## Presentation

## **Beacons and indicator banks**

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





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

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

### Presentation

- Ø 70 mm beacons and indicator banks type XVD are available in 2 forms: **Complete pre-cabled products**
- Depending on the model, they are "ready to use":
- □ with 1, 2, 3 or 4 illuminated signalling units (light source included),
- □ with or without "flash" unit,
- □ with or without audible signalling unit (buzzer),
- with fixing base.

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

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

#### Light signalling

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

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

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

#### Audible signalling

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

□ The volume of the audible signal is adjustable up to a value of 90 decibels at a distance of 1 m.

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

#### Cabling and mounting

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

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

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

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

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

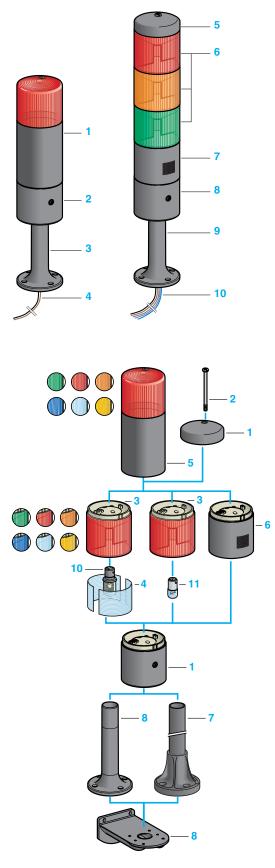
(1) Diffuser not compatible with units fitted with an incandescent bulb or "flash" discharge tube.

Schneider Belectric

## Presentation. description

## **Beacons and indicator banks**

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



### Description

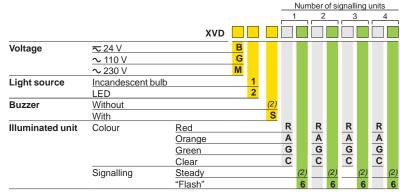
Complete pre-cabled Ø 70 mm beacons and indictor banks XVD

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

The assembled indicator banks comprise:

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

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



#### **Reference example**

XVD B2SGR = indicator bank for 7 24 V supply voltage comprising a buzzer, one green lens illuminated unit and one red lens illuminated unit, both fitted with an LED

#### Customer assembled Ø 70 mm indicator banks XVD

A customised indicator bank can be obtained by assembling:

- a cover and a base unit incorporating a removable terminal block (3) with bottom 1 cable entry,
- a fixing screw for the combined units (4),
- 5 illuminated units maximum (5) with red, orange, green, blue or clear lens, light 3 source not included (6),
- a light diffuser (accessory that is only compatible with illuminated units fitted with an LED),
- 5 an illuminated unit with integral "flash" discharge tube (always mounted at the top of the bank),
- an audible unit (buzzer),
- a fixing base comprising an aluminium support tube glued into a plastic fixing 7 plate, for raising the indicator bank by 80, 380 or 780 mm,
- a plastic fixing base (support tube with integral fixing plate), height 100 mm, 8
- q a zamak fixing plate for use on a vertical support,
- 10 Base mounted LED,
- 11 Incandescent bulb.
- (1) This table is purely for information and must not be used to create references.
- (2) Not indicated, default value.
- (3) Electrical connections to removable terminal block to be made by user.
- (4) Variable length screw depending on the number of units to be combined. To be ordered separately, see page 35096-EN\_Ver3.0/6.
   (5) Maximum configuration possibilities:
- □ 5 illuminated units mounted on base unit. 4 illuminated units + 1 "buzzer" mounted on base unit.
- (6) Incandescent bulbs or LEDs to be ordered separately, see page 35096-EN\_Ver3.0/7.

