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Push Buttons and Operator Interface
Specifier's Guide
Type XVA Indicating Banks and Beacons

File 9001



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The XVA indicating bank is an illuminated stackable modular system of signaling lights that can be used for indicating the status of a machine and verifying that status from a distance and in all directions (360°). The modular system of lenses allows the unit to be constructed from any combination of 1 to 5 lenses. Constant, flashing and strobe units are available.

Examples: Indicates machine shutdown, shortage of materials, paging of supervisor or maintenance personnel, hazardous or dangerous conditions to name a few. It is a perfect solution for status indication on factory floors utilizing JIT methods.

Machines, instrument panels and work stations equipped with the XVA allow personnel to react more quickly to any situation or incident.

Some industries that currently use or could use XVAs:

Automotives	Canning
OEMs	Test Equipment
Electronics	Computer Industry
Garment	Food Processing
Pharmaceuticals	Robotics
Publishing	Semiconductor
Textiles	Machine Tool
Agriculture	

Typical applications for the XVA include:

Conveyor Systems	Industrial Baking Ovens
Machine Tools	Automated Paint Booths
Printing Presses	Automated Test Equipment
Retro-fit	Just-In-Time Manufacturing
Assembly Lines	Automated Manufacturing Lines
Textile Looms	Assembly Work Stations

Specifications

- One complete single stage beacon or components consisting of 1 to 5 lenses forming an indicating bank.
- Five colors to select from: green, red, orange, blue and clear.
- Signal can be continuous, flashing or strobe.
- Visible from a distance and on a 360° radius.
- Shock and vibration resistant.
- One common base for 1-5 lenses, only one cable entry required.
- Aluminum tubes of 4 in. (100 mm), 16 in. (400 mm), and 31.5 in. (800 mm) lengths for extension of column.
- Audible signal available

Protective treatment	Standard version, treatment TC “all climates”
Ambient temperature	Storage: -40 °F to +158 °F (-40 °C to +70 °C) Operating: -13 °F to +158 °F (-25 °C to +70 °C)
Degree of protection	Approval per UL508. Meets NEMA / UL Type 1 and 12 protection, IEC Type IP54
Material	Cover and lenses: polycarbonate Base: Polyamide Tube: Anodized aluminum Gasket: Neoprene

Limited Availability
For replacement parts only
For new applications, use
XVB (page 223 - 232)

Mounting

- Two screws affix base when units are direct mounted or four screws used for tube and tulip mounted.
- The tube and base of column mount directly on the tulip.
- All wiring done into saddle clamp screws in the base. See page 347 for wiring diagram.
- Lenses stack on one another by use of a captive screw through the lens.

Specifications

Rated insulation voltage	**250 V**	
Approvals	UL	File E164353 CCN NKCR
	CSA	File LR 44087 Class 3211 03 and Class 3211 07
	CE	Marking
Lamps	5 W minimum, 7W maximum, length: 1.61” (41 mm) for DL1BA●●● 1.93” (49 mm) for DL1BL●●●	
Terminal marking	Terminal marked “O” common to 5 elements and ground	
Wiring	Captive terminal with screw saddle clamp, minimum capacity:2 size #18 AWG series maximum capacity: 2 size #12 AWG series	

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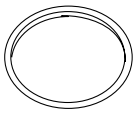
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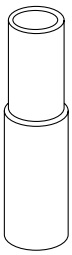
XVAL471
(One circuit only)



