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Tower Lights and Beacons Selection Guide (1 of 2)

Family	XVB L	XVB C
		
Type of Product	Beacon	Tower Light
Diameter	70mm	70mm
Features	Product for Customer Configuration	Product for Customer Configuration
Approvals	UL File E164353 CCN NKCR CSA File LR 44087 Class 3211 03	UL File E164353 CCN NKCR CSA File LR 44087 Class 3211 03
Conforming to Standards	CE Marked IEC/EN 60947-5-1 UL 508 CSA 22.2 No 14	CE Marked IEC/EN 60947-5-1 UL 508 CSA 22.2 No 14
Degree of Protection	IP65	IP65
Operating Temperature F° (C°)	-13 to122 (-25 to 50)	-13 to122 (-25 to 50)
Storage Temperature F° (C°)	-40 to 158 (-40 to 70)	-40 to 158 (-40 to 70)
Light Source	LED / Incandescent	LED / Incandescent
Electrical Consumption		
LED Steady	24 Vac/dc: < 30 mA 120–230 Vac: < 30 mA	24 Vac/dc: < 30 mA 120–230 Vac: < 30 mA
LED Flashing with Buzzer	24 Vac/dc: < 40 mA 120–230 Vac: < 15mA 1 Hz (1 flash per second)	24 Vac/dc: < 40 mA 120–230 Vac: < 15mA 1 Hz (1 flash per second)
Strobe (Energized)	24 Vdc: 5 Joules unit < 430 mA; 10 J unit: < 850 mA 120 Vac: 5 Joules unit: < 130 mA; 10 J unit: < 260 mA 230 Vac: 5 Joules unit: < 105 mA; 10 J unit: < 210 mA 1 Hz (1 flash per second)	24 Vdc: 5 Joules unit < 430 mA; 10 J unit: < 850 mA 120 Vac: 5 Joules unit: < 130 mA; 10 J unit: < 260 mA 230 Vac: 5 Joules unit: < 105 mA; 10 J unit: < 210 mA 1 Hz (1 flash per second)
Audible Sounders	12–48 Vac/dc: < 20 mA 120–230 Vac: < 50 mA 90 decibels at 1 meter	12–48 Vac/dc: < 20 mA 120–230 Vac: < 50 mA 90 decibels at 1 meter
Connection Type	Screw Clamp	Screw Clamp
Cable Size	1 x 16 AWG (1.5 mm²) With Cable End	1 x 16 AWG (1.5 mm²) With Cable End
Digest Location	XVB 70 mm Beacons, page 19-115	XVB 70 mm Components, page 19-116

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Tower Lights and Beacons Selection Guide (2 of 2)

