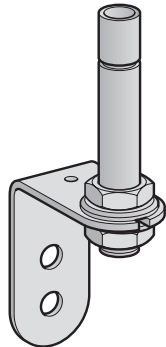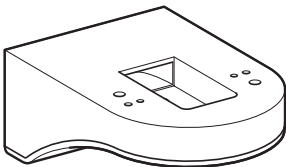
Description	Application	Catalog Number	Weight kg (lb)
Mounting Plate for use on Vertical Support, Black	For mounting XVPC0●● support tubes with plastic mounting base	**XVPC12**	0.083 (0.18)
Mounting Plate for use on Vertical Support, Off-white	For mounting XVPC0●● support tubes with plastic mounting base	**XVPC12W**	0.083 (0.18)
Bulb Mounting and Removal Tool	—	**XVPCX13**	0.015 (0.03)

Tower Lights and Beacons
50 mm Diameter
Harmony® XVP

Tower Lights XVPC●●●

Without Audible Unit
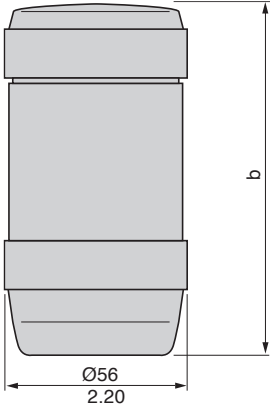
Number of Illuminated Units	b mm (in)
1	108 (4.25)
2	170 (6.69)
3	232 (9.13)
4	294 (11.57)
5	356 (14.01)

Ø56
2.20

Drilling Plan for Direct Mounting (on base unit XVPC21●●)

Ø20 0.79 Ø5 0.20
36 1.42
36 1.42

With Audible Unit

Number Illuminated Units	+ Audible	b mm (in)
0	+ 1	129 (5.08)
1	+ 1	194 (7.64)
2	+ 1	256 (10.08)
3	+ 1	318 (12.52)
4	+ 1	380 (14.96)

Ø56
2.20
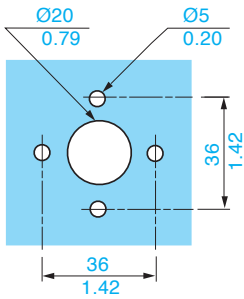
Dimensions $\frac{mm}{in.}$

Installation

Connections

Wire 5
Wire 4
Wire 3
Wire 2
Wire 1
Wire green/yellow
Wire 6
+/4 +/5 +/3 +/2 +/1 –/C
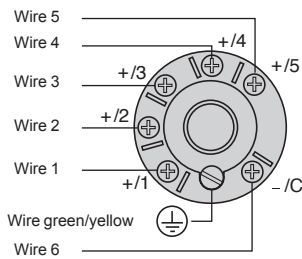
Adjustment of Audible Signal for XVPC09● Buzzers
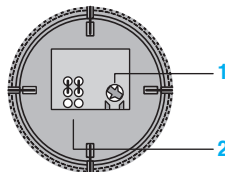
1 Volume adjustment potentiometer: 55…85 dB. Use either a cross headed or flat tipped screwdriver.

2 Adjustment of type of audible signal according to position of two links. Use flat-nose pliers.

3 Ten configurations are possible, see table below. Factory set on position **5**: continuous tone.

3	Position of links	Type of Audible Signal		Position of Links	Type of Audible Signal
1	5 ●—● 6 / ○ ○ / 1 ●—● 2	Hz 1000 / 800 / 0,25 0,25 s	6	5 ○ ○ 6 / ●—● / 1 ○ ○ 2	)))))
2	5 ○ ○ 6 / ● / 1 ●—● 2	Hz 1200 / 500 / 3 0,5 s	7	5 ●—● 6 / ○ ○ / 1 ○ ○ 2	Hz 1000 / 800 / 0,14 s
3	5 ●—● 6 / ○ ○ / 1 ○ ● 2	Hz 1200 / 500 / 1 s	8	5 ● ○ 6 / ● / 1 ● ○ 2	Hz 2900 / 2400 / 0,02 s
4	5 ○ ● 6 / ○ ● / 1 ●—● 2	Hz 544 / 440 / 0,4 0,1 s	9	5 ○ ○ 6 / ● ● / 1 ● ● 2	Hz 420 / 0,625 0,625 s
5	5 ● ● 6 / ● ● / 1 ○ ○ 2	Hz 1000 / s	10	5 ○ ○ 6 / ●—● / 1 ●—● 2	Hz 1200 / 500 / 0,25 / 3,75 s

Schneider Electric

Tower Lights and Beacons
50 mm Diameter
Harmony® XVP

Support Tube XVPC0●● with Plastic Mounting Base
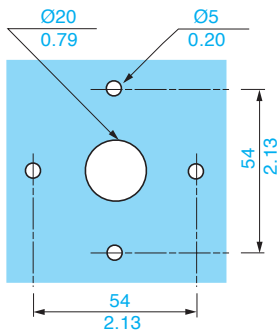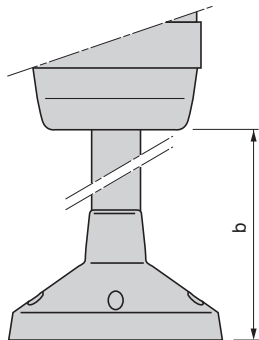
Height under base unit	b mm (in)
XVPC02●	89 (3.50)
XVPC03●	237 (9.33)
XVPC04●	387 (15.24)

Threaded Support Tube XVPC0●T with Metal Mounting Bracket
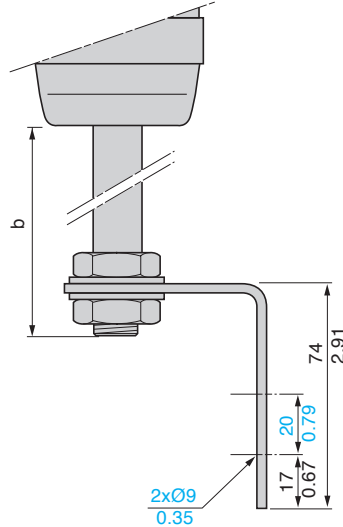
Height under base unit	b mm (in)
XVPC02T	77 (3.03)
XVPC03T	227 (8.94)
XVPC04T	377 (14.84)

Mounting Plate XVPC12● for use on a Vertical Support
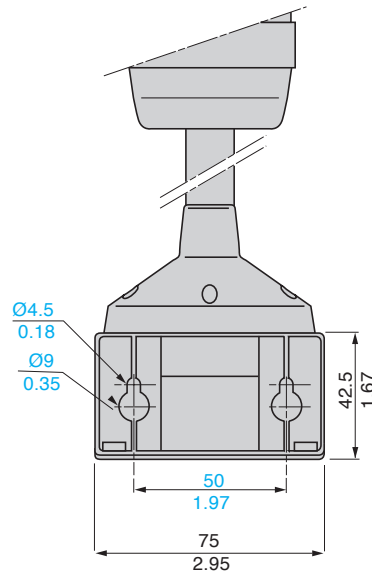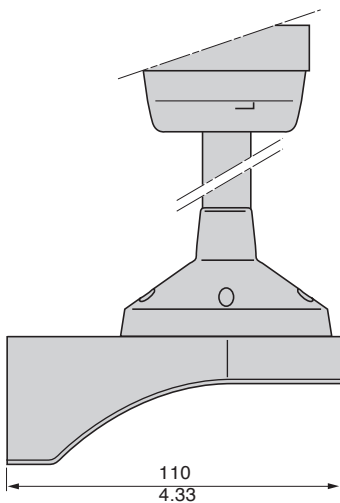
NOTE: *Support tube **XVPC0●●** with plastic mounting base must be used.*

Dimensions $\frac{mm}{in.}$

Tower Lights and Beacons
70 mm Diameter
Harmony® XVE
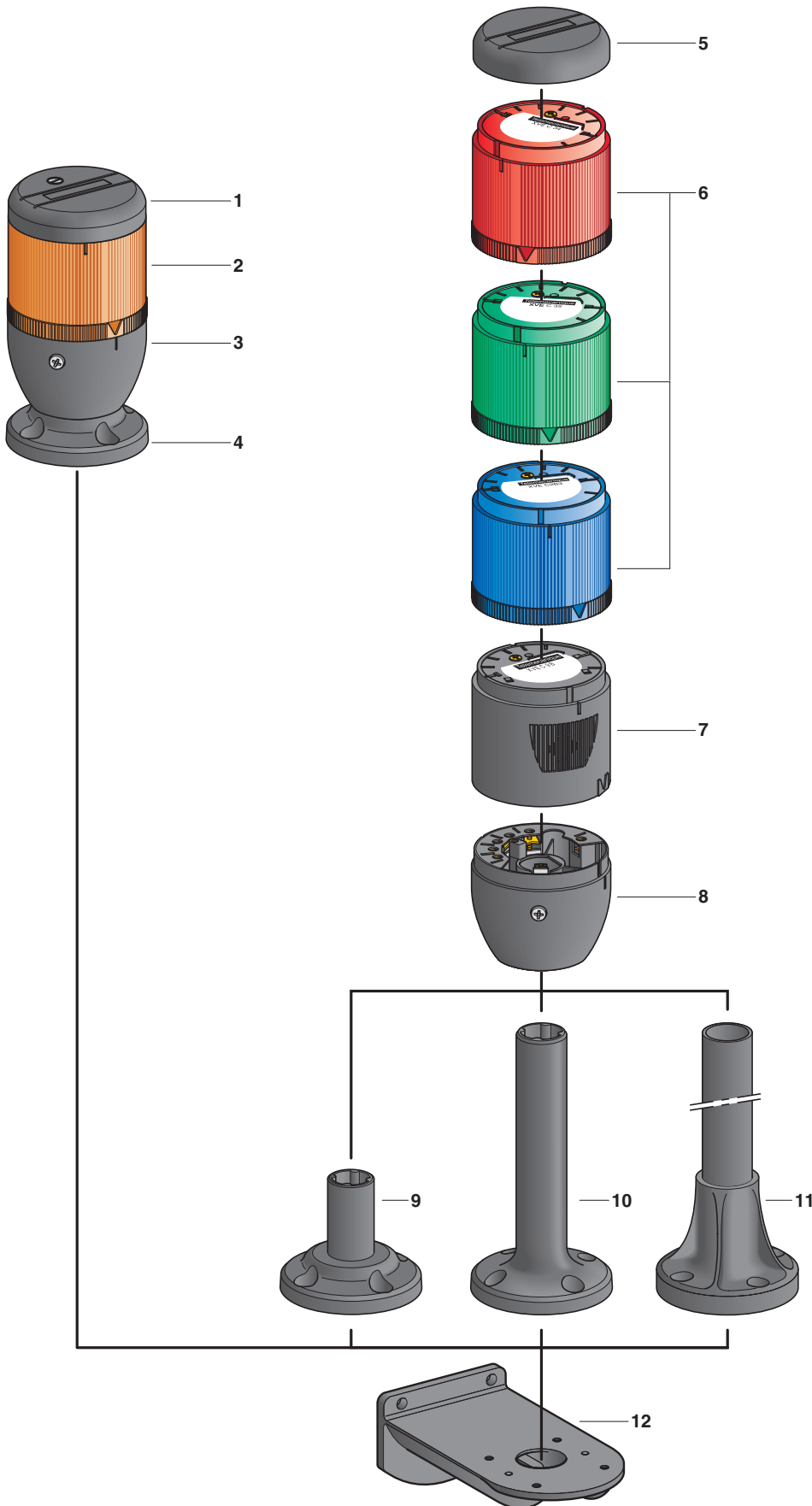
Description