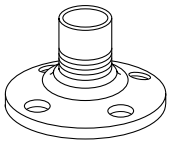
(1) XVAC211
Base + cover



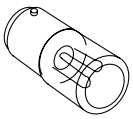
XVAC09



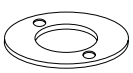
XVAC02, 027
XVAC03, 037
XVAC04, 047



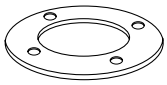
XVAC01
XVAC11



DL1B●●●●



XVACO5



XVAC06



XVAC12

Indicating Beacons

Description	Signal	Color	Catalog Number
Complete assembly comprising: 1 cover 1 illuminated lens unit 1 base	Steady light lamp type BA15d (not supplied) ð 240 Vac/dc	Green	**XVAL331**
		Red	**XVAL341**
		Orange	**XVAL351**
		Blue	**XVAL361**
		Clear	**XVAL371**
	Standard flashing light lamp type BA15d (not supplied) 24 V - 240 Vac only (± 10%)	Green	**XVAL431**
		Red	**XVAL441**
		Orange	**XVAL451**
		Blue	**XVAL461**
		Clear	**XVAL471**
	Strobe light (integral discharge tube) 24 Vdc, 260 mA max.	Green	**XVAL73C024**
		Red	**XVAL74C024**
		Orange	**XVAL75C024**
		Blue	**XVAL76C024**
		Clear	**XVAL77C024**
	Strobe light (integral discharge tube) 110-120 Vac, 110 mA 50-60 Hz	Green	**XVAL73B120**
		Red	**XVAL74B120**
		Orange	**XVAL75B120**
		Blue	**XVAL76B120**
		Clear	**XVAL77B120**
	Strobe light (integral discharge tube) 220 Vac (± 10%), 80 mA 50-60 Hz	Green	**XVAL73A220**
		Red	**XVAL74A220**
		Orange	**XVAL75A220**
		Blue	**XVAL76A220**
		Clear	**XVAL77A220**

Accessories and spare parts for indicating beacons and banks

Type			Size/ Type Voltage	Catalog Number
Accessories for tube mounting	4" metal tubes		100 mm	**XVAC02**
	16" metal tubes		400 mm	**XVAC03**
	31.5" metal tubes		800 mm	**XVAC04**
	4" black anodized metal tubes		100 mm	**XVAC027**
	16" black anodized metal tubes		400 mm	**XVAC037**
	31.5" black anodized metal tubes		800 mm	**XVAC047**
	1/2" NPT conduit adaptor		Metallic	**XVAC00**
	Tube support/fixing plate - Black Anodized		Plastic	**XVAC01**
	Tube support/fixing plate - Black Anodized		Metallic	**XVAC11**
	Wall mounting bracket		Metallic	**XVAC12**
Gaskets for use at point of mounting	For direct base mounting			**XVAC05**
	For tube support/mounting plate			**XVAC06**
	For between lenses, base, cover - replacement			**XVAC09**
			AC or DC	
Lamps type BA15d	Length 49 mm (BL) 41 mm (BA)	2.5 W	12 V	**DL1BA012**
		4 W	24 V	**DL1BA024**
		6.5 W	24 V	**DL1BL024**
		4 W	48 V	**DL1BA048**
		7 W	110 V	**DL1BA110**
		7 W	120 V	**DL1BL120**
		5 W	160 V	**DL1BA160**
		6 W	260 V	**DL1BA260**

For LED lamp options see page 228 (XVB).

Limited Availability
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For new applications see XVB (page 223)

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(Components for variable composition)

Description	Signal	Color	Catalog Number
Lens unit sub assembly	Steady light lamp type BA15d (not supplied) ≤ 240 Vac/dc	Green	**XVAC331**
		Red	**XVAC341**
		Orange	**XVAC351**
		Blue	**XVAC361**
		Clear	**XVAC371**
	Standard flashing light lamp type BA15d (not supplied) 24 V to 240 Vac only (± 10%)	Green	**XVAC431**
		Red	**XVAC441**
		Orange	**XVAC451**
		Blue	**XVAC461**
		Clear	**XVAC471**
Lens unit sub assembly with strobe light (only 1 strobe may be used on each bank and must be mounted in the top position).	Strobe light (integral discharge tube) 24 Vdc, 260 mA max. common negative (for common positive, take off digit 1 at the end of the reference. ▲	Green	**XVAC73C0241**
		Red	**XVAC74C0241**
		Orange	**XVAC75C0241**
		Blue	**XVAC76C0241**
		Clear	**XVAC77C0241**
	Strobe light (integral discharge tube) 110-120 Vac, 110 mA, 50-60 Hz	Green	**XVAC73B120**
		Red	**XVAC74B120**
		Orange	**XVAC75B120**
		Blue	**XVAC76B120**
		Clear	**XVAC77B120**
	Strobe light (integral discharge tube) 220 Vac (± 10%), 80 mA 50-60 Hz	Green	**XVAC73A220**
		Red	**XVAC74A220**
		Orange	**XVAC75A220**
		Blue	**XVAC76A220**
		Clear	**XVAC77A220**

Audible sounder sub assembly (90 db. at 1 meter, 3KHz) (for common positive remove digit 1 at the end of the reference **Example: XVAC91**)	Continuous tone	12 to 48Vdc, 13 mA max. common negative	**XVAC911**
		110 to 220 Vac, 3.3 mA	**XVAC93**
	Intermittent tone	12 to 48 Vdc 13 mA max. common negative	**XVAC921**
		110 to 220 Vac, 3.1 mA	**XVAC94**
Cover and one to five unit base			**XVAC211**
Cover only			**XVAC081**
Base only			**XVAC07**

Indicating banks are supplied as sub-assemblies, individually referenced and boxed, for assembly by the user. **Maximum number of units:** 5, including 1 (max.) top mounted strobe.