Family	XVC 4	XVC 6	XVC 1	XVU	XVGU	XVR	XVS
							
Type of Product	*Tower Light	*Tower Light	*Tower Light	**Tower Light	**Tower Light	***Rotating Mirror Beacon	***Siren and Electronic Alarm
Diameter	40 mm	60 mm	100 mm	60mm	60mm	84/106/120/130 mm	—
Features	All devices are pre-assembled and pre-wired			Programmable LED module with multiple colors, flashing, blinking, and rotating	Programmable with Magelis through USB	All devices are pre-assembled and pre-wired. XVR12•••S includes buzzer: 70 to 90 decibels	Adjustable Tones XVS14BMW, 0 to 105 decibels, 43 tones XVS72BM••, 0 to 90 decibels, 16 tones
Approvals	UL Recognized E164353 CNN NKCR	UL Recognized E164353 CNN NKCR	UL Recognized E164353 CNN NKCR	UL file: E164353 CCN : NKCR	UL File E164353 CCN NKCR	UL Recognized E164353 CNN NKCR	UL Recognized E164353 CNN UCST
	CSA LR44087 Class 3211-03	CSA LR44087 Class 3211-03	CSA LR44087 Class 3211-03	CSA File : 225619 CLASS : 3211-07	cUL File: E164353 CCN: NKCR7	CSA LR44087 Class 3211-03	CSA LR44087 Class 3211-03
Conforming to Standards	CE Marked	CE Marked	CE Marked	CE Marked	CE Marked	CE Marked	CE Marked
	EN61000-6-2	EN61000-6-2	EN61000-6-2	EN 60947-1	EN 61000-6-2	EN61000-6-2	—
	EN61000-6-3	EN61000-6-3	EN61000-6-3	EN 60947-5-1		EN61000-6-4	—
	—	EN61000-6-4	EN61000-6-4		EN 61000-6-2	—	—
	UL 508	UL 508	UL 508	UL508	UL508	UL 508	UL 508
	CSA 22.2 No. 14	CSA 22.2 No. 14	CSA 22.2 No. 14	CSA C22.2 No.14	CSA C22.2 No.14	CSA 22.2 No. 14	CSA 22.2 No. 14
Degree of Protection	IP54	IP54	IP54	IP65	IP42	IP23 / IP65 / IP66	IP53 / IP54
Operating Temperature F° (C°)	-13 to122 (-25 to 50)	-13 to122 (-25 to 50)	-13 to122 (-25 to 50)	-13 to 122 (-25 to 50)	32 to 131 (0 to 55)	-14 to 122 (-10 to 50)	-4 to 122 (-20 to 50)
Storage Temperature F° (C°)	-40 to 158 (-40 to 70)	-40 to 158 (-40 to 70)	-40 to 158 (-40 to 70)	-13 to 150 (-25 to 65)	-31 to 158 (-35 to 70)	-31 to 158 (-35 to 70)	-31 to 158 (-35 to 70)
Light Source	LED	LED	LED	LED	LED	LED	—
Electrical Consumption				Body unit ≤ 400mA	400mA		
LED Steady	24 V: 1 unit = 40mA; 2 unit = 80mA; 3 unit = 120mA 4 unit = 160mA; 5 unit = 200mA		24 V: 1 unit = 100mA; 2 unit = 200mA; 3 unit = 300mA 4 unit = 400mA; 5 unit = 500mA	LED Units ≤ 50 mA	Programmable with Magelis through USB	XVR08, XVR10, XVR12, and XVR13 (without buzzer) 12 Vac/dc: 360mA 24 Vac/dc: 180mA	—
LED Flashing ** with Buzzer	**24 V: 1 unit = 90 mA; 2 unit = 130 mA; 3 unit = 170 mA 4 unit = 210 mA; 5 unit = 250 mA 0.7 to 3 Hz (1 flash per 0.7 to 3 sec)		24 V: 1 unit = 150mA; 2 unit = 250mA; 3 unit = 350mA 4 unit = 450mA; 5 unit = 550mA 3 to 3.5 Hz (1 flash per 3 to 3.5 sec)	Buzzer ≤ 70 mA Flasher and multi-color ≤ 70 mA	Programmable with Magelis through USB	XVR12 with buzzer: 12 Vac/dc: 400 mA 24 Vac/dc: 230 mA 3 Hz (1 flash per 3 sec)	—
Strobe (Energized)	—	—	—	—	—	—	—
Audible Sounders	*70 to 85 decibels at 1 meter*	70 to 85 decibels at 1 meter	60 to 85 decibels at 1 meter	—	—	—	XVS14BMW 12 Vdc: 350mA 24 Vdc: 400 mA 105 decibels at 1 m
	—	—	—	—	—	—	XVS72BM 12 Vdc: 280 mA 24 Vdc: 190 mA 90 decibels at 1 m
Connection Type	Pre-Wired, Color-Coded Wires **cable length:** 600mm XVC4•• 900mm XVC4••K 500mm XVC4••5S	Pre-Wired, Color-Coded Wires **cable length:** 600mm XVC6•• 850mm XVC6••K 550mm XVC6••5S 850mm XVC6••5SK	Pre-Wired, Color-Coded Wires **cable length:** 500mm XVC1••K 500mm XVC1••SK 550mm XVC6••5S 850mm XVC6••5SK	Screw Clamp	USB power cable: - 300 mm/ 11.81 in. for tube mounting - 400 mm/15.75 in. for direct mounting	Pre-Wired cable length: 500mm XVR08••• 400mm XVR10••• 400mm XVR12••• 400mm XVR13•••	XVS14BMW Pre-Wired, Color-Coded Wires **cable length:** 500mm XVS14
							XVS72BM•• **Not** Pre-Wired
Cable Size	22 AWG (0.33 mm²)	22 AWG (0.33 mm²)	22 AWG (0.33 mm²)	22 - 16 AWG	—	18 AWG (0.75 mm²)	—
Digest Location	XVC, page 19-118	XVC, page 19-118	XVC, page 19-118	XVU, page	XVGU, page 19-124	XVR, page 19-125	XVS, page 19-126
	For Tower Lights catalog numbers: ●○ first dot denotes voltage selection ○● second dot denotes color selection						

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XVBL3•



XVBL4B•



XVBL6B•
5 Joule



XVBL8B•
10 Joule

XVB 70 mm Diameter Beacons

Table 19.355: XVB Beacons with Steady Light

Description	Light Source and Voltage	Color	Catalog Number
Complete unit, includes: 1 lens unit 1 base unit (direct or tube mounting)	Bulb (10 W max) not included 250 V max (must order bulb separately *[1]*)	Green	XVBL33
		Red	XVBL34
		Amber	XVBL35
		Blue	XVBL36
		Clear	XVBL37
		Yellow	XVBL38

Table 19.356: XVB Beacons with Flashing Light (one flash per second)

