

Push Buttons and Operator Interface Specifiers Guide

XVP Illuminated Indicating Banks Supplement

Class 9001



Merlin Gerin

Modicon

Square D

Telemecanique

Schneider Electric Brands

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XVP Illuminated Indicating Banks Characteristics

CHARACTERISTICS

Environment

Product certifications	UL Listed, CSA Certified  File E164353 CCN NKCR  File LR 44087 Class 3211 03  File E164353 CCN NKCR 2	
Conforming to standards	CE Marked	IEC/EN 60947-5-1. UL 508
Protective Treatment		"TC"
Ambient Air Temperature (Storage)		-40 to +158 °F -40 to +70 °C
Operation	Illuminated lens unit, steady, with LED or 7 W incandescent bulb Flashing Units with LED or 7 W incandescent bulb Units with Strobe Audible Sounder Units	-13 to +122 °F (-25 to +50 °C)
Electric Shock Protection conforming to IEC 536	Tube mounting Direct mounting on base unit	Class 1 Class 2
Degree of Protection	To IEC 60529 and NF C 20-010 To UL 50 and CSA 22.2 No. 94	IP 65 Type 1, 12, 13
Material	Illuminated lens unit Base unit and top cover Ring on lens and base Tube mounting Tulip	Polycarbonate ABS + Polycarbonate Polyamide Aluminum ABS + Polycarbonate

Electrical Characteristics

Rated Insulation Voltage (UL)	Conforming to IEC 60947-1	250 Vac
Consumption	LED unit Steady Incandescent bulb 7W Flashing Unit with strobe (on energization) Audible sounder units	24 Vac/Vdc: <60 mA 120-230 Vac: <20 mA 24 Vac/Vdc: <300 mA; 120-230 Vac: 65-35 mA 24 Vac or 24 Vdc <250 mA; 120-230 Vac < 30mA 24 Vdc: 0.3 Joules, 40 mA; 120 Vac: 0.6 Joules, 20mA; 230 Vac: 0.6 Joules, 11mA 24 Vdc, 12 mA; 120 Vac, 15 mA; 230 Vac, 15 mA
Rated Impulse withstand voltage	Conforming to IEC 60947-1	U imp = 4 kV
Bulb type	Illuminated units, steady or flashing	Bayonet type BA 15d; 5 W minimum power; 7 W maximum power
Illuminating Power	Strobe Units	0.3 Joules, 24 Vdc, 1.2 cd; 0.6 Joules, 120 Vac, 5.0 cd; 0.6 Joules, 230 Vac, 5.0 cd
Audible sounder units	Signal	At one meter: 75-85 dB
Terminal marking	Common Depending on type of units Ground	1 terminal marked -/N 1 to 5 terminals marked 1+/L to 5+/L Marked with grounding symbol
Cable size	Maximum wire size	2 x #16 AWG (1.5 mm ²) with cable end
Terminals	Torque requirement	Removable and captive screw terminals: 4.4 lb-in (0.5 Nm)
Ring tongue connectors	Burndy YAV14RL33	Wire: 20-14 AWG Studs: 4-6 Width: 0.25 in.
Frequency of Illuminated units	Strobe Units	0.7 Hz-2.0 Hz

Specific Characteristics of Protected LED Bulbs

Voltage limits	Nominal voltage	24 V: 19.2 to 30 Vdc; 21.6 to 24.6 Vac 120 V: 100 to 132 Vac 240 V: 200 to 264 Vac
Current consumption	Applicable to all colors	24 Vac/Vdc supply: 24 mA 120 Vac supply: 18 mA 240 Vac supply: 18 mA
Service life	At nominal voltage and at an ambient temperature of 77 °F (25 °C)	100,000 hours
Surge withstand	Conforming to IEC 61000-4-5	1 kV (differential)
Resistance to fast transients	Conforming to IEC 61000-4-4	2 kV
Resistance to electromagnetic fields	Conforming to IEC 61000-4-3	10 V/m
Resistance to electrostatic discharges	Conforming to IEC 61000-4-2	8/6 kV
Electromagnetic emission	Conforming to EN 55011	Class B



XVP Illuminated Indicating Banks Components

COMPONENTS

Base Units with Cover (for direct or tube mounting)