See page 345 for Accessories and Spare Parts.

▲ Example: XVAC73C024

Pre-Wired Bases (1)

Wire Gauge	Standard Wire (2)
#14 AWG (3)	XVAC211S5
#16 AWG	XVAC211S1
#18 AWG	XVAC211S10
#22 AWG	XVAC211S11

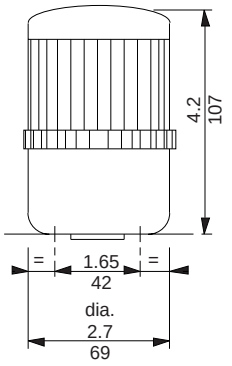
(1) Common and ground wires are provided with all of the above options.
(2) **Standard wire** provides 2 feet of wire as standard length.
(3) #14 AWG wire cannot be used with tube support/fixing plates (XVAC01 or XVAC11)and wall mounting bracket (XVAC12).

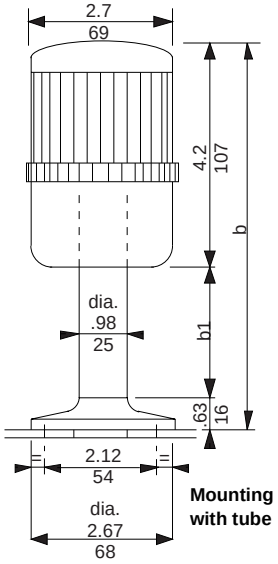
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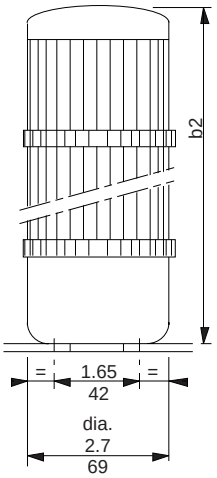
Indicating beacon, 1 stage

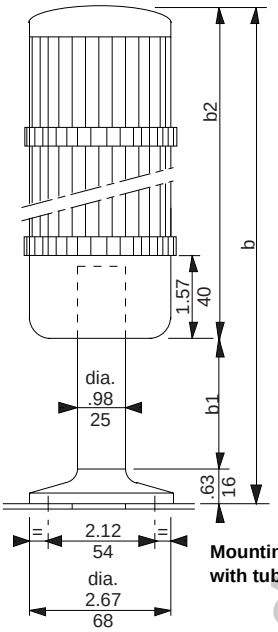




Mounting with tube

Indicating bank
Column 1 to 5 stages





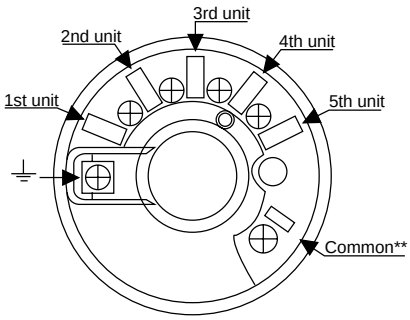
Mounting with tube

Tube length

b		b1			
in.	**mm**	**in.**	**mm**	**in.**	**mm**
3.9	100	7.3	186	2.5	63
15.7	400	19.1	486	14.3	363
31.5	800	34.9	886	30.0	763

Note: For strobe unit add 3.19" (81mm) to total stack height.

Cabling
(base viewed from above)