Illuminated Beacon

The illuminated beacon is a complete product including:

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

Tower Light

The tower light is a customer assembled product using:

5 A cover.
6 1 to 5 colored lens units (green, red, orange, blue, or clear) with a choice of 3 types of signaling (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 mounting base, 20 mm (0.787 in) high.
10 A plastic mounting base, 100 mm (3.94 in) high.
11 An aluminum support tube glued into a plastic mounting plate, for heights beneath the base unit of 80 (3.15), 380 (14.96), or 780 (30.71) mm (in).

To be ordered separately:
12 Mounting plate for mounting on vertical support.

Tower Lights and Beacons
70 mm Diameter
Harmony® XVE

Introduction
XVE tower lights and beacons are designed for remote signaling of the status of a machine, equipment or specific application, either visually using illuminated units that are visible throughout 360° or audibly using an 85 dB buzzer.
The XVE provides efficient signaling (5 colors available), at medium range distances (30 m (100 ft)), in both indoor and outdoor environments.
The standard configuration of the tower lights and beacons is an IP 42 degree of protection, which is sufficient for the majority of indoor applications.
Both the IP 42 pre-configured beacons and tower lights can be upgraded to IP 54 by using a sealing kit [1].

Composition
■ The beacons are supplied complete and incorporate a single steady or "flash" light illuminated unit and a short mounting base. They are ready to use.
■ The tower lights must be assembled by the user and include: signaling units, mounted on a base unit and a mounting base. These various items can be selected from the catalog.
□ For a tower light, a maximum of 5 illuminated units or 4 illuminated units + 1 audible unit can be assembled.
□ The illuminated or audible units stack vertically and are easily fitted together. A screw secures their mounting. Electrical connections between each unit are made automatically as the units are mechanically assembled.
□ All signaling units are identical in size and their positioning is unrestricted.

Signaling Functions
Steady Light Signaling
Two types of light source are available for steady light signaling:
□ The incandescent BA 15d base fitting bulb, 5 W max. power, is recommended for infrequent usage and where no vibration or mechanical shock exists.
□ 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 color best suited to the color of the lens unit provides optimal luminosity.

Flashing Light Signaling
Flashing light signaling 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 Signaling
The light source is a 1 Joule discharge tube which delivers a powerful warning signal. It is available for the 5 colors.

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

Installation
Mounting
Fixed onto a support panel using a plastic monobloc mounting base or a mounting base which is comprised of an aluminum support tube glued into a plastic mounting plate.

Cabling
By means of terminal block incorporated in base unit.

Tower Lights and Beacons
70 mm Diameter
Harmony® XVE

Environment Specifications

Degree of Protection	Conforming to IEC 60529		IP 42 in vertical position, IP 40 for other positions IP 54 for reinforced protection version: for all mounting positions using mounting base XVEZ13, only in vertical position for other heights of mounting base
Product Certifications			UL, CSA, CCC
Approval			CE
Conformity to Standards			EN/IEC 60947-1, EN/IEC 60947-5-1
Ambient Air Temperature	For storage	**°C (°F)**	- 40…+70 (-40…158)
	For operation	**°C (°F)**	- 25…+55 (-13…131)
Electric Shock Protection Conforming to IEC 61140	Mounted on plastic support tube		Class I
	Mounted on aluminum support tube		Class I
Protective Treatment			Standard version: "TC"
Electronic Components Protection (LED and flash)	By integral fuse in series on the common	**A**	0.63 (24 Vdc)
		A	0.16 (120…240 Vac)

Electrical Specifications

Illuminated Units			With Bulb, not included (lens unit only)	With Integral LED, Steady Light Signaling	With Integral LED, Flashing Light Signaling	With "Flash" Discharge Tube, 1 Joule
Rated Insulation Voltage (Ui)	Conforming to EN/IEC 60947-1	**V**	250	250	250	250
Voltage Limits	Conforming to EN/IEC 60947-5-1	**V**	0.85…1.10 Un (Un: nominal voltage)			
Light Source			BA 15d base fitting bulb, maximum power 5 W (240 V max.)	LED	LED	"Flash" discharge tube, 1 Joule
Consumption	On 24 Vdc	**mA**	Depending on bulb used	< 25	< 30	< 145 on 24 Vac < 85 on 24 Vdc
	On 120 Vac	**mA**	Depending on bulb used	< 25	< 25	< 35
	On 230/240 Vac	**mA**	Depending on bulb used	< 25	< 25	< 25
Rated Impulse Withstand Voltage	Conforming to EN/IEC 60947-1	**kV**	Uimp = 4			
Illuminating Power	Average value for all colors	**cds/ m²**	640	800	800	—
Flashing Frequency	Nominal value	**Hz**	—	—	1	1

Audible Units			
Consumption	On 24 Vdc	**mA**	< 15
	On 120 Vac	**mA**	< 25
	On 230/240 Vac	**mA**	< 25
Power	Continuous tone	**dB**	85 at 1 m
	Fundamental frequency	**kHz**	2.6 for continuous tone

Connection of Illuminated and Audible Units			
Terminal Referencing			1 terminal referenced "C" common to all 5 units 5 terminals referenced 1 to 5
Connection	Maximum clamping capacity on protected, ready-to-tighten, screw and captive cable clamp terminals	**mm²**	1 x 1.5 with cable end 2 x 16 AWG
Torque Value for Wiring Terminals		**lb-in (N-m)**	4.4 (0.5)

Schneider Electric

Tower Lights and Beacons
70 mm Diameter
Harmony® XVE

XVEL3●●

XVEL2●●

XVEL6●●

Illuminated Beacons with Steady Light Signaling

Description	Light Source	Supply Voltage	Color of Lens Unit	Catalog Number	Weight kg (lb)
Complete Unit includes: - 1 screw mounting cover, - 1 illuminated unit, - 1 base unit, - 1 short mounting base	Bulb, not included, 5 W max.	240 Vdc max.	Green	**XVEL33**	0.245 (0.54)
			Red	**XVEL34**	0.245 (0.54)
			Orange	**XVEL35**	0.245 (0.54)
			Blue	**XVEL36**	0.245 (0.54)
			Clear	**XVEL37**	0.245 (0.54)
	Illuminated unit with integral LED	24 Vdc	Green	**XVEL2B3**	0.250 (0.55)
			Red	**XVEL2B4**	0.250 (0.55)
			Orange	**XVEL2B5**	0.250 (0.55)
			Blue	**XVEL2B6**	0.250 (0.55)
			Clear	**XVEL2B7**	0.250 (0.55)
		120 Vac	Green	**XVEL2G3**	0.250 (0.55)
			Red	**XVEL2G4**	0.250 (0.55)
			Orange	**XVEL2G5**	0.250 (0.55)
			Blue	**XVEL2G6**	0.250 (0.55)
			Clear	**XVEL2G7**	0.250 (0.55)

Illuminated Beacons with "Flash" Light Signaling

Description	Light source	Supply voltage	Color of Lens Unit	Catalog Number	Weight kg (lb)
Complete Unit includes: - 1 screw mounting cover, - 1 illuminated unit, - 1 base unit, - 1 short mounting base	Illuminated unit with 1 Joule "flash" discharge tube	24 Vdc	Green	**XVEL6B3**	0.270 (0.60)
			Red	**XVEL6B4**	0.270 (0.60)
			Orange	**XVEL6B5**	0.270 (0.60)
			Blue	**XVEL6B6**	0.270 (0.60)
			Clear	**XVEL6B7**	0.270 (0.60)
		120 Vac	Green	**XVEL6G3**	0.270 (0.60)
			Red	**XVEL6G4**	0.270 (0.60)
			Orange	**XVEL6G5**	0.270 (0.60)
			Blue	**XVEL6G6**	0.270 (0.60)
			Clear	**XVEL6G7**	0.270 (0.60)