XVPC21

Description	Color	For use with Indicating Banks	Catalog Number
50 mm base unit	Black	50 mm diameter only	XVPC21
50 mm base unit	Off-white	50 mm diameter only	XVPC21W
50 mm base unit with ring-tongue compatible terminal		50 mm diameter only	XVPC21WR

Illuminated Lens Units (Steady or Flashing)



XVPC37

Description	Ring Color	Light Source and Voltage	Lens Color	Catalog Number
50 mm steady lens unit (See part numbers under "LEDs" on page 4 to select steady or flashing mode)	Black	Bulb (7 W max) not included 250 V max	Green Red Amber Blue Clear Yellow	XVPC33 XVPC34 XVPC35 XVPC36 XVPC37 XVPC38
	Off-white	Bulb (7 W max) not included 250 V max	Green Red Amber Blue Clear Yellow	XVPC33W XVPC34W XVPC35W XVPC36W XVPC37W XVPC38W

Illuminated Lens Units with Strobe



XVPC33



XVPC6B8



XVPC6G6



XVPC6M5

Description	Ring Color	Light Source and Voltage	Lens Color	Catalog Number
50 mm strobe lens unit	Black	Strobe 24 Vdc 0.3 Joule	Green Red Amber Blue Clear Yellow	XVPC6B3 XVPC6B4 XVPC6B5 XVPC6B6 XVPC6B7 XVPC6B8
		Strobe 120 Vac 0.6 Joule	Green Red Amber Blue Clear Yellow	XVPC6G3 XVPC6G4 XVPC6G5 XVPC6G6 XVPC6G7 XVPC6G8
		Strobe 230 Vac 0.6 Joule	Green Red Amber Blue Clear Yellow	XVPC6M3 XVPC6M4 XVPC6M5 XVPC6M6 XVPC6M7 XVPC6M8
	Off-white	Strobe 24 Vdc 0.3 Joule	Green Red Amber Blue Clear Yellow	XVPC6B3W XVPC6B4W XVPC6B5W XVPC6B6W XVPC6B7W XVPC6B8W
		Strobe 120 Vac 0.6 Joule	Green Red Amber Blue Clear Yellow	XVPC6G3W XVPC6G4W XVPC6G5W XVPC6G6W XVPC6G7W XVPC6G8W
		Strobe 230 Vac 0.6 Joule	Green Red Amber Blue Clear Yellow	XVPC6M3W XVPC6M4W XVPC6M5W XVPC6M6W XVPC6M7W XVPC6M8W



XVP Illuminated Indicating Banks Components



XVPC09B

Audible Sounder Units

Description	Ring Color	Supply Voltage	Catalog Number
50 mm sounder unit Ten tone selections, 75–85 dB at 1 m	Black	24 Vdc	XVPC09B
		120 Vac	XVPC09G
		230 Vac	XVPC09M
	Off-white	24 Vdc	XVPC09BW
		120 Vac	XVPC09GW
		230 Vac	XVPC09MW

LEDs



DL1BDB1



DL1BKB1

Description	Voltage	Color	Catalog Number
Steady-On LEDs Protected LED	24 Vac/Vdc	White	DL1BDB1
		Green	DL1BDB3
		Red	DL1BDB4
		Blue	DL1BDB6
		Yellow/Amber	DL1BDB8
	120 Vac	White	DL1BDG1
		Green	DL1BDG3
		Red	DL1BDG4
		Blue	DL1BDG6
	230 Vac	White	DL1BDM1
		Green	DL1BDM3
		Red	DL1BDM4
		Blue	DL1BDM6
		Yellow/Amber	DL1BDM8
Flashing LEDs Protected LED	24 Vac/Vdc	White	DL1BKB1
		Green	DL1BKB3
		Red	DL1BKB4
		Blue	DL1BKB6
		Yellow/Amber	DL1BKB8
	120 Vac	White	DL1BKG1
		Green	DL1BKG3
		Red	DL1BKG4
		Blue	DL1BKG6
	230 Vac	White	DL1BKM1
		Green	DL1BKM3
		Red	DL1BKM4
		Blue	DL1BKM6
		Yellow/Amber	DL1BKM8

NOTE: Protected LEDs provide additional circuit protection against overvoltage, overcurrent, and electrostatic discharge. See page 2.

