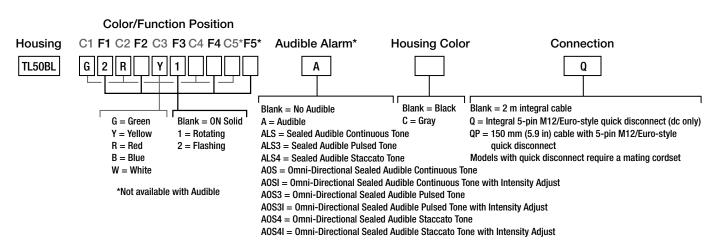


Datasheet

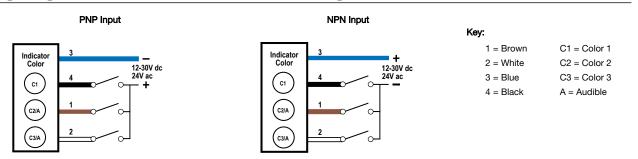
Compact Beacon Tower Light

			 Rugged, cost-effective, and easy-to-install multi-segment indicators
		itandard Audible	 Illuminated segments provide easy-to-see operator guidance and indication of equipment status
	3	allualu Auuble	Displays up to 5 colors
			 Steady on, flashing, and rotating models available
	s s	ealed Audible	 Audible models available with standard, sealed, or omni-directional audible element
	Comment 2		Available in black or light gray housing
			 Continuous, pulsed, and staccato tones available
		Omni-Directional Sealed Audible	 12 V dc to 30 V dc or 24 V ac operation
Standard	3		No assembly required

Models



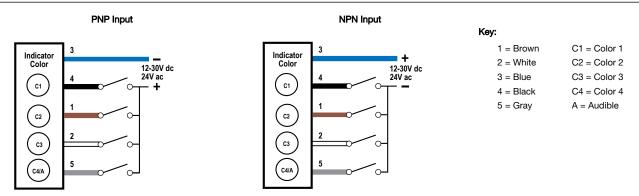
Wiring Diagrams — 4-Pin Models with 1 to 3 Segments



Pins 1 and 2 could activate the corresponding color or the audible function, if available.

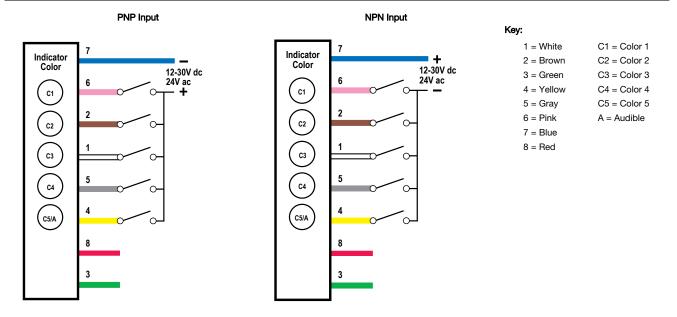


Wiring Diagrams - 5-Pin Models with 4 Segments



Pin 5 could activate the corresponding color or the audible function, if available.

Wiring Diagrams - 8-Pin Models with 5 Segments



Pin 4 could activate the corresponding color or the audible function, if available. Pins 3 and 8 are not used.

Specifications

Supply Voltage and Current

12 V dc to 30 V dc; or 24 V ac (± 3 V) at 50 Hz to 60 Hz

- Indicators-maximum current per LÉD color:
 - 125 mA at 12 V dc •
 - 60 mA at 30 V dc

75 mA at 24 V ac Standard Audible Alarm: 25 mA maximum current Sealed Audible Alarm: 35 mA maximum current Omni-Directional Sealed Audible Alarm: 45 mA maximum current Use only with a suitable Class 2 power supply or transformer

Supply Protection Circuitry

Protected against transient voltages

Input Response Time

Indicator On/Off: 1 millisecond maximum

Audible Alarm

Standard Audible Alarm: 2.7 kHz ± 500 Hz oscillation frequency; maximum intensity 92 dB at 1 m (3.3 ft) (typical) Sealed Audible Alarm: 2.9 kHz ± 250 Hz oscillation frequency; maximum

Orni-Directional Sealed Audible Alarm: 2.1 kHz ± 250 Hz oscillation frequency; maximum intensity 99 dB at 1 m (3.3 ft) (typical) Orni-Directional Sealed Audible Alarm with Intensity Adjustment: 2.1 kHz ± 250 Hz oscillation frequency; maximum intensity 95 dB at 1 m (3.3 ft) (typical) (typical)

Typical Reduction in Sound Intensity with Audible Adjustment (maximum to minimum)

- Standard Audible: 30 dB
- ٠ Sealed Audible: 20 dB
- Omni-Directional Sealed Audible: 12 dB

Audible Adjustment

Standard Audible Alarm: Unscrew the cover (up to 1.5 turns maximum) to adjust the audible intensity. (Do not exceed 1.5 turns or the cover may detach during operation.) For maximum intensity, rotate the center plug

Sealed Audible Alarm and Omni-Directional Sealed Audible Alarm with Intensity Adjustment: Rotate the front cover until the desired intensity is reached

Omni-Directional Sealed Audible Alarm: No adjustment.