Tower Lights and Beacons
70 mm Diameter
Harmony® XVE

XVEC3●

XVEC2●●●

XVEC5●●●

XVEC6●●●

XVEC9●

Lens Units with Steady Light Signaling

Description	Light Source	Supply Voltage	Color of Lens Unit	Catalog Number	Weight kg (lb)
Lens Units Only for BA 15d Base Fitting Bulb	Bulb, not included, 5 W max.	240 Vdc max.	Green	**XVEC33**	0.072 (0.16)
			Red	**XVEC34**	0.072 (0.16)
			Orange	**XVEC35**	0.072 (0.16)
			Blue	**XVEC36**	0.072 (0.16)
			Clear	**XVEC37**	0.072 (0.16)
Illuminated Units	Integral LED	24 Vdc	Green	**XVEC2B3**	0.077 (0.17)
			Red	**XVEC2B4**	0.077 (0.17)
			Orange	**XVEC2B5**	0.077 (0.17)
			Blue	**XVEC2B6**	0.077 (0.17)
			Clear	**XVEC2B7**	0.077 (0.17)
		120 Vac	Green	**XVEC2G3**	0.077 (0.17)
			Red	**XVEC2G4**	0.077 (0.17)
			Orange	**XVEC2G5**	0.077 (0.17)
			Blue	**XVEC2G6**	0.077 (0.17)
			Clear	**XVEC2G7**	0.077 (0.17)

Lens Units with Flashing Light Signaling

Description	Light Source	Supply Voltage	Color of Lens Unit	Catalog Number	Weight kg (lb)
Illuminated Units	Integral LED	24 Vdc	Green	**XVEC5B3**	0.077 (0.17)
			Red	**XVEC5B4**	0.077 (0.17)
			Orange	**XVEC5B5**	0.077 (0.17)
			Blue	**XVEC5B6**	0.077 (0.17)
			Clear	**XVEC5B7**	0.077 (0.17)
		120 Vac	Green	**XVEC5G3**	0.077 (0.17)
			Red	**XVEC5G4**	0.077 (0.17)
			Orange	**XVEC5G5**	0.077 (0.17)
			Blue	**XVEC5G6**	0.077 (0.17)
			Clear	**XVEC5G7**	0.077 (0.17)

Lens Units with "Flash" Light Signaling

Description	Light Source	Supply Voltage	Color of Lens Unit	Catalog Number	Weight kg (lb)
Illuminated Units	"Flash" discharge tube, 1 Joule	24 Vdc	Green	**XVEC6B3**	0.094 (0.21)
			Red	**XVEC6B4**	0.094 (0.21)
			Orange	**XVEC6B5**	0.094 (0.21)
			Blue	**XVEC6B6**	0.094 (0.21)
			Clear	**XVEC6B7**	0.094 (0.21)
		120 Vac	Green	**XVEC6G3**	0.094 (0.21)
			Red	**XVEC6G4**	0.094 (0.21)
			Orange	**XVEC6G5**	0.094 (0.21)
			Blue	**XVEC6G6**	0.094 (0.21)
			Clear	**XVEC6G7**	0.094 (0.21)

Audible Units

Description	Power	Supply Voltage	Catalog Number	Weight kg (lb)
Buzzer, Single Tone	85 dB at 1 meter	24 Vdc	**XVEC9B**	0.090 (0.20)
		120 Vac	**XVEC9G**	0.090 (0.20)
		230 V/240 Vac	**XVEC9M**	0.090 (0.20)

Tower Lights and Beacons
70 mm Diameter
Harmony® XVE

XVEC21

XVEC21P

XVEZ13 *XVDC02*

XVBZ02 *XVBZ03/Z04*

XVBZ01 *XVBC12*

XVEZ081

XVEZ082

XVEZ083

DL1BE●S

Base Units and Covers

Usage	Composition	Catalog Number	Weight kg (lb)
IP42	Base unit and cover	XVEC21	0.110 (0.24)
IP54	Base unit with seal + screw mounting cover + kit comprising 5 seals for lens units and buzzer + 1 seal for mounting base XVEZ13	XVEC21P	0.120 (0.26)

Mounting Components

Description	Height Under Base Unit mm (in)	Color	Catalog Number	Weight kg (lb)
Plastic Mounting Bases	20 (0.79)	Black	XVEZ13	0.040 (0.09)
	100 (3.94)	Black	XVDC02	0.056 (0.12)
Mounting Bases (Aluminum Support Tube Glued into a Plastic Mounting Plate)	80 (3.15)	Black aluminum	XVBZ02	0.110 (0.24)
		Aluminum	XVBZ02A	0.110 (0.24)
	380 (14.96)	Black aluminum	XVBZ03	0.200 (0.44)
		Aluminum	XVBZ03A	0.200 (0.44)
	780 (30.71)	Black aluminum	XVBZ04	0.325 (0.72)
		Aluminum	XVBZ04A	0.325 (0.72)

Description	For	Material	Catalog Number	Weight kg (lb)
Mounting Plate	Ø 25 mm (0.98 in) aluminum support tube (to be glued into mounting plate)	Plastic	XVBZ01	0.050 (0.11)
Mounting Plate for use on Vertical Support	Mounting beacons and indicator banks (requires a mounting base)	Zamak	XVBC12	0.380 (0.84)

Accessories

Description	For use with	Composition	Catalog Number	Weight kg (lb)
Cover	Tower lights and beacons	—	XVEZ081	0.010 (0.02)
IP 54 Sealing Kit	Tower lights	5 toric seals for lens units + base unit seal + 1 mounting plate seal + 1 seal for mounting base XVEZ13 + screw mounting cover	XVEZ082	0.015 (0.03)
	Beacons	1 lens unit seal + 1 base unit seal + 2 mounting base seals	XVEZ083	0.005 (0.01)

Description	Electrical Specifications	Sold in lots of	Catalog Number	Weight kg (lb)
Incandescent Bulbs with BA 15d Base for XVEL3● and XVE C3●	5 W 24 Vdc	10	DL1BEBS	0.100 (0.22)
	5 W 120 Vdc	10	DL1BEGS	0.100 (0.22)
	5 W 230 Vdc	10	DL1BEMS	0.100 (0.22)

Description	Application	Catalog Number	Weight kg (lb)
Bulb Mounting and Removal Tool		XVPCX13	0.015 (0.03)

Tower Lights and Beacons
70 mm Diameter
Harmony® XVE

Illuminated Beacons XVEL●●●

129
5.08

Ø70
2.76

Ø54
2.13

4xØ5.
2.1
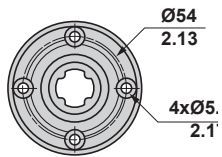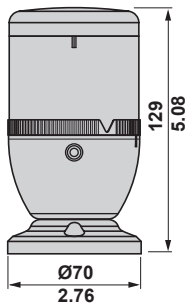
Panel Cut-out for Mounting Directly on Mounting Base

Ø27
1.06

4xØ5.5
0.22

54
2.13

54
2.13

Mounting on Mounting Plate XVBC12

25.5
1.00

51.5
2.03

114
4.49

68
2.68
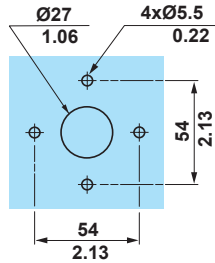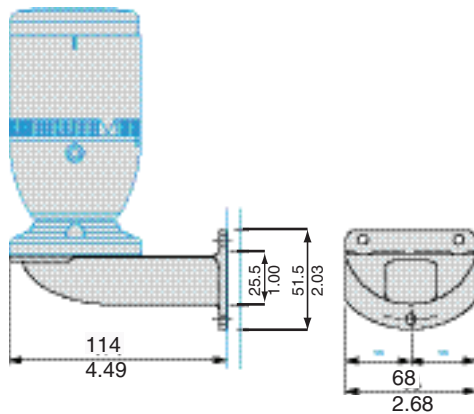
Vertical Support Panel Drillings for Mounting Plate XVBC12

3xØ5 or M5
.20 or M5

41.5
1.63

50
1.97

Wiring Scheme

1
2
3
4
5
C

Dimensions $\frac{mm}{in.}$

Schneider Electric

Tower Lights and Beacons
70 mm Diameter
Harmony® XVE

Tower Lights XVEC●●●

1 Cover XVEZ081 or
cover XVEC21/C21P (with base unit),
2 Illuminated units XVEC●● and/or
audible unit XVEC9●,
3 Base unit XVEC21/C21P,
4 Mounting bases (see below).

Height of Indicator Bank

Number of Units (ref. 2)	b (mm (in))
1	111 (4.37)
2	163 (6.42)
3	215 (8.46)
4	267 (10.51)
5	319 (12.56)

Mounting Bases (height under base unit)

XVEZ13

XVDC02

XVB0●●
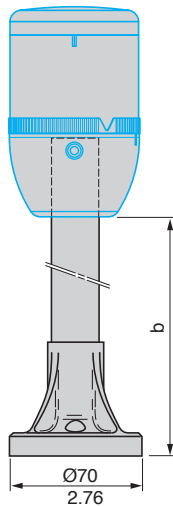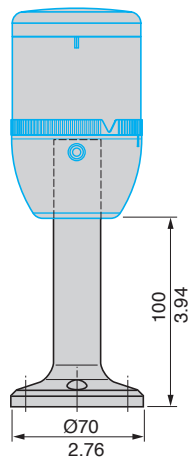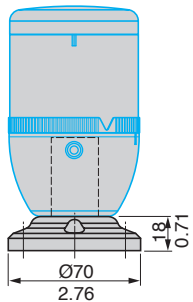
Drilling Plan
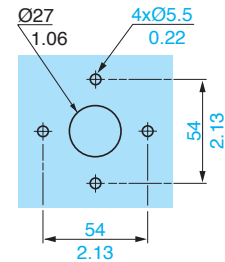
Height Under Base Unit

Mounting Base	b (mm (in))
XVBZ02/Z02A	80 (3.15)
XVBZ03/Z03A	380 (14.31)
XVBZ04/Z04A	780 (30.71)