Incandescent Bulbs



DL1BEJ

Description	Voltage	Catalog Number
Bayonet type BA 15d, 7 W	12 Vac/Vdc	DL1BEJ
	24 Vac/Vdc	DL1BEB
	48 Vac/Vdc	DL1BEE
	120 Vac/Vdc	DL1BEG
	230 Vac/Vdc	DL1BEM



ACCESSORIES

Description	Color	Characteristics	Catalog Number
Threaded tube with bracket	Silver	100 mm (4 in.)	XVPC02T
		250 mm (10 in.)	XVPC03T
		400 mm (16 in.)	XVPC04T
Tube with tulip base	Black	100 mm (4 in.)	XVPC02
		250 mm (10 in.)	XVPC03
		400 mm (16 in.)	XVPC04
	Off-white	100 mm (4 in.)	XVPC02W
		250 mm (10 in.)	XVPC03W
		400 mm (16 in.)	XVPC04W
Wall mounting bracket	Black	—	XVPC12
	Off-white	—	XVPC12W
Bulb mounting tool	—	—	XVPCX13



XVPC12



XVPC03T*



XVPC02*

* Does not include lens units

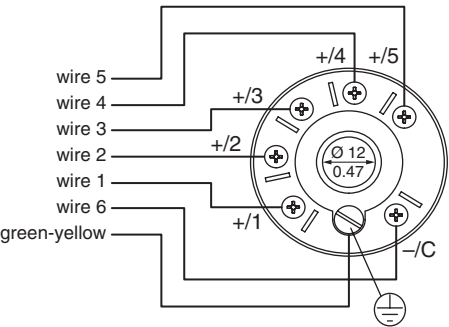


XVPC02W*

WIRING DIAGRAM

Cable Connections

Ø Supply line max.:
1.5 mm² (#16 AWG)