Characteristics: page 35096-EN\_Ver3.0/2

References: page 35096-EN\_Ver3.0/3

Dimensions, mounting: page 35096-EN\_Ver3.0/8

35094-EN\_Ver3.1.indd

### Schneider Belectric

## **Characteristics**

## **Beacons and indicator banks**

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

Environment			
Conformity to standards			EN/IEC 60947-5-1
Product certifications			UL, CSA, GOST
Protective treatment	Standard version		"TC"
Ambient air temperature	For storage	°C	- 40+ 70
	For operation (1)	°C	Illuminated units with steady light signalling: - 25+ 70, with 10 W max. incandescent bulb - 25+ 50, with LED
		°C	Illuminated units with flashing light signalling: - 25+ 50, with 7 W max. incandescent bulb - 25+ 40, with 10 W max. incandescent bulb - 25+ 50, with LED
		°C	Illuminated units with "flash" discharge tube: - 25+ 50
		°C	Audible units: - 25+ 50, with buzzer
Electric shock protection Conforming to IEC 536	Mounted on support tube		Class I with metal fixing plate Class II with plastic fixing plate
	Mounted on base unit		Class II
Degree of protection	Conforming to IEC 60529		IP 40
Material	Illuminated units		Polycarbonate
	Base unit and cover		Glass-reinforced polyamide and polycarbonate
	Fixing bases		Support tube with integral fixing plate: plastic (XVD C02) Aluminium support tube glued into plastic fixing plate (XVB Z0•)
	Fixing plate XVB C12 for use on vertical support		Zamak
<b>Electrical characte</b>	eristics		
Rated insulation voltage (Ui)	Conforming to IEC 60947-1	v	250
Voltage limits	Conforming to IEC 60947-5-1	G	0.85 to 1.10 Un (Un: nominal voltage)
Consumption	LED unit	mA	Steady light signalling:           ∼ 24 V: < 47
		mA	Flashing light signalling: $\sim 24 \text{ V: } < 47$ $\sim 120 \text{ V: } < 17$ $\sim 230 \text{ V: } < 17$
	5 Joule "flash" discharge tube unit (on energisation)	mA	$\sim 24 \text{ V:} < 550$ == 24 V: < 350 $\sim 120 \text{ V:} < 140$ $\sim 230 \text{ V:} < 105$
	Audible units	mA	≂ 1248 V: < 20 ~ 120230 V: < 50
Rated impulse withstand voltage	Conforming to IEC 60947-1	kV	Uimp = 4
Light source	Illuminated units with steady or flashing light signalling		Incandescent bulbs with BA 15d base fitting, maximum power 10 W LED with BA 15d base fitting
Illuminating power	Illuminated units with discharge circuit (integral discharge tube)	cds	13 (integral high intensity tube) with clear lens unit: 5 J tube
Audible unit	Continuous or intermittent tone	dB	90 at 1 m (adjustable: 7090 dB)
	Fundamental frequency	kHz	2.8
Terminal referencing	Common to all 5 units		1 terminal referenced "C"
	Depending on number of units		1 or 5 terminals referenced 1 to 5
0	Maximum clamping capacity on protected, ready-to-tighten, screw	mm²	1 x 1.5 with cable end 1 x 0.82 with bared wire ends (complete products)
Connection	and captive cable clamp terminals		
Frequency of illuminated		Hz	1

illuminated units, due to the risk of overheating. Also, when different units (e.g. steady, flashing...) are combined, the maximum temperature

is limited to that of the weaker unit.

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# **Beacons and indicator banks**

Beacons and indicator banks Ø 70 mm Harmony type XVD Application Complete pre-cabled beacons and indicator banks



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XVD	2S•R
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Composition	Light source	Voltage	Signalling colour (1)		Reference (2)	Weight
	(included)		Steady	"Flash"		kg
l illuminated unit	"Flash" discharge tube 5 J	$\sim$ 24 V	-	R	XVD BR6	0.600
			_	0	XVD BA6	0.600
		$\sim$ 230 V	-	R	XVD MR6	0.600
			_	0	XVD MA6	0.600

Complete pre-cal	bled indicator ban	iks				
With 2 signalling unit	s					
Composition	Light source (included)	Voltage	Signalling Steady	colour (1) "Flash"	Reference (2)	Weight kg
2 illuminated units	LED	$\sim$ 24 V	G-R	-	XVD B2GR	0.553
			O-R	-	XVD B2AR	0.553
	LED + "flash" discharge tube 5 J	$\sim$ 24 V	G	R	XVD B2GR6	0.755
1 illuminated unit + 1 audible "buzzer" unit	"Flash" discharge tube 5 J	$\sim$ 24 V	-	0	XVD BSA6	0.775

Composition	Light source	Voltage	Signalling colour (1)		Reference (2)	Weight
	(included)		Steady	"Flash"		kg
3 illuminated units	Incandescent bulb 10 W max.	$\sim$ 24 V	G-O-R	-	XVD B1GAR	0.923
		$\sim$ 230 V	G-0-R	-	XVD M1GAR	0.923
	LED	$\sim$ 24 V	G-0-R	-	XVD B2GAR	0.698
		$\sim$ 230 V	G-0-R	-	XVD M2GAR	0.698
	LED + "flash" discharge tube 5 J	≂ 24 V	G-0	R	XVD B2GAR6	0.898
2 illuminated units + 1 audible "buzzer" unit	LED	$\sim$ 24 V	G-R	-	XVD B2SGR	0.718
			O-R	-	XVD B2SAR	0.718
		$\sim$ 230 V	G-R	-	XVD M2SGR	0. 718
With 4 signalling units	;					
Composition	Light source (included)	Voltage	Signalling Steady	colour (1) "Flash"	Reference (2)	Weight kg
4 illuminated units	LED	$\sim$ 24 V	C-G-O-R	-	XVD B2CGAR	0.843
3 illuminated units + 1 audible "buzzer" unit	Incandescent bulb 10 W max.	$\sim$ 24 V	G-0-R	-	XVD B1SGAR	1.088
	LED	$\sim$ 24 V	G-0-R	-	XVD B2SGAR	0.863
						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 35094-EN\_Ver3.0/2