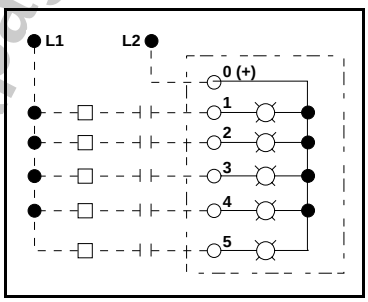


** "—" pole to "common" terminal ----

No. of lenses	Tube length		b		b1		b2	
	in.	**mm**	**in.**	**mm**	**in.**	**mm**	**in.**	**mm**
1	3.9	100	7.3	186	2.5	63	4.2	107
	15.7	400	19.1	486	14.3	363	4.2	107
	31.5	800	34.9	886	30.0	763	4.2	107
2	3.9	100	9.25	238	2.5	63	6.25	159
	15.7	400	21.2	538	14.3	363	6.25	159
	31.5	800	36.9	938	30.0	763	6.25	159
3	3.9	100	11.4	290	2.5	63	8.3	211
	15.7	400	23.2	590	14.3	363	8.3	211
	31.5	800	39.0	990	30.0	763	8.3	211
4	3.9	100	13.4	342	2.5	63	10.3	263
	15.7	400	25.3	642	14.3	363	10.3	263
	31.5	800	41.0	1042	30.0	763	10.3	263
5	3.9	100	15.5	394	2.5	63	12.4	315
	15.7	400	27.3	694	14.3	363	12.4	315
	31.5	800	43.0	1094	30.0	763	12.4	315

Note: For strobe unit add 3.19" (81 mm) to total stack height.

Wiring Diagram

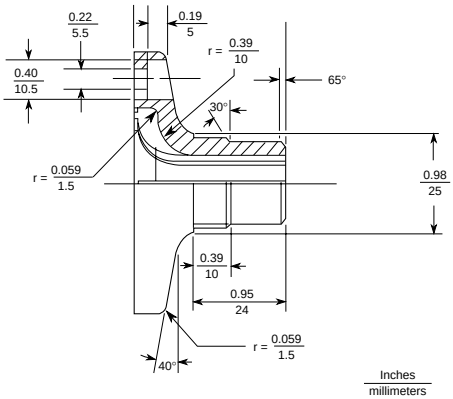


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XVB (page 2.2:7)21

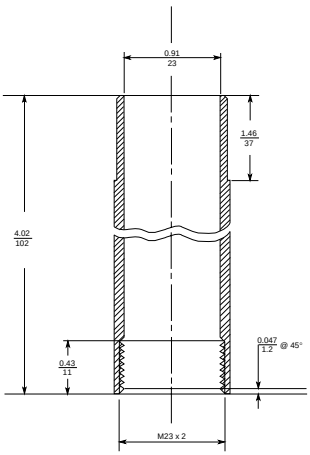
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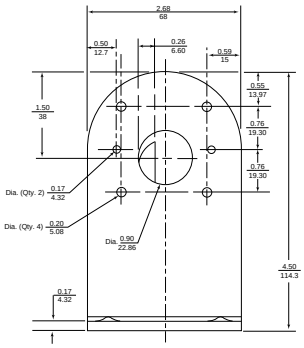
Baseplate 1



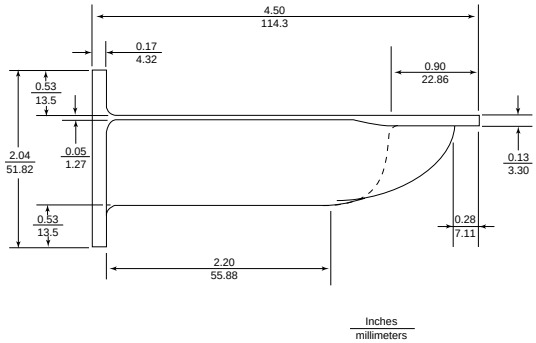
Lite Tube



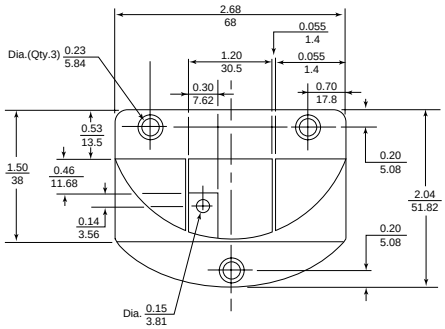
Wall Mount Front



Wall Mount Side

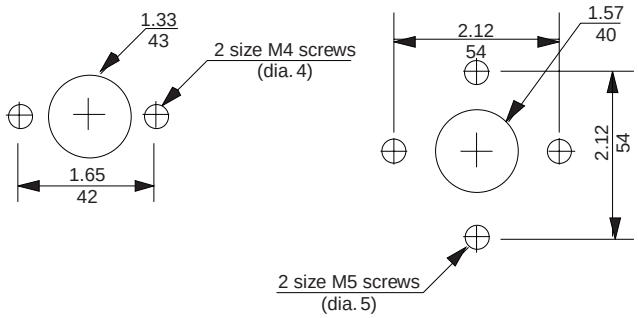


Wall Mount Bottom



Tubing and Thread Dimensions
Wall Mounting Bracket
To be Drawn

Drilling and tapping of support



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