Mounting Plate XVBC12
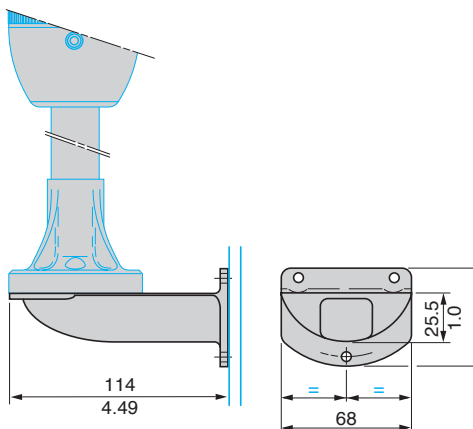
Drilling Plan for Mounting Plate XVBC12
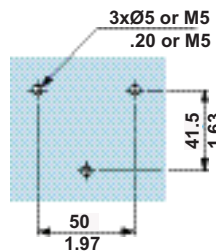
Wiring Scheme
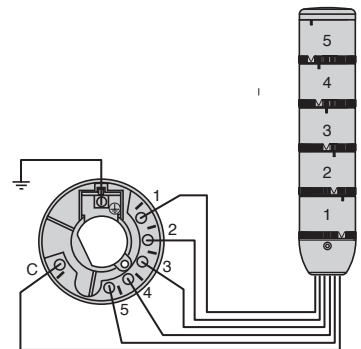
Dimensions $\frac{mm}{in.}$

Tower Lights and Beacons
Preassembled Tower Lights
Harmony® XVC
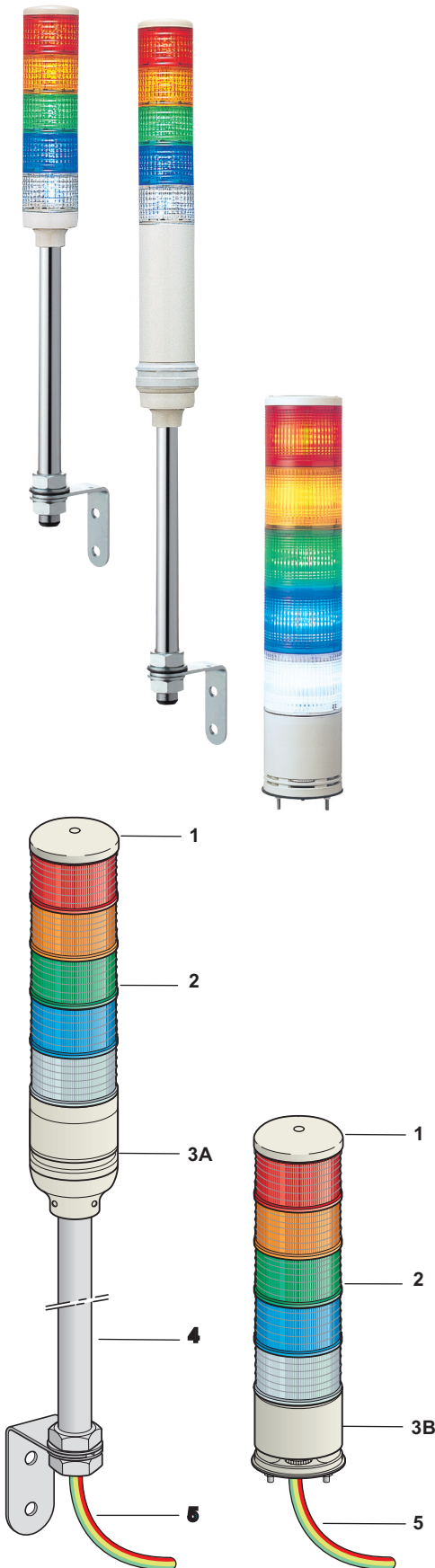
Introduction

Harmony XVC tower lights are designed for long-distance indication of the operating states or sequences of a machine with illuminated signaling units or adjustable audible buzzer.

■ Available in 40, 60 and 100 mm diameter sizes:
□ XVC4 (40 mm) tower lights are used in the food-processing and medical sectors.
□ XVC6 (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.
□ XVC1 (100 mm) tower lights are particularly designed for industrial applications and machine-tools.

■ The entire range provides an IP 54 degree of protection.

■ XVC tower lights are supplied:
□ with 1, 2, 3, 4, or 5 illuminated signaling units
□ with or without a buzzer
□ preassembled and pre-wired
□ with a support tube and bracket for mounting on a vertical support or 3 screws for direct mounting on a horizontal surface

Illuminated signaling

Several lens unit colors are available:
- 5 colors (red, orange, green, blue, and clear)
- Lens colors are always placed in that order, from top to bottom.
- The light source consists of super-bright LEDs for optimum luminosity.

Audible signaling

The tower light may be supplied with an audible, signaling unit buzzer located in the base of the unit.

For 60 mm or 100 mm tower lights equipped with a buzzer, the type of signal (continuous or intermittent) can be reversed by modifying the cable connections.

A potentiometer is also present in the base for adjusting the audible signaling volume, up to a value of:
- 85 decibels for XVC1●●K and XVC1●●SK (equipped with a buzzer),

Cabling

XVC tower lights include a color coded, pre-wiring harness with a wiring diagram label.
XVC tower lights are preassembled and pre-wired at the factory and cannot be modified because the wires are soldered.

Description

The XVC tower lights assembly is comprised of:
1   A cover.
2   1, 2, 3, 4, or 5 colored illuminated signaling units (red, orange, green, blue, or clear). Each illuminated unit is equipped with a super-bright LED.
3   A base mounted on a support tube **3A**, or a base fitted with three screws **3B** for direct mounting on a horizontal surface.
4   A chromium plated steel support tube mounted on a bracket, for mounting on a vertical support.
5   A color-coded, pre-wiring harness.

Schneider Electric

Tower Lights and Beacons
Preassembled Tower Lights
40 and 60 mm Diameter
Harmony® XVC

Environment Specifications

			XVC4B● XVC4B●5S XVC4B●K	XVC6B● XVC6B●5S XVC6B●K XVC6B●5SK	XVC4M● XVC4M●5S	XVC6M● XVC6M●5S XVC6M●K XVC6M●5SK
Product Certifications			CE, UL recognized EI64353, CCN NKCR, CSA LR44087 CLASS 311-03, RoHS			
Conformity to Standards			EN/IEC 61000-6-2 EN/IEC 61000-6-3 UL508, CSA 22.2 No. 14	EN/IEC 61000-6-2 EN/IEC 61000-6-3 EN/IEC 61000-6-4 UL508, CSA 22.2 No. 14	EN/IEC 60947-1 EN/IEC 60947-5-1 UL508, CSA 22.2 No.14	
Protective Treatment	Conforming to UTE C63-100		"TC"			
Ambient Air Temperature	Storage	°C (°F)	- 35…+ 70 (- 31…+ 158)			
	Operation	°C (°F)	- 10…+ 50 (- 14…+ 122)			
Electric Shock Protection conforming to EN/IEC 61140	Mounted on support tube		Class I			
	Mounted on base		Class II		Class I	
Degree of Protection conforming to EN/IEC 60529	Mounted on support tube		IP 54 (Flat surface installation)			
			IP 23 (Vertical surface installation)			
	Mounted on base		IP 54 (Flat surface installation)			
Material	Top cover		PBT + ABS (UL94HB)		PBT + ABS (UL94V-0)	
	Illuminated lens unit		PC (polycarbonate)			
	Base		ABS or PBT + ABS			
	Support tube		SGP steel (chromium-plated)	STK steel (chromium-plated)	SGP steel (chromium-plated)	STK steel (chromium-plated)
	L-shape mounting bracket		SPCC (Cr3 + chromium-plated)			
Light source			LED			

Electrical Specifications

				XVC4B● / XVC6B●		XVC4M● / XVC6M●	
Rated Voltage			V	24 Vac/dc		100 - 240 Vac/dc	
Rated Impulse withstand Voltage			kV	0.8		4	
Consumption - at rated voltage (for XVC4B● / XVC6B●) - at 100 Vac (for XVC4M● / XVC6M●)	Steady light	1 unit	mA	25		30	35
		2 units	mA	50		45	50
		3 units	mA	75		60	
		4 units	mA	100		75	
		5 units	mA	125		90	
	Steady/flashing light with buzzer	1 unit	mA	65		50	60
		2 units	mA	90		65	75
		3 units	mA	115		80	85
		4 units	mA	140		95	100
		5 units	mA	165		110	115
Audible Units	Sound level (continuous or intermittant tone) at 1 m		dB	70...85			
	Fundamental frequency		kHz	2.23			
Flashing Frequency of Illuminated Units			Hz	1			
Connection	Cable diameter		mm²	Wire c.s.a. 0.33 mm² / AWG 22 *(1)*		Wire c.s.a. 0.33 mm² / AWG 22 *(1)* Wire c.s.a. 0.83 mm² / SPT-1 AWG 18 *(1)*	
	Cable length		mm (in)	600 (23.62) for **XVC4B●** 900 (35.43) for **XVC4B●5S** 500 (19.68) for **XVC4B●K**	600 (23.62) for **XVC6B●** 550 (21.65) for **XVC6B●5S** 850 (33.46) for **XVC6B●K** and **XVC6B●5SK**	450 (17.71)	**XVC6M●** : - 450 (17.71) signal - 550 (21.65) power - 550 (21.65) ground **XVC6M●5S** : - 450 (17.71) signal - 450 (17.71) power - 450 (17.71) ground **XVC6M●K** and **XVC6M●5SK** : - 750 (29.53) signal - 850 (33.46) power - 850 (33.46) ground

(1) AWG : American Wire Gauge.