Description	Light Source and Voltage	Color	Catalog Number
Complete unit, includes: 1 lens unit 1 base unit (direct or tube mounting)	Bulb (10 W max) not included 24 Vac 24–48 Vdc (must order bulb separately *[1]*)	Green	XVBL4B3
		Red	XVBL4B4
		Amber	XVBL4B5
		Blue	XVBL4B6
		Clear	XVBL4B7
		Yellow	XVBL4B8
	Bulb (10 W max) not included 48–230 Vac (must order bulb separately *[1]*)	Green	XVBL4M3
		Red	XVBL4M4
		Amber	XVBL4M5
		Blue	XVBL4M6
		Clear	XVBL4M7
		Yellow	XVBL4M8

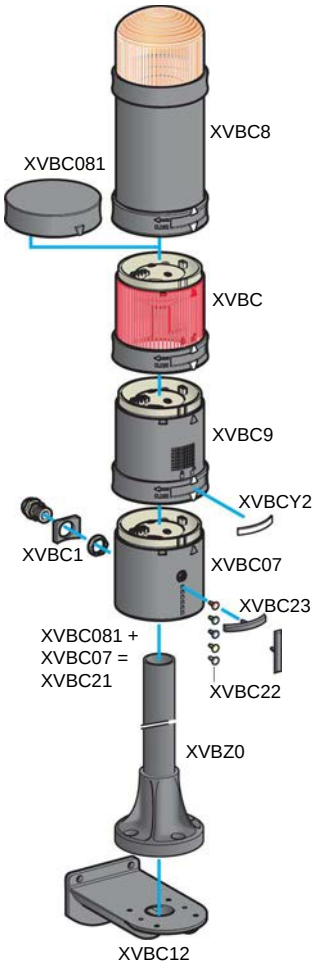
Table 19.357: XVB Beacons with 10 Joule Strobe (2.75 in./70 mm diameter) *[2]*

Description	Light Source and Voltage	Color	Catalog Number *[3]*
Complete unit, includes: 1 lens unit 1 base unit (direct or tube mounting)	Strobe 24 Vac/Vdc (includes bulb)	Green	XVBL8B3
		Red	XVBL8B4
		Amber	XVBL8B5
		Blue	XVBL8B6
		Clear	XVBL8B7
		Yellow	XVBL8B8
	Strobe 120 Vac (includes bulb)	Green	XVBL8G3
		Red	XVBL8G4
		Amber	XVBL8G5
		Blue	XVBL8G6
		Clear	XVBL8G7
		Yellow	XVBL8G8

NOTE: There are no replacement lenses for strobes.

[1] For bulbs, see XVB Accessories, page 19-117.
[2] **Important:** Discharge tube elements are not suitable for continuous-operation signaling due to temperature rise caused by the discharge tube.
[3] For 5 Joule units, specify XVBL6••, instead of XVBL8••.

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XVB 70 mm Components

Table 19.358: XVB Lens Units for Steady Light

Description	Light Source and Voltage	Color	Catalog Number
Illuminated lens unit	Bulb (10 W max) not included 250 Vac/Vdc max (must order bulb separately *[4]*)	Green	XVBC33
		Red	XVBC34
		Orange	XVBC35
		Blue	XVBC36
		Clear	XVBC37
		Yellow	XVBC38

Table 19.359: XVB Lens Unit for Flashing Light

Description	Light Source and Voltage	Color	Catalog Number
Illuminated lens unit	Bulb (10 W max) not included 24 Vac 24–48 Vdc (must order bulb separately *[4]*)	Green	XVBC4B3
		Red	XVBC4B4
		Orange	XVBC4B5
		Blue	XVBC4B6
		Clear	XVBC4B7
		Yellow	XVBC4B8
	Bulb (10 W max) not included 48–230 Vac (must order bulb separately *[4]*)	Green	XVBC4M3
		Red	XVBC4M4
		Orange	XVBC4M5
		Blue	XVBC4M6
		Clear	XVBC4M7
		Yellow	XVBC4M8

NOTE: There are no replacement lenses units for the XVBC8•• strobes.

Table 19.360: XVB Lens Units with 10 Joule Strobe

Description	Light Source and Voltage	Color	Catalog Number *[5]*
Lens unti with integral 10 Joule strobe	Strobe 24 Vac/Vdc (includes bulb)	Green	XVBC8B3
		Red	XVBC8B4
		Orange	XVBC8B5
		Blue	XVBC8B6
		Clear	XVBC8B7
		Yellow	XVBC8B8
	Strobe 120 Vac (includes bulb)	Green	XVBC8G3
		Red	XVBC8G4
		Orange	XVBC8G5
		Blue	XVBC8G6
		Clear	XVBC8G7
		Yellow	XVBC8G8