Connections

Integral 4-pin, 5-pin, or 8-pin M12/Euro-style quick disconnect, 150 mm (6 in) PVC cable with a M12/Euro-style quick disconnect, or 2 m (6.5 ft) integral PVC cable, depending on model

Models with a quick disconnect require a mating cordset

Construction

Bases and Covers: ABS

Light Segment: Polycarbonate

Vibration and Mechanical Shock

Meets IEC 60068-2-6 requirements (Vibration: 10 Hz to 55 Hz, 1.0 mm amplitude, 5 minutes sweep, 30 minutes dwell)

Meets IEC 60068-2-27 requirements (Shock: 30G 11 ms duration, half sine wave)

Certifications



Indicators

LEDs are independently selected, 1 to 5 colors depending on model Indicator Functions

A color designation followed by an LED option number, indicates the LED status. For example: TL50BLR2Q or TL50BLG1AQ.

LED Option	LED Status	Rotation or Flash Rate
Blank	Steady On	-
1	Rotating	200 RPM ± 15%
2	Flashing	1.6 Hz rate ± 15%

Indicator Characteristics

Color	Dominant Wavelength (nm) or Color Temperature (CCT)	Lumen Output (Typical at 25 °C)	
Green	525 nm	52	
Red	626 nm	24	
Yellow	590 nm	15	
Blue	470 nm	16	
White	5000 K	56	

Operating Conditions

Non-Audible: -40 °C to +50 °C (-40 °F to +122 °F) Standard and Sealed Audible: -20 °C to +50 °C (-4 °F to +122 °F) 95% at +50 °C maximum relative humidity (non-condensing)

Environmental Rating

NEMA/UL Type 13, 4X Indoor Non-Audible and Sealed Audible: IEC IP67 Standard Audible: IEC IP50

Required Overcurrent Protection



WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table.

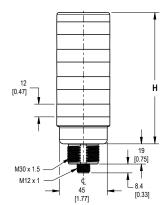
Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply. Supply wiring leads < 24 AWG shall not be spliced.

For additional product support, go to www.bannerengineering.com.

Supply Wiring (AWG)	Required Overcurrent Protection (Amps)
20	5.0

20	0.0
22	3.0
24	2.0
26	1.0
28	0.8
30	0.5

Dimensions



H	Tower Height (H)					
# of Colors	Non-Audible	Standard Audible*	Sealed Audible	Omni-Directional Sealed Audible		
1	46.2 mm (1.8 in)	77.1 mm (3.1 in)	100.2 mm (4.0 in)	114.2 mm (4.5 in)		
2	72.0 mm (2.8 in)	102.9 mm (4.1 in)	126.0 mm (5.0 in)	140.0 mm (5.5 in)		
3	97.8 mm (3.8 in)	128.7 mm (5.1 in)	151.8 mm (6.0 in)	165.8 mm (6.5 in)		
4	123.6 mm (4.8 in)	154.5 mm (6.1 in)	177.6 mm (7.0 in)	191.6 mm (7.5 in)		
5	149.4 mm (5.8 in)	-	-	-		

All measurements are listed in millimeters [inches], unless noted otherwise.

Accessories

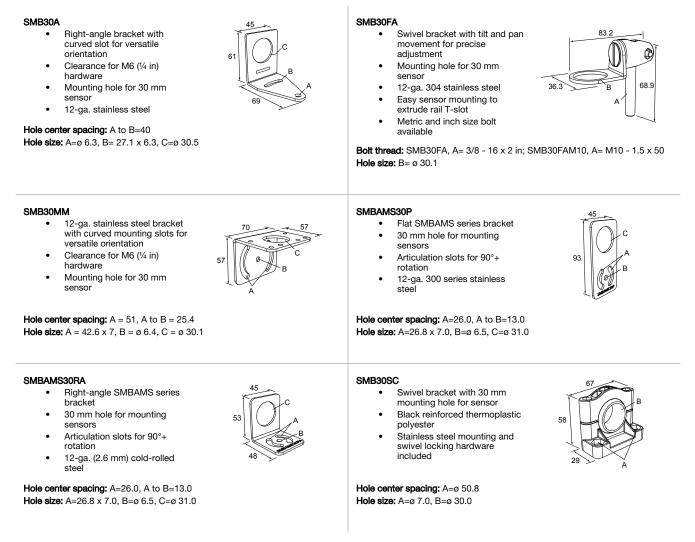
Cordsets

4-Pin Threaded M12/Euro-Style Cordsets				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC-406	1.83 m (6 ft)			
MQDC-415	4.57 m (15 ft)			
MQDC-430	9.14 m (30 ft)			
MQDC-450	15.2 m (50 ft)	Straight	M12 x1 ø14.5	1 = Brown 2 = White 3 = Blue 4 = Black