Characteristics: page 35096-EN\_Ver3.0/2

Dimensions, mounting: page 35096-EN\_Ver3.0/8



## **Beacons and indicator banks**

Beacons and indicator banks Ø 70 mm Harmony type XVD Application Beacons for customer assembly



XVD L400

Beacons for customer assembly With steady light signalling Description Light source, to be Colour Reference Weight ordered separately (1) kg Beacon comprising: Incandescent bulb XVD L33 0.255 Green 10 W max., 250 V max. - 1 illuminated unit 1 base unit or LED Red 0.255 XVD L34 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 Colour Reference Weight ordered separately (1) kg Incandescent bulb XVD L4B3 0.275 Beacon comprising: Green 1 illuminated unit 10 W max.,  $\sim$  24 V, = 24...48 V - 1 base unit or I FD Red XVD L4B4 0 275 Orange XVD L4B5 0.275 Blue XVD L4B6 0.275 XVD L4B7 0 275 Clear Yellow XVD L4B8 0.275 Incandescent bulb XVD L4M3 0 275 Green 10 W max.,  $\sim$  48...230 V or LED Red XVD L4M4 0.275 Orange XVD L4M5 0.275 Blue XVD L4M6 0.275 Clear XVD L4M7 0.275 Yellow XVD L4M8 0 275 With 5 Joule "flash" discharge tube Description Light source Colour Reference Weight (included) kg Beacon comprising: Integral "flash" discharge tube 0.480 XVD L6B3 Green - 1 illuminated unit  $\sim$  24 V 1 base unit Red XVD L6B4 0.480 XVD L6B5 0.480 Orange Blue XVD L6B6 0.480 Clear XVD L6B7 0.480 Yellow XVD L6B8 0.480 Integral "flash" discharge tube Green XVD L6M3 0.475  $\sim$  230 V Red XVD L6M4 0.475 Orange XVD L6M5 0.475 Blue XVD L6M6 0.475 Clear XVD L6M7 0.475

(1) Incandescent bulbs and LEDS: see page 35096-EN\_Ver3.0/7.

Yellow

Presentation, description: page 35094-EN\_Ver3.0/2 Characteristics: page 35096-EN\_Ver3.0/2 Dimensions, mounting: page 35096-EN\_Ver3.0/8

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0.475

XVD L6M8

XVD L6.

References

## **Beacons and indicator banks**

Beacons and indicator banks Ø 70 mm Harmony type XVD Application Indicator banks Ø 70 mm for customer assembly (up to 5 units)

	customer assembly of 1 to	5 signalling u	nits	
Illuminated units with ste	eady light signalling			
Description	Light source, to be ordered separately (1)	Colour	Reference	Weight kg
Illuminated units	Incandescent bulb	Green	XVD C33	0.115
	10 W max., 250 V max. or LED	Red	XVD C34	0.115
	OI LED	Orange	XVD C35	0.115
		Blue	XVD C36	0.115
		Clear	XVD C37	0.115
		Yellow	XVD C38	0.115
Illuminated units with int	egral flashing light signalling			
Description	Light source, to be ordered separately (1)	Colour	Reference	Weight kg
Illuminated units	Incandescent bulb	Green	XVD C4B3	0.135
	10 W max., $\sim$ 24 V, $=$ 2448 V or LED	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	Green	XVD C4M3	0.135
	10 W max., ~ 48230 V	Red	XVD C4M4	0.135
	or LED	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 J	oule "flash" discharge tube			
Description	Light source (included)	Colour	Reference	Weight kg
Illuminated units	Integral "flash" discharge tube	Green	XVD C6B3	0.310
	$\sim$ 24 V	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	Green	XVD C6M3	0.310
	$\sim$ 230 V	Red	XVD C6M4	0.310
		Orange	XVD C6M5	0.310
		Blue	XVD C6M6	0.310
		Diuc		
		Clear	XVD C6M7	0.310

XVD C6ee

Presentation, description: page 35094-EN\_Ver3.0/2 Characteristics: page 35096-EN\_Ver3.0/2