Tower Lights and Beacons
Preassembled Tower Lights
100 mm Diameter
Harmony® XVC

Environment Specifications

Type of Tower Light			XVC1B●K XVC1B●SK	XVC1M●K XVC1M●SK
Product Certifications			CE, UL recognized EI64353, CCN NKCR, CSA LR44087 CLASS 311-03, RoHS	
Conformity to Standards			EN/IEC 61000-6-2 EN/ IEC 61000-6-3 EN/IEC 61000-6-4 UL508 CSA 22.2 No. 14	EN/IEC 60947-1 EN/IEC 60947-5-1 UL508 CSA 22.2 No. 14
Protective Treatment	Conforming to UTE C63-100		"TC"	
Ambient Air Temperature	Storage	°C (°F)	- 35…+ 70 (- 31…+ 158)	
	Operation	°C (°F)	- 30…+ 50 (- 22…+ 122)	
Electric Shock Protection conforming to EN/IEC 61140	Mounted on support tube		—	
	Mounted on base		Class II	Class I
Degree of Protection conforming to EN/IEC 60529	Mounted on support tube		—	
	Mounted on base		IP 54 (Flat surface installation)	
Material	Top cover		PBT + ABS (UL94-V0)	
	Illuminated lens unit		PC (polycarbonate)	
	Base		PBT + ABS (UL94-V0)	
	Support tube		—	
	L mounting bracket		—	
Light Source			LED	

Electrical Specifications

Rated Voltage			V	24 Vdc	100 - 240 Vac
Rated Impulse withstand Voltage			kV	0.8	4
Consumption - at rated voltage (for XVC1B●) - at 100 Vac (for XVC1M●)	Steady/flashing light	1 unit	mA	100	75
		2 units	mA	200	120
		3 units	mA	300	160
		4 units	mA	400	215
		5 units	mA	500	270
	Steady/flashing light with buzzer	1 unit	mA	150	85
		2 units	mA	250	130
		3 units	mA	350	170
		4 units	mA	450	230
		5 units	mA	550	280
Audible Units	Sound level at 1 m		dB	60...85 (continuous or intermittent tone)	
Flashing Frequency of Illuminated Units			Hz	0.7...3	
Connection	Cable diameter			Wire c.s.a.: 0.33 mm² / 22 AWG *(1)* Wire c.s.a.: 0.83 mm² / 18 AWG *(1)*	
	Cable length		mm (in)	500 (19.68)	

(1) AWG: American Wire Gauge.

Schneider Electric

Tower Lights and Beacons
Preassembled Tower Lights
40 mm Diameter
Harmony® XVC

XVC4B5   *XVC4B55S*

Complete, Pre-wired Tower Lights 40 mm Diameter

Description	Light Source (included)	Voltage	Signaling Colors (1)		Catalog Number	Weight kg (lb)
			Steady	**Flashing (2)**		
For Support Tube Mounting, 17 mm						
Without Buzzer	LED for steady light only	24 Vac/dc	R	—	**XVC4B1**	0.500 (1.10)
			R, O	—	**XVC4B2**	0.520 (1.15)
			R, O, G	—	**XVC4B3**	0.540 (1.19)
			R, O, G, B	—	**XVC4B4**	0.560 (1.23)
			R, O, G, B, C	—	**XVC4B5**	0.580 (1.28)
		100-240 Vac	R	—	**XVC4M1**	0.720 (1.59)
			R, O	—	**XVC4M2**	0.750 (1.65)
			R, O, G	—	**XVC4M3**	0.780 (1.72)
			R, O, G, B	—	**XVC4M4**	0.810 (1.79)
			R, O, G, B, C	—	**XVC4M5**	0.840 (1.85)
With Buzzer + Flashing Light	LED for steady or flashing light	24 Vac/dc	R	R	**XVC4B15S**	0.600 (1.32)
			R, O	R, O	**XVC4B25S**	0.620 (1.37)
			R, O, G	R, O, G	**XVC4B35S**	0.640 (1.41)
			R, O, G, B	R, O, G, B	**XVC4B45S**	0.660 (1.46)
			R, O, G, B, C	R, O, G, B, C	**XVC4B55S**	0.680 (1.50)
		100-240 Vac	R	R	**XVC4M15S**	0.740 (1.63)
			R, O	R, O	**XVC4M25S**	0.770 (1.70)
			R, O, G	R, O, G	**XVC4M35S**	0.800 (1.76)
			R, O, G, B	R, O, G, B	**XVC4M45S**	0.830 (1.83)
			R, O, G, B, C	R, O, G, B, C	**XVC4M55S**	0.860 (1.90)
For Base Mounting						
Without Buzzer	LED for steady light only	24 Vac/dc	R	—	**XVC4B1K**	0.100 (0.22)
			R, O	—	**XVC4B2K**	0.120 (0.26)
			R, O, G	—	**XVC4B3K**	0.140 (0.31)
			R, O, G, B	—	**XVC4B4K**	0.160 (0.35)
			R, O, G, B, C	—	**XVC4B5K**	0.180 (0.40)

Accessories for Support Tube Mounting

| Description	Diameter mm (in)	Minimum Height to be Added mm (in)	Catalog Number	Weight kg (lb)
Die-cast Metal Mounting Base (3)	90	32	**XVCZ11**	0.100 (0.22)
Plastic Mounting Base (4)	84	24.5	**XVCZ01**	0.060 (0.13)
Wall Mounting Bracket (5)	—	82	**XVCZ31**	0.130 (0.29)

(1) Signaling colors: R: Red, O: Orange, G: Green, B: Blue, C: Clear. The colors 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.
(3) For use with XVC4B● and XVC4B●5S
(4) For use with XVC4B● and XVC4B●5S (customer must discard the support tube)
(5) For use with XVC4B● and XVC4B●5S

XVCZ11

XVCZ01

XVCZ31

Tower Lights and Beacons
Preassembled Tower Lights
60 mm Diameter
Harmony® XVC

XVC6B5

XVC6M5

XVC6B5K

XVC6M5K

XVCZ02

XVCZ12

XVCZ32

Complete, Pre-wired Tower Lights 60 mm Diameter

Description	Light Source (included)	Voltage	Signaling Colors (1)		Catalog Number	Weight kg (lb)
			Steady	Flashing (2)		
For Support Tube Mounting, 22 mm						
Without Buzzer	LED for steady light only	24 Vac/dc	R	—	**XVC6B1**	0.700 (1.54)
			R, O	—	**XVC6B2**	0.740 (1.63)
			R, O, G	—	**XVC6B3**	0.780 (1.72)
			R, O, G, B	—	**XVC6B4**	0.820 (1.81)
			R, O, G, B, C	—	**XVC6B5**	0.860 (1.90)
		100-240 Vac	R	—	**XVC6M1**	0.960 (2.12)
			R, O	—	**XVC6M2**	1.020 (2.25)
			R, O, G	—	**XVC6M3**	1.070 (2.36)
			R, O, G, B	—	**XVC6M4**	1.120 (2.47)
			R, O, G, B, C	—	**XVC6M5**	1.180 (2.60)
With Buzzer + Flashing Light	LED for steady or flashing light	24 Vac/dc	R	R	**XVC6B15S**	0.900 (1.98)
			R, O	R, O	**XVC6B25S**	0.940 (2.07)
			R, O, G	R, O, G	**XVC6B35S**	0.980 (2.16)
			R, O, G, B	R, O, G, B	**XVC6B45S**	1.020 (2.25)
			R, O, G, B, C	R, O, G, B, C	**XVC6B55S**	1.060 (2.34)
		100-240 Vac	R	R	**XVC6M15S**	1.010 (2.23)
			R, O	R, O	**XVC6M25S**	1.070 (2.36)
			R, O, G	R, O, G	**XVC6M35S**	1.120 (2.47)
			R, O, G, B	R, O, G, B	**XVC6M45S**	1.170 (2.58)
			R, O, G, B, C	R, O, G, B, C	**XVC6M55S**	1.230 (2.71)
For Base Mounting						
Without Buzzer	LED for steady light only	24 Vac/dc	R	—	**XVC6B1K**	0.200 (0.44)
			R, O	—	**XVC6B2K**	0.250 (0.55)
			R, O, G	—	**XVC6B3K**	0.300 (0.66)
			R, O, G, B	—	**XVC6B4K**	0.350 (0.77)
			R, O, G, B, C	—	**XVC6B5K**	0.400 (0.88)
		100-240 Vac	R	—	**XVC6M1K**	0.440 (0.97)
			R, O	—	**XVC6M2K**	0.500 (1.10)
			R, O, G	—	**XVC6M3K**	0.550 (1.21)
			R, O, G, B	—	**XVC6M4K**	0.600 (1.32)
			R, O, G, B, C	—	**XVC6M5K**	0.660 (1.46)
With Buzzer + Flashing Light	LED for steady or flashing light	24 Vac/dc	R	R	**XVC6B15SK**	0.200 (0.44)
			R, O	R, O	**XVC6B25SK**	0.250 (0.55)
			R, O, G	R, O, G	**XVC6B35SK**	0.300 (0.66)
			R, O, G, B	R, O, G, B	**XVC6B45SK**	0.350 (0.77)
			R, O, G, B, C	R, O, G, B, C	**XVC6B55SK**	0.400 (0.88)
		100-240 Vac	R	R	**XVC6M15SK**	0.490 (1.08)
			R, O	R, O	**XVC6M25SK**	0.550 (1.21)
			R, O, G	R, O, G	**XVC6M35SK**	0.600 (1.32)
			R, O, G, B	R, O, G, B	**XVC6M45SK**	0.650 (1.43)
			R, O, G, B, C	R, O, G, B, C	**XVC6M55SK**	0.710 (1.57)

Accessories for Support Tube Mounting and Base Mounting

| Description	For Use With	Diameter mm (in)	Minimum Height to be Added mm (in)	Catalog Number	Weight kg (lb)
Die-cast Metal Mounting Base for Support-tube Mounting	XVC6●● and XVC6●●5S	100 (3.94)	30 (1.18)	**XVCZ02**	0.080 (0.18)
Stamped Metal Plate for Base Mounting	XVC6●● K and XVC6●●5SK	84 (3.31)	21.6 (0.85)	**XVCZ12**	0.100 (0.22)
Wall Mounting Bracket for Support-tube Mounting	XVC6●● and XVC6●●5S	—	82 (3.23)	**XVCZ32**	0.130 (0.29)

(1) Signaling colors: R: Red, O: Orange, G: Green, B: Blue, C: Clear. The colors 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.