5-Pin Threaded M12/Euro-Style Cordsets—Single Ended					
Model	Length	Style	Dimensions	Pinout (Female)	
MQDC1-501.5	0.50 m (1.5 ft)		44 Typ		
MQDC1-506	1.83 m (6 ft)	Straight			
MQDC1-515	4.57 m (15 ft)				
MQDC1-530	9.14 m (30 ft)		M12 x 1 — ø 14.5	$1 - \frac{2}{4}$ $1 = \text{Brown}$ $2 = \text{White}$ $3 = \text{Blue}$ $4 = \text{Black}$ $5 = \text{Gray}$	
MQDC1-506RA	1.83 m (6 ft)		32 Typ. [1.26"] 30 Typ. 30 Typ. [1.18"] 0 14.5 [0.57"]		
MQDC1-515RA	4.57 m (15 ft)				
MQDC1-530RA	9.14 m (30 ft)	Right-Angle			

8-Pin Threaded M12/Euro-	8-Pin Threaded M12/Euro-Style Cordsets with Open-Shield				
Model	Length	Style	Dimensions	Pinout (Female)	
MQDC2S-806	1.83 m (6 ft)				
MQDC2S-815	4.57 m (15 ft)				
MQDC2S-830	9.14 m (30 ft)	Straight		2	
MQDC2S-850	15.2 m (50 ft)				
MQDC2S-806RA	1.83 m (6 ft)			1 = White 2 = Brown 3 = Green 4 = Yellow 5 = Gray 6 = Pink 7 = Blue 8 = Red	
MQDC2S-815RA	4.57 m (15 ft)		32 Typ. [1.26"] 30 Typ. [1.18"] 0 14.5 [0.57"]		
MQDC2S-830RA	9.14 m (30 ft)				
MQDC2S-850RA	15.2 m (50 ft)	Right-Angle			

Mounting Brackets



All measurements are listed in millimeters [inches], unless noted otherwise.

LMB Sealed Right-Angle Bracket

Model	Description	Construction	
LMB30RA		Black polycarbonate	
LMB30RAC	Direct-Mount Models: Bracket kit with base, 30 mm adapter, set screw, fasteners, O-rings, and gaskets.	Gray polycarbonate	
LMBE12RA	Pipe-Mount Models: Bracket kit with base, ½-14 pipe	Black polycarbonate	
LMBE12RAC	adapter, set screw, fasteners, O-rings, and gaskets. For use with stand-off pipe (listed and sold separately).	Gray polycarbonate	

Elevated Mount System

Model			Features	Components
SA-M30TE12 - Black Acetal SA-M30TE12C - White UHMW			 Streamlined black acetal or white UHMW stand-off pipe adapter/cover Connects between 30 mm light base and ½ in. NPSM/DN15 pipe Mounting hardware included 	
Polished 304 Stainless Steel	Black Anodized Aluminum	Clear Anodized Aluminum		
SOP-E12-150SS 150 mm (6 in) long	SOP-E12-150A 150 mm (6 in) long	SOP-E12-150AC 150 mm (6 in) long	 Elevated-use stand-off pipe (½ in. NPSM/DN15) Polished 304 stainless steel, black anodized 	
SOP-E12-300SS 300 mm (12 in) long	SOP-E12-300A 300 mm (12 in) long	SOP-E12-300AC 300 mm (12 in) long	 aluminum, or clear anodized aluminum surface ½ in. NPT thread at both ends Compatible with most industrial environments 	
SOP-E12-900SS 900 mm (36 in) long	SOP-E12-900A 900 mm (36 in) long	SOP-E12-900AC 900 mm (36 in) long		
SA-E12M30 - Black Ace	ital	'	Streamlined black acetal or white UHMW mounting	db
SA-E12M30C - White UHMW			 base adapter/cover Connects between ½ in. NPSM/DN15 pipe and 30 mm (1-3/16 in) drilled hole Mounting hardware included 	

Pipe Mounting Flange

Pipe Mounting Flange					
Model	Features	Construction			
SA-F12	 For use elevated stand-off pipes (½ in, NPSM/DN15) M5 mounting hardware and nitrile gasket included 	Die-cast zinc base with black paint	1/2-14 NPSM 101 01 01 01 01 01 01 01 01 01 01 01 01		

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