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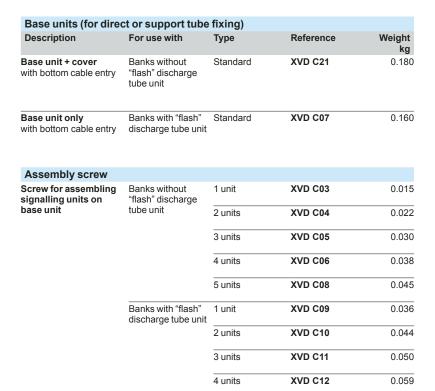
## References (continued)

# **Beacons and indicator banks**

Beacons and indicator banks Ø 70 mm Harmony type XVD Application Indicator banks Ø 70 mm for customer assembly (up to 5 units)

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

Audible units			
Description	Characteristics	Reference	Weight kg
Buzzer, 90 dB at 1 m adjustable, 70 to 90 dB,	$\approx$ 1248 V	XVD C9B	0.150
continuous or intermittent mode (using microswitches)	∼120230 V	XVD C9M	0.150





XVD C9•



XVD C07

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## References

## **Beacons and indicator banks**

Beacons and indicator banks Ø 70 mm Harmony type XVD Application Accessories for customer assembled beacons and indicator banks

Accessories common to beacons and indicator banks

Support tube

Black aluminium

Black aluminium

Black aluminium

Sold in

lots of

10

10

10

10

1

1

1

1

1

1

1

colour

Aluminium

Aluminium

Aluminium

Colour

Black

Direct mounting on base unit or using

support tube with integral fixing plate

White

Green

Orange

Red

Blue

Yellow

White

Green

Orange

Red

Blue

XVD C02 or using fixing bases XVB Z0

Reference

XVB Z02

XVB Z02A

XVB Z03

XVB Z03A

XVB Z04

XVB Z04A

Reference

XVD C02

XVB C12

Unit reference

DL1 B•J (1)

DL1 B•B (1)

DL1 B•E (1)

DL1 B•G (1)

DL1 B•M (1)

DL1 BDB1

DL1 BDB3

DL1 BDB4

DL1 BDB5

DL1 BDB6

DL1 BDB8

DL1 BDG1

DL1 BDG3

DL1 BDG4

DL1 BDG5

DL1 BDG6

DL1 BKM8

Weight

kg

0.110

0.110

0.200

0.200

0.325

0.325

0.070

0.380

0.020

kg

0.090

0.090

0.090

0.090

0.090

0.015

0.015

0.015

0.015

0.015

0.015

0.015

0.015

0.015

0.015

0.015

Weight

Weight kg

Height under

80

380

780

Details

100 mm

Characteristics

12 V

24 V

48 V

120 V

230 V

 $\sim$  24 V

 $\sim$  120 V

base unit (mm)

Description

**Fixing bases** 

Description

Fixing base (plastic

Fixing plate (Zamak)

Incandescent bulbs

BA 15d base fitting

BA 15d base fitting

for use on vertical

support

LEDs

Cover only

Description

support tube with integral fixing plate)

comprising Ø 25 mm

aluminium support tube glued into a black

plastic fixing plate

	1	-	
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XVB Z02



XVB Z03/Z04



XVD C02



XVB C12





		Yellow	1	DL1 BDG8	0.015
	$\sim$ 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	$\sim$ 24 V	White	1	DL1 BKB1	0.015
BA 15d base fitting		Green	1	DL1 BKB3	0.015
-tod <sup>®</sup>		Red	1	DL1 BKB4	0.015
Protected <sup>®</sup>		Orange	1	DL1 BKB5	0.015
		Blue	1	DL1 BKB6	0.015
		Yellow	1	DL1 BKB8	0.015
	$\sim$ 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
	$\sim$ 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) Complete the reference using the letter "E" for a 7 W bulb or the letter "L" for a 10 W bulb.