XVPC21
XVPC21W
captive
screw



XVPC21WR
removable
screw

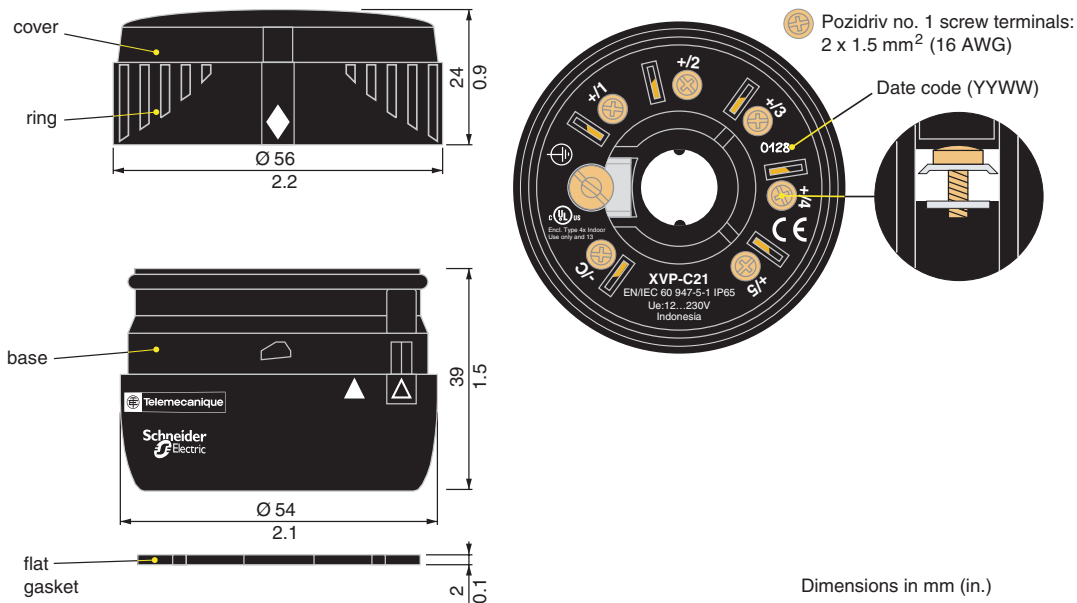


XVP Illuminated Indicating Banks

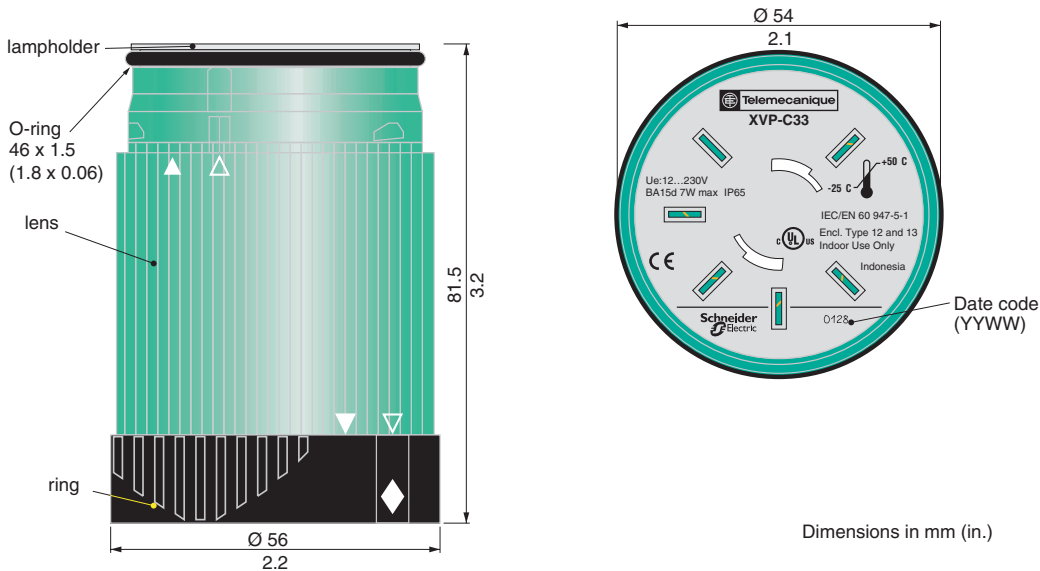
Dimensions

DIMENSIONS

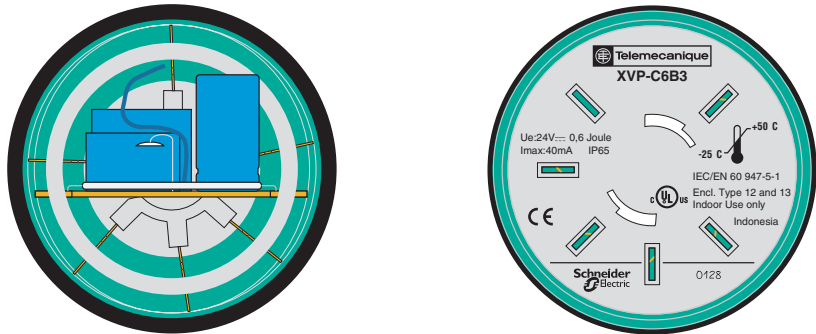
Bases



Steady Lights for BA15d Bulbs

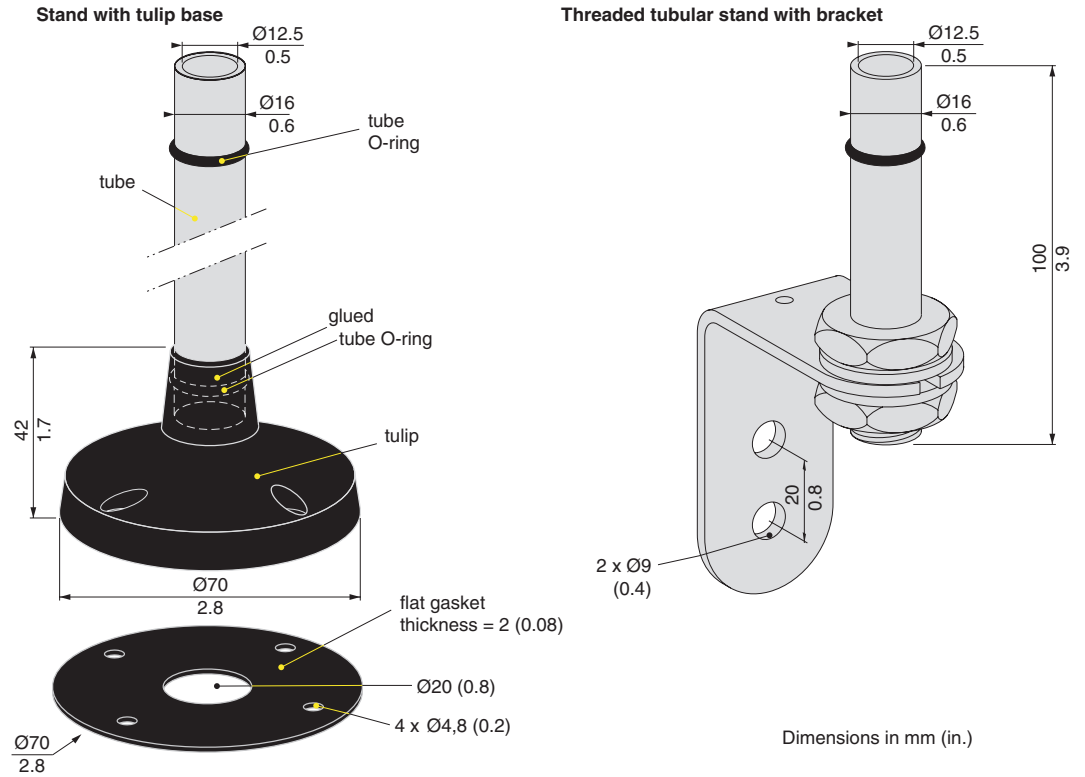


Strobes

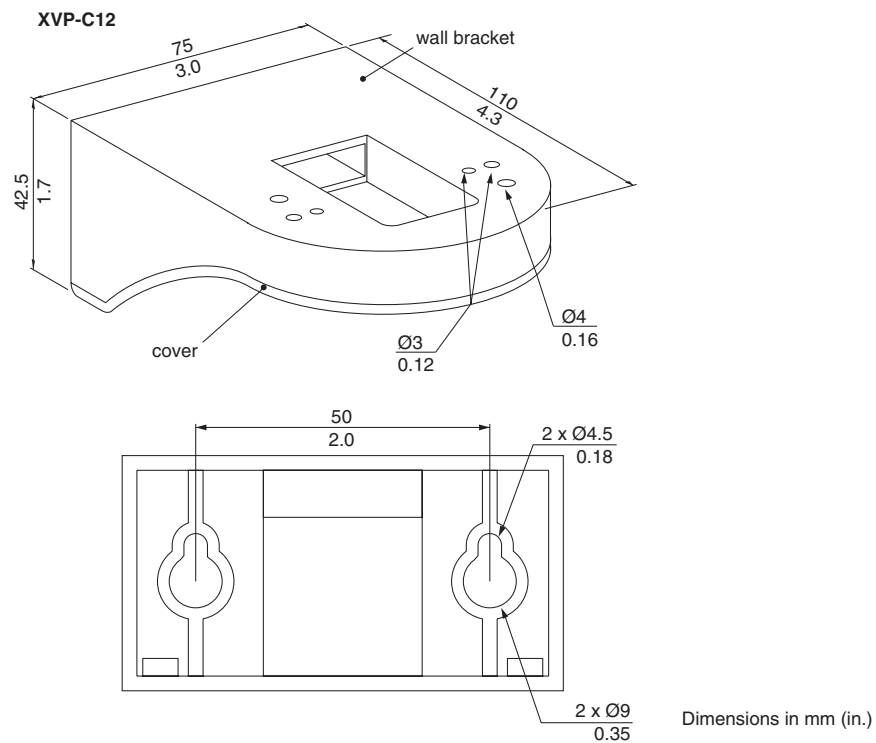


XVP Illuminated Indicating Banks Dimensions

