Standard Audible

Sealed Audible

Omni-Directional Sealed Audible



Datasheet

Compact Beacon Tower Light

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

Models

Standard



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 LED color:

- 125 mA at 12 V dc
- ٠
- 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 intensity 94

Official and a select Audition in the field of the constraint in requering, maximum intensity of a select Audible Alarm: 2.1 kHz ± 250 Hz oscillation frequency; maximum intensity of B at 1 m (3.3 ft) (typical) Omni-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 Reduction in Sound Intensity with Audible Adjustment (maximum to minimum)

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

Audible Adjustment

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 180° counterclockwise to remove it. 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)

US LISTED

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

UL Type 4X Indoor and UL Type 13 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.bannere*

nerengineering.com

Supply Wiring (AWG)	Required Overcurrent Protection (Amps)
20	5.0
22	3.0
24	2.0
26	1.0
28	0.8
30	0.5

Dimensions



	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—Single Ended				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC-406	1.83 m (6 ft)			
MQDC-415	4.57 m (15 ft)			-2
MQDC-430	9.14 m (30 ft)		→ 44 Typ. —— –