1

DL1 BDee/DL1 BKee Presentation, description: page 35094-EN\_Ver3.0/2

Characteristics: page 35096-EN\_Ver3.0/2

Example: DL1 BEJ. Dimensions, mounting: page 35096-EN\_Ver3.0/8

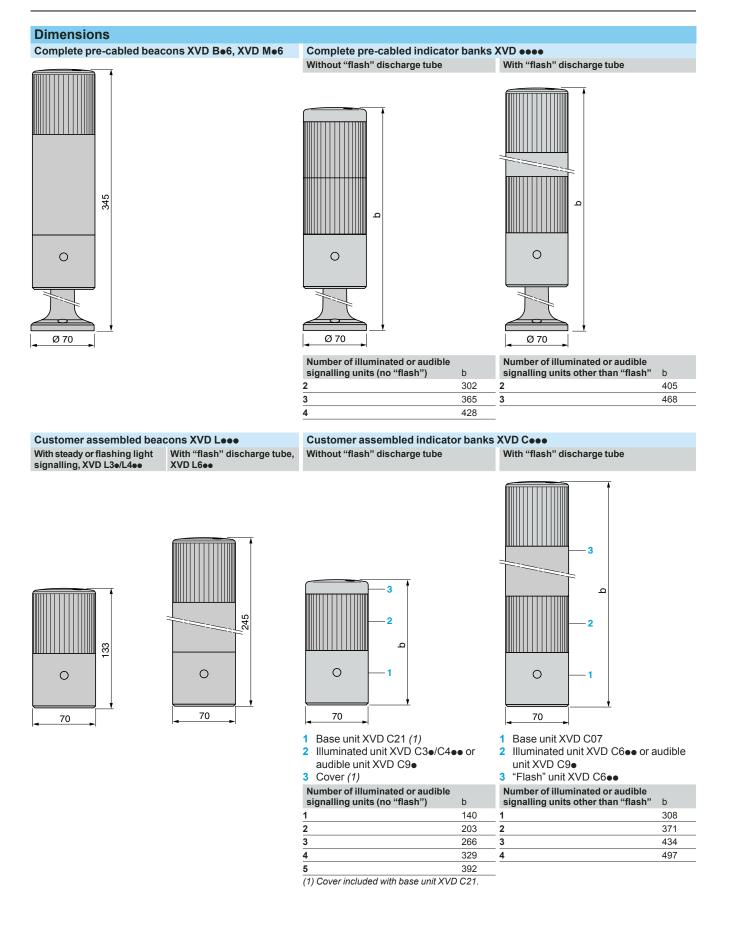
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0.015

## Dimensions

# **Beacons and indicator banks**

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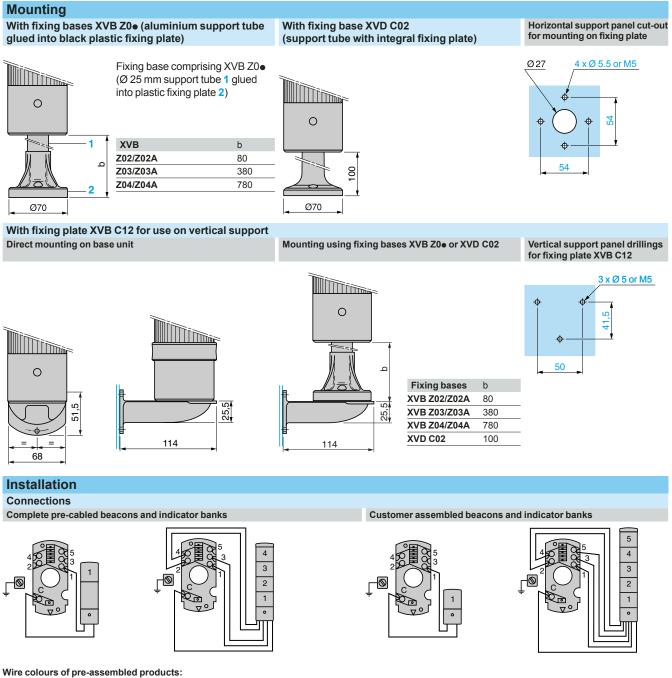


References: page 35096-EN Ver3.0/3

## Mounting, installation

# **Beacons and indicator banks**

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



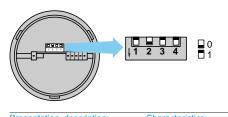
- C: black
- 1: brown
- 2: grey 3: violet
- 4: blue

### Adjustment of audible signal for buzzers type XVD C9.

By 4 microswitches located in the base of the buzzer:

□ 2 switches marked 1 and 2 for selecting continuous or intermittent mode (Hz).

□ 2 switches marked 3 and 4 for selecting the audible signal power (dB).



Position of microswitches				Setting		
1	2	3	4	Mode	Power	
1	1	1	1	— 2.8 kHz	90 dB (Factory setting)	
1	0	0	1	— 2.8 kHz	85 dB	
0	1	1	0	υυ 5Hz <i>(1)</i>	80 dB	
0	0	0	0	נר 1Hz	70 dB	

Presentation, description: page 35094-EN\_Ver3.0/2

### Characteristics: page 35096-EN\_Ver3.0/2

References: page 35096-EN Ver3.0/3

35096-EN\_Ver3.0.indd

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 9012GFW1
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