Tube Stands

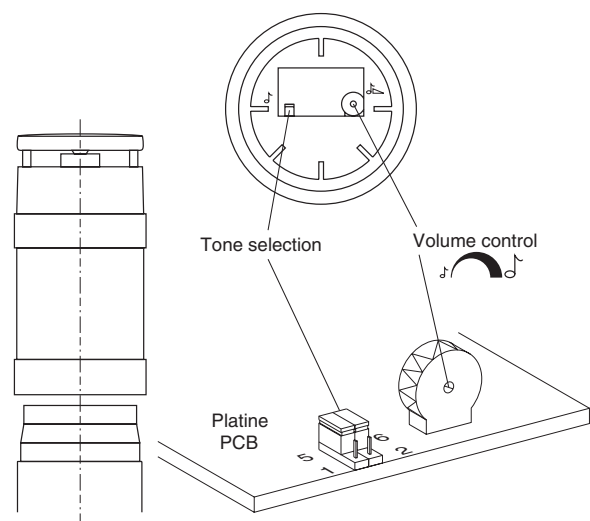
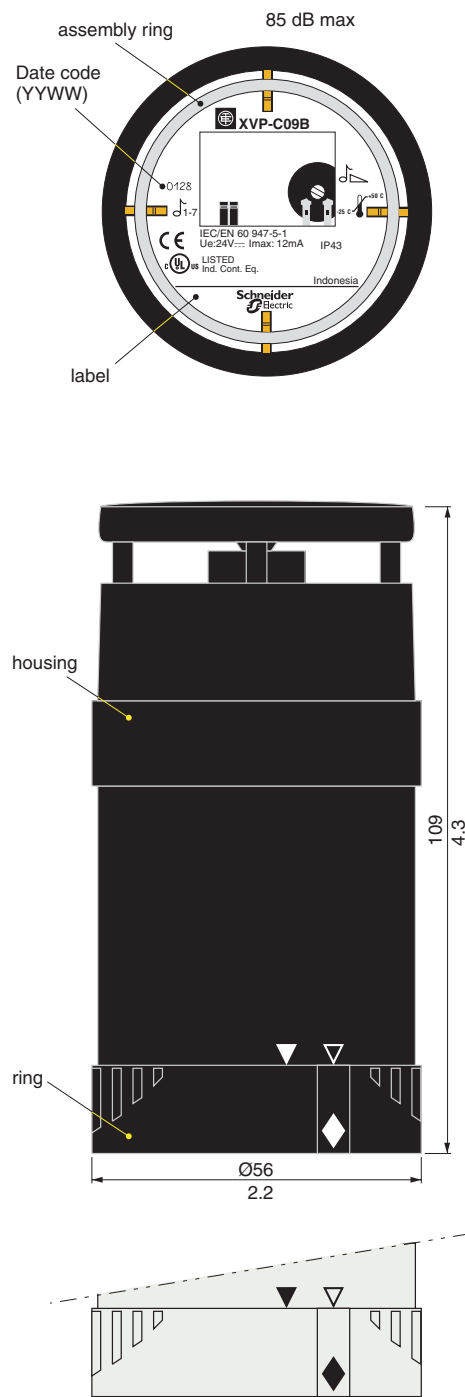


Wall Mounting Bracket



XVP Illuminated Indicating Banks
Dimensions

Audible Sounder Units



Tone No.	Tone Setting	Frequency Description	
1	5 6 1 2	Alternating 800 Hz / 1000 Hz at 0.25 s intervals	
2	5 6 1 2	Slow whoop 500 Hz / 1200 Hz at 0.3 Hz with 0.5 s gap—repeated	
3	5 6 1 2	Sawtooth 1200 Hz / 500 Hz at 1Hz	
4	5 6 1 2	Alternating 544 Hz for 100 ms / 440 Hz for 400 ms (NF S 32-001)	
5*	5 6 1 2	Continuous at 1000 Hz	
6	5 6 1 2	Simulated bell sound	
7	5 6 1 2	Sweeping 800 Hz / 1000 Hz at 7 Hz	
8	5 6 1 2	Sweeping 2400 Hz / 29000 Hz at 50Hz	
9	5 6 1 2	420 Hz repeating 0.625 s On, 0.625 s Off	
10	5 6 1 2	550/1200 Hz Sweeping 3.75 s On, 0.25 s Off (15 cycles/minute)	

* Factory Setting

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