Schneider Electric

Tower Lights and Beacons
Preassembled Tower Lights
100 mm Diameter
Harmony® XVC

XVC1●5K
XVC1●5SK

XVCZ13

Complete, Pre-wired Tower Lights 100 mm Diameter

Description	Light Source (included)	Voltage	Signaling Colors (1)		Catalog Number	Weight kg (lb)
			Steady	**Flashing (2)**		
For Base Mounting						
Without Buzzer With Flashing Light	LED for steady or flashing light	24 Vdc	R	R	**XVC1B1K**	0.700 (1.54)
			R, O	R, O	**XVC1B2K**	0.900 (1.98)
			R, O, G	R, O, G	**XVC1B3K**	1.100 (2.43)
			R, O, G, B	R, O, G, B	**XVC1B4K**	1.300 (2.87)
			R, O, G, B, C	R, O, G, B, C	**XVC1B5K**	1.500 (3.31)
		100-240 Vac	R	R	**XVC1M1K**	1.000 (2.20)
			R, O	R, O	**XVC1M2K**	1.200 (2.65)
			R, O, G	R, O, G	**XVC1M3K**	1.400 (3.07)
			R, O, G, B	R, O, G, B	**XVC1M4K**	1.600 (3.53)
			R, O, G, B, C	R, O, G, B, C	**XVC1M5K**	1.800 (3.97)
With Buzzer + Flashing Light	LED for steady or flashing light	24 Vdc	R	R	**XVC1B1SK**	0.700 (1.54)
			R, O	R, O	**XVC1B2SK**	0.900 (1.98)
			R, O, G	R, O, G	**XVC1B3SK**	1.100 (2.43)
			R, O, G, B	R, O, G, B	**XVC1B4SK**	1.300 (2.87)
			R, O, G, B, C	R, O, G, B, C	**XVC1B5SK**	1.500 (3.31)
		100-240 Vac	R	R	**XVC1M1SK**	1.050 (2.31)
			R, O	R, O	**XVC1M2SK**	1.250 (2.76)
			R, O, G	R, O, G	**XVC1M3SK**	1.450 (3.20)
			R, O, G, B	R, O, G, B	**XVC1M4SK**	1.650 (3.64)
			R, O, G, B, C	R, O, G, B, C	**XVC1M5SK**	1.850 (4.08)

Accessories for Mounting on Vertical Support

Description	For Use With	Diameter mm (in)	Height mm (in)	Catalog Number	Weight kg (lb)
Mount Tube and Base	XVC1●●K and XVC1●●SK	140 (5.51)	300 (11.81)	**XVCZ13**	0.700 (1.54)
L-shape Mount Bracket	XVC1●●K and XVC1●●SK	—	—	**XVCZ23**	0.380 (0.84)

(1) Signaling colors: R: Red, O: Orange, G: Green, B: Blue, C: Clear. The colors 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.

Tower Lights and Beacons
Preassembled Tower Lights
40 mm Diameter
Harmony® XVC

Preassembled and Pre-wired Tower Lights

With Support Tube Mounting

XVC4B● | XVC4B●5S | XVC4M●, XVC4M●5S

For Direct Mounting on Horizontal Support

XVC4B●K

Drilling Plan

Height of Preassembled and Pre-wired Tower Lights

No. of Illuminated Units	b Without Buzzer mm (in)	b1 With buzzer mm (in)	
		XVC4B●5S	XVC4M●, XVC4M●5S
1 stage	403.5 (15.89)	524.5 (20.65)	567.2 (22.33)
2 stages	438.5 (17.26)	559.5 (22.03)	602.2 (23.71)
3 stages	473.5 (18.64)	594.5 (23.41)	637.2 (28.09)
4 stages	508.5 (20.02)	629.5 (24.78)	672.2 (26.46)
5 stages	543.5 (21.40)	664.5 (26.16)	707.2 (27.84)

No. of Illuminated Units	b Without Buzzer mm (in)
1 stage	100.5 (3.96)
2 stages	135.5 (5.33)
3 stages	170.5 (6.71)
4 stages	205.5 (8.09)
5 stages	240.5 (9.47)

Accessories for Tower Lights Type XVC4●● and XVC4●●5S

Die-cast Metal Mounting Base, XVCZ11 | **Plastic Mounting Base, XVCZ01** | **Wall Mounting Bracket, XVCZ31**
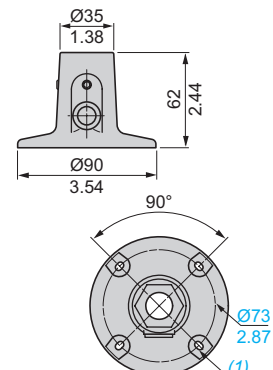
(1) 4 elongated holes Ø 4.2 x 5.
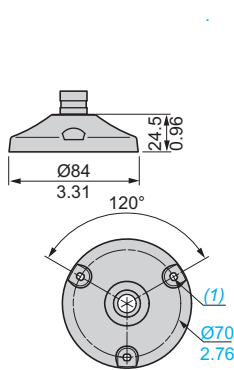
(1) 3 elongated holes Ø 4.2 x 5
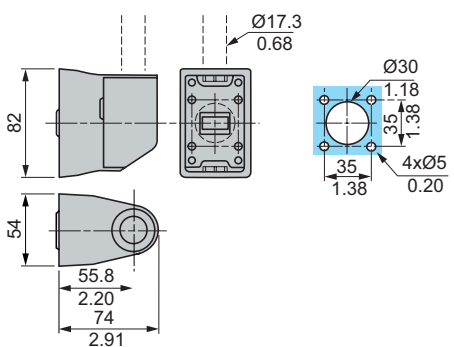
Dimensions mm/in.

Schneider Electric

Tower Lights and Beacons
Preassembled Tower Lights
60 mm Diameter
Harmony® XVC

Preassembled and Pre-wired Tower Lights

With Support Tube Mounting			For Mounting on Horizontal Support (direct or with mounting plate)	
XVC6B●	**XVC6B●5S**	**XVC6M●, XVC6M●5S**	**XVC6B●K, XVC6B●5SK**	**XVC6M●K, XVC6M●5SK**
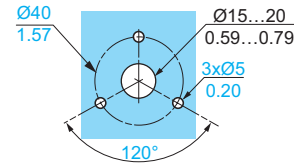
Height of Preassembled and Pre-wired Tower Lights

No. of Illuminated Units	b without Buzzer mm (in)	b1 with Buzzer mm (in)		No. of Illuminated Units	b with or without Buzzer mm (in)	
		XVC6B●5S	**XVC6M●, XVC6M●5S**		**XVC6B●K, XVC6B●5SK**	**XVC6M●K, XVC6M●5SK**
1 stage	428.3 (16.86)	483.1 (19.02)	599.8 (23.61)	**1 stage**	120.8 (4.76)	232 (9.13)
2 stages	468.3 (18.44)	523.1 (20.59)	639.8 (25.19)	**2 stages**	160.8 (6.33)	272 (10.71)
3 stages	508.3 (20.01)	563.1 (22.17)	679.8 (26.76)	**3 stages**	200.8 (7.91)	312 (12.28)
4 stages	548.3 (21.59)	603.1 (23.74)	719.8 (28.34)	**4 stages**	240.8 (9.48)	352 (13.86)
5 stages	588.3 (23.16)	643.1 (25.32)	759.8 (29.91)	**5 stages**	280.8 (11.06)	392 (14.43)

Accessories for Mounting on Horizontal Support

Die-cast Metal Mounting Base XVCZ02 for XVC6	Stamped Metal Plate XVCZ12 for XVC6●●K / XVC6●●5SK	Wall Mounting Bracket XVCZ32 for XVC6●●/6●●5S
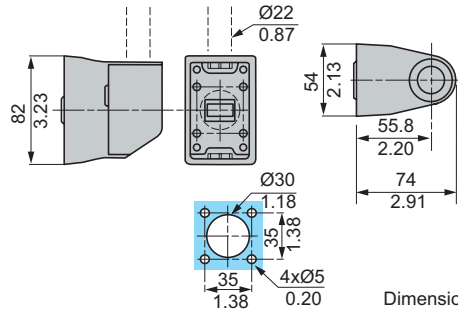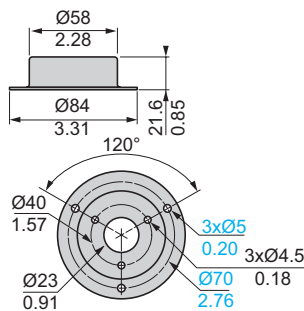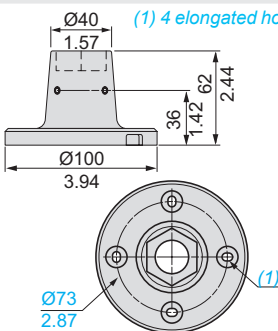
Dimensions $\dfrac{mm}{in.}$

Tower Lights and Beacons
Preassembled Tower Lights
100 mm Diameter
Harmony® XVC

Preassembled and Pre-wired Tower Lights

For Mounting on Horizontal Support (direct or with L-shaped Mount Bracket)