Table 19.361: Audible Sounder Units

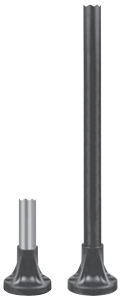
Description	Supply Voltage	Catalog Number
Sounder unit 90 dB at 1 m	12–48 Vac/Vdc	XVBC9B
Adjustable from 75–90 dB Continuous or intermittent modes	120–230 Vac	XVBC9M

Table 19.362: Base Units + Cover

Description	Catalog Number
Base unit + cover for direct or tube mounting, bottom or side cable entry (includes gasket)	XVBC21

[4] For bulbs, see XVB Accessories, page 19-117.
[5] For 5 Joule units, specify XVBC6••, instead of XVBC8••

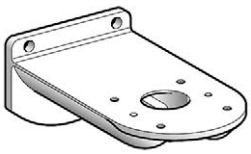
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XVBZ0•



XVBC020



XVBC12

XVB 70 mm Accessories

Table 19.363: XVB Accessories

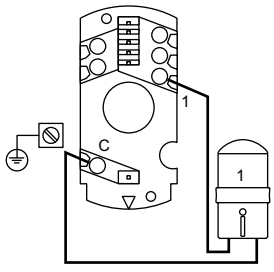
Description	Characteristics		Catalog Number	
	in.	mm		
Black tube with integral black plastic mounting base (includes gasket)	4.72	120	XVBZ02	XVBZ02A *[6]*
	15.75	400	XVBZ03	XVBZ03A *[6]*
	31.50	800	XVBZ04	XVBZ04A *[6]*
Support tube concealment cover	3.94	100	XVBC020	
	15.75	400	XVBC030	
	31.50	800	XVBC040	
Wall mount bracket (metal)	For direct mounting on base unit or with tulip XVBC11 + tube XVBC0•		XVBC12	
Incandescent bulbs bayonet type BA 15d, 10 Watts	12 Vac/Vdc		DL1BLJ	
	24 Vac/Vdc		DL1BLB	
	48 Vac/Vdc		DL1BLE	
	120 Vac/Vdc		DL1BLG	
	230 Vac/Vdc		DL1BLM	
Incandescent bulbs bayonet type BA 15d, 7 Watts	12 Vac/Vdc		DL1BEJ	
	24 Vac/Vdc		DL1BEB	
	48 Vac/Vdc		DL1BEE	
	120 Vac/Vdc		DL1BEG	
	230 Vac/Vdc		DL1BEM	
Steady-On LED bulbs bayonet type BA 15d (sold as single) *[7]*	24 Vac/Vdc	White	DL1BDB1	
		Green	DL1BDB3	
		Red	DL1BDB4	
		Blue	DL1BDB6	
		Yellow	DL1BDB8	
		Amber	DL1BDB5	
	120 Vac	White	DL1BDG1	
		Green	DL1BDG3	
		Red	DL1BDG4	
		Blue	DL1BDG6	
		Yellow	DL1BDG8	
		Amber	DL1BDG5	
Flashing LED bulbs	24 Vac/Vdc	White	DL1BKB1	
		Green	DL1BKB3	
		Red	DL1BKB4	
		Amber	DL1BKB5	
		Blue	DL1BKB6	
		Yellow	DL1BKB8	
	120 Vac	Green	DL1BKG3	
		Red	DL1BKG4	
		Amber	DL1BKG5	
		Blue	DL1BKG6	
		Yellow	DL1BKG8	
Adapter for side entry through base unit	With CM12 (p. 13.5) cable gland, for cable size of 0.4 to 0.55 in. (10 to 14 mm) diameter		XVBC14	
Conduit adapter	1/2 in. NPT (for customer supplied tubing)		XVBC00	

Table 19.364: XVB Markers and Legend Holders

Description	Characteristics	Catalog Number
Set of colored markers	6 colors	XVBC22
Set of 5 legend holders	Identification of stacked units on base	XVBC23

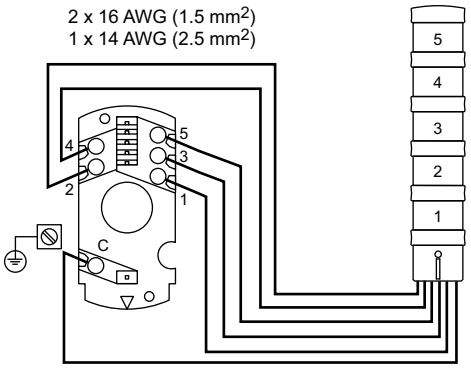
Wiring Diagrams, Base Units

Screw terminals
Torque to 4.4 in-lb (0.5 N•m)



XVBL

2 x 16 AWG (1.5 mm^2)
1 x 14 AWG (2.5 mm^2)



XVBC

[6] Aluminum tube.
[7] For 240 Vac, replace the B or G in the catalog number with M—for example, DL1BD**M**1. For flashing LEDs, refer to catalog 9001CT0001.

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