XVC1●●K, XVC1●●SK Tower Lights

XVCZ23 L-shape Mount Bracket
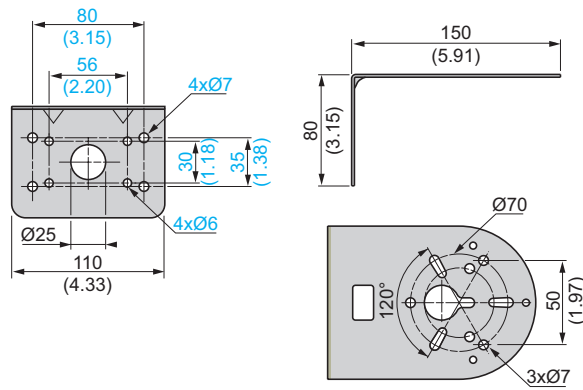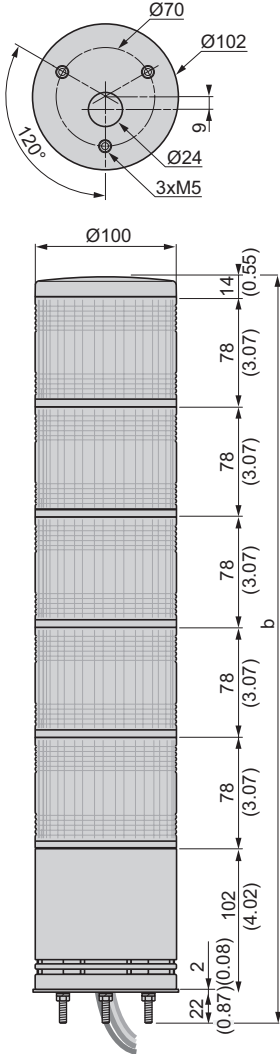
XVCZ13 Mount Tube and Base
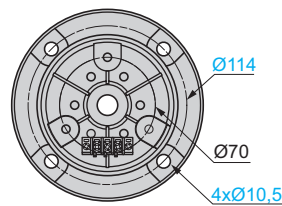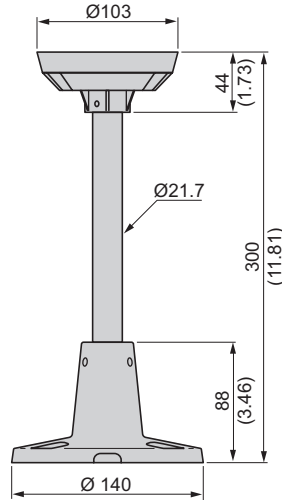
Drilling Plan
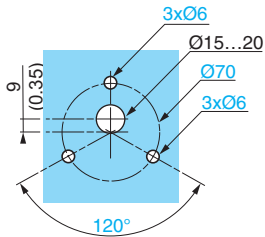
Dimensions $\frac{mm}{in.}$

Height of Preassembled and Pre-wired Tower Lights

No. of Illuminated Units	b mm (in)
1	216 (8.50)
2	294 (11.57)
3	372 (14.65)
4	450 (17.72)
5	528 (20.79)

Tower Lights and Beacons
Rotating Mirror Beacons
Harmony® XVR

Introduction

The Harmony XVR rotating mirror beacons are pre-wired with superbright LEDs for long-distance visual signaling. They can be used for most industrial applications; including: fork lifts, cranes, and hoists.

Environment Specifications

Rotating Beacons Type			XVR08	XVR10	XVR12	XVR13B●●●	XVR13●●●L
Product Certifications			CE, UL Recongnized EI64353 CCN NKCR, CSA LR44087 Class 3211-03, RoHS				
Conforming to Standards			UL 508, CSA 22.2 No. 14			EN/IEC 60947-1 EN/IEC 60947-5-1 UL 508 CSA 22.2 No. 14	
Protective Treatment	Conforming to UTE C63-100		"TC"				
Ambient Air Temperature	For storage	°C (°F)	- 35…+ 70 (- 31…+ 158)				
	For operation	°C (°F)	- 10…+ 50 (- 14…+ 122)			- 30…+ 50 (- 22…+ 122)	
Electric Shock Protection conforming to IEC 61140			Class II				
Degree of Protection conforming to IEC 60529			IP 23 (IP 65 with accessory)	IP 23 (IP 55 with accessory)	IP 23	IP 66 (resistant to vibration)	IP 66 and IP 67
Material	Domed lens unit		PC				
	Base		ABS				
Light Source			Super-bright LED				

Electrical Specifications

Rotating Beacons Type			XVR08J XVR10J XVR12J XVR12J●●S	XVR08B XVR10B XVR12B XVR12B●●S XVR13B●●L	XVR13J	XVR13B	XVR13G●●L	XVR13M●●L
Voltage		V	12 Vac/dc	24 Vac/dc	12 Vdc	24 Vdc	120 Vac	230 Vac
Rated Impulse Withstand Voltage		kV	0.8				4	
Consumption	Without buzzer	W	3 12 Vac/dc: 360 mA 24 Vac/dc: 180 mA				5	
	With buzzer (for XVR12●●●S)	W	4	4.7	–			
Audible Units with Continuous or Intermittent Tone (short/long or high/low)	For XVR12●●●S Sound level at 1 m	dB	50...90					
Flashing Frequency of Illuminated Units		Hz	2.3 2.7 for XVR13					
Connection	Wire c.s.a	mm²	0.83 mm² / SPT-1 18 AWG (1) for XVR08●, XVR10● and XVR12● 0.83 mm² / UL1007 18 AWG (1) for XVR12●●●S 1.25 mm² / VCT for XVR13					
	Cable length	mm (in)	400 500 for XVR08●					

(1) AWG: American Wire Gauge.

Tower Lights and Beacons
Rotating Mirror Beacons
Harmony® XVR (equipped with super-bright LED)

XVR08●●●

XVR10●●●

XVR13●●●

XVR13●●●L

Complete, pre-wired rotating mirror beacons

Diameter mm	Sound Option	IP Degree of Protection	Voltage V	Color	Catalog Number	Weight kg (lb)
84	Without Buzzer	IP 23 (IP 65 With accessories)	12 Vac/dc	Red	**XVR08J04**	0.300 (0.66)
				Orange	**XVR08J05**	0.300 (0.66)
				Green	**XVR08J03**	0.300 (0.66)
				Blue	**XVR08J06**	0.300 (0.66)
			24 Vac/dc	Red	**XVR08B04**	0.300 (0.66)
				Orange	**XVR08B05**	0.300 (0.66)
				Green	**XVR08B03**	0.300 (0.66)
				Blue	**XVR08B06**	0.300 (0.66)
106	Without Buzzer	IP 23 (IP 55 With accessories)	12 Vac/dc	Red	**XVR10J04**	0.500 (1.10)
				Orange	**XVR10J05**	0.500 (1.10)
				Green	**XVR10J03**	0.500 (1.10)
				Blue	**XVR10J06**	0.500 (1.10)
			24 Vac/dc	Red	**XVR10B04**	0.500 (1.10)
				Orange	**XVR10B05**	0.500 (1.10)
				Green	**XVR10B03**	0.500 (1.10)
				Blue	**XVR10B06**	0.500 (1.10)
120	Without Buzzer	IP 23	12 Vac/dc	Red	**XVR12J04**	0.500 (1.10)
				Orange	**XVR12J05**	0.500 (1.10)
				Green	**XVR12J03**	0.500 (1.10)
				Blue	**XVR12J06**	0.500 (1.10)
			24 Vac/dc	Red	**XVR12B04**	0.500 (1.10)
				Orange	**XVR12B05**	0.500 (1.10)
				Green	**XVR12B03**	0.500 (1.10)
				Blue	**XVR12B06**	0.500 (1.10)
120	With buzzer	IP 23	12 Vac/dc	Red	**XVR12J04S**	0.500 (1.10)
				Orange	**XVR12J05S**	0.500 (1.10)
				Green	**XVR12J03S**	0.500 (1.10)
				Blue	**XVR12J06S**	0.500 (1.10)
			24 Vac/dc	Red	**XVR12B04S**	0.500 (1.10)
				Orange	**XVR12B05S**	0.500 (1.10)
				Green	**XVR12B03S**	0.500 (1.10)
				Blue	**XVR12B06S**	0.500 (1.10)
130	Without Buzzer	IP 66 Resistant to vibration	12 Vdc	Red	**XVR13J04**	0.800 (1.76)
				Orange	**XVR13J05**	0.800 (1.76)
			24 Vdc	Red	**XVR13B04**	0.800 (1.76)
				Orange	**XVR13B05**	0.800 (1.76)
		IP 66 and IP 67	24 Vac/dc	Red	**XVR13B04L**	0.820 (1.81)
				Orange	**XVR13B05L**	0.820 (1.81)
			120 Vac	Red	**XVR13G04L**	0.990 (2.18)
				Orange	**XVR13G05L**	0.990 (2.18)
			230 Vac	Red	**XVR13M04L**	0.990 (2.18)
				Orange	**XVR13M05L**	0.990 (2.18)

Accessories for rotating mirror beacons

Description	Comments	For Use With	Height mm (in)	Catalog Number	Weight kg (lb)
Reflecting Prism	Improves light diffusion	XVR08	–	**XVRZR1**	0.010 (0.02)
		XVR10	–	**XVRZR2**	0.015 (0.03)
		XVR12 & XVR13	–	**XVRZR3**	0.020 (0.04)
Rubber Base	Increases IP rating	XVR08	–	**XVRZ081**	0.040 (0.09)
		XVR10	–	**XVRZ082**	0.050 (0.11)
Metal Angle Bracket	Horizontal support	XVR08, XVR10, XVR12	–	**XVCZ23**	0.380 (0.84)
		XVR13	–	**XVR012L**	1.300 (2.87)
Mounting Pole with Base	Horizontal support	XVR10, XVR12	300	**XVCZ13**	0.700 (1.54)

XVRZR1

XVRZ081

Tower Lights and Beacons
Rotating Mirror Beacons
Harmony® XVR

Complete, Pre-wired Rotating Mirror Beacons

XVR08●0●

XVRZ081 (rubber base-optional part)

XVR10●0●

XVRZ082 (rubber base-optional part)
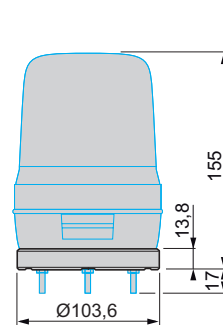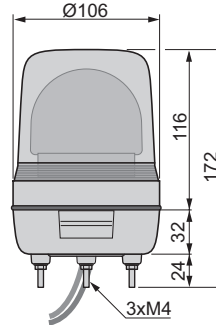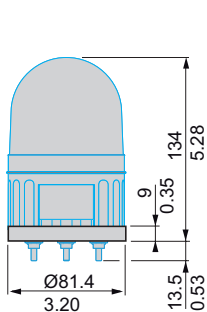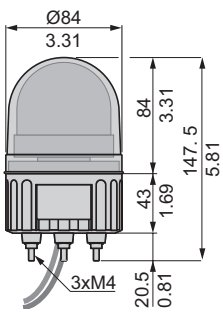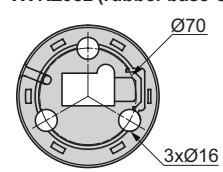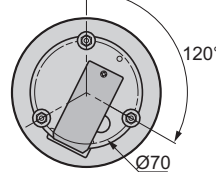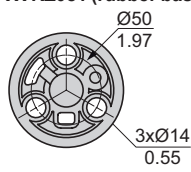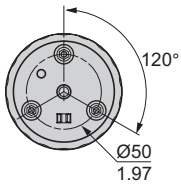
Drilling Plan

Drilling Plan

Dimensions $\dfrac{mm}{in.}$

Tower Lights and Beacons
Rotating Mirror Beacons
Harmony® XVR (equipped with super-bright LED)

Complete, Pre-wired Rotating Mirror Beacons *(continued)*

XVR12●0●

Drilling Plan

XVR12●0●S

Drilling Plan

XVR13●0●

Drilling Plan

XVR13●0●L

Drilling Plan

Dimensions $\frac{mm}{in.}$

Schneider Electric

Tower Lights and Beacons
Sirens and Electronic Alarms
Harmony® XVS
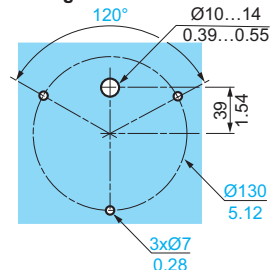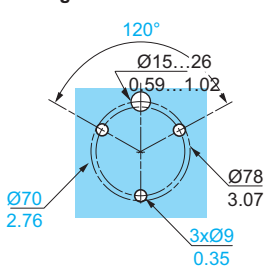
Introduction

Harmony XVS sirens and electronic alarms are audible signaling units used for long-distance indication of the operating status or sequences of a machine or installation. Typical applications include conveyor belts, automated industrial trucks, and doors of electrical control panels.

Specifications

Type of Siren or Alarm			XVS10BMW	XVS10GMW XVS10MMW	XVS14BMW	XVS14GMW XVS14MMW	XVS72BM●●	XVS96BM●●
Environment Specifications								
Product Certifications			CE, UL Recongnized EI64353, CCN UCST, CSA LR44087 Class 3211-03, RoHS					
Conforming to Standards			EN/IEC 60947-1 EN/IEC 60947-5-1 UL508 CSA22.4 No. 14		EN/IEC 61000-6-2, EN/IEC 61000-6-3, UL508, CSA22.4 No. 14	EN/IEC 60947-1, EN/IEC 60947-5-1, UL508, CSA22.4 No. 14	EN/IEC 61000-6-2, EN/IEC 61000-6-3, UL508, CSA22.4 No. 14	EN/IEC 60947-1, EN/IEC 60947-5-1, UL508, CSA22.4 No. 14
Protective Treatment	Conforming to UTE C63-100		"TC"					
Ambient Air Temperature	Storage	°C (°F)	- 35…+ 70 (- 31…+ 158)					
	Operation	°C (°F)	- 30…+ 50 (- 22…+ 122)		- 10…+ 50 (- 14…+ 122)		- 20…+ 50 (- 4…+ 122)	
Electric Shock Protection conforming to EN/IEC 61140			Class II					
Degree of Protection conforming to EN/IEC 60529			IP 53				IP 54	
Material	Terminal cover		—				PC	
	Base		PC		PC/ABS		ABS	PC or ABS
Sound	Number of options (tones)		2		43		16	
Electrical Specifications								
Voltage		V	12-24 Vac/dc	120 Vac 230 Vac	12/24 Vdc	120 Vac 240 Vac	12/24 Vdc	
Rated Impulse Withstand Voltage			0.8	4	0.8	4	0.8	
PowerConsumption			12 Vac/dc: 500 mA 24 V Vac/dc: 300 mA	120 Vac: 80 mA 230 Vac: 40 mA	12 Vdc: 250 mA 24 Vdc: 350 mA	120 Vac: 100 mA 240 Vac: 50 mA	12 Vac/dc: 1.9/1.4 W 24 Vac/dc: 4.8/3 W	12 Vac/dc: 3.5/3 W 24 Vac/dc: 8.5/7 W
Audible Units	Sound level (continous or intermittant tone) at 1 m	dB	106		0…105		0…90	0…96
Cabling	Cable diameter		Cable-gland for 6.5 to 8.5 mm customer wiring		Power wire c.s.a.: 0.52 mm^2 / 20 AWG *(1)* Signal wire c.s.a.: 0.33 mm^2 / 22 AWG *(1)*		Not pre-wired	
	Maximum clamping capacity	mm²	1 x 1.5		–		1 x 1.5	
	Cable length	mm (in)	—		500 (19.68)		—	

(1) AWG: American Wire Gauge.

Tower Lights and Beacons
Sirens and Electronic Alarms
Harmony® XVS

Catalog Numbers

XVS10●M

XVS14●MW

XVS72BM●●
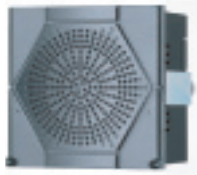
XVS96BM●●

Description	Voltage	Color	Catalog Number	Weight
	V			kg (lb)
Sirens 106 dB, 2 tones	12-24 Vac/dc	White	**XVS10BMW**	0.800 (1.76)
	120 Vac	White	**XVS10GMW**	1.000 (2.20)
	230 Vac	White	**XVS10MMW**	1.000 (2.20)
Multisound Siren 105 dB, 43 Tones 8 Channels Pre-wired	12/24 Vdc	White	**XVS14BMW**	1.000 (2.20)
	120 Vac	White	**XVS14GMW**	1.200 (2.65)
	240 Vac	White	**XVS14MMW**	1.200 (2.65)
Electronic Alarms 90 dB, 16 Tones Panel Mount DIN72 4 Channels	12/24 Vac/dc	PNP, Black	**XVS72BMBP**	0.180 (0.40)
		PNP, White	**XVS72BMWP**	0.180 (0.40)
		NPN, Black	**XVS72BMBN**	0.180 (0.40)
		NPN, White	**XVS72BMWN**	0.180 (0.40)
Electronic Alarms 96 dB, 16 Tones Panel Mount DIN96 4 Channels	12/24 Vac/dc	PNP, Black	**XVS96BMBP**	0.400 (0.88)
		PNP, White	**XVS96BMWP**	0.400 (0.88)
		NPN, Black	**XVS96BMBN**	0.400 (0.88)
		NPN, White	**XVS96BMWN**	0.400 (0.88)

Dimensions

XVS10●M
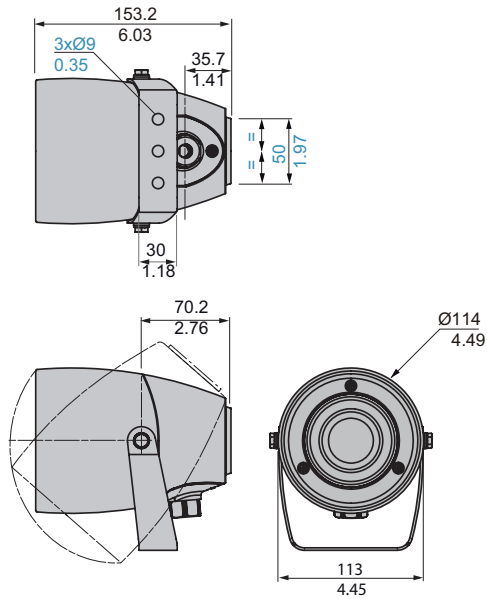
XVS14●MW
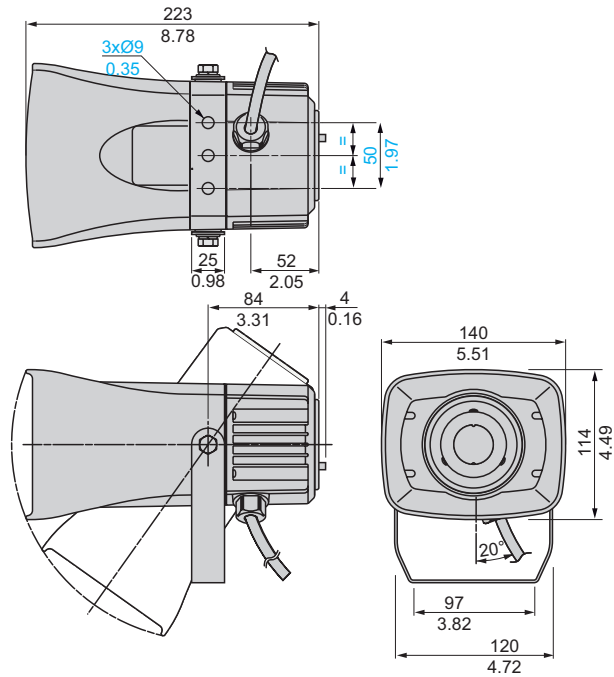
XVS72BM●●

XVS96BM●●

Dimensions $\frac{mm}{in.}$

Schneider Electric

Schneider Electric

January 2011

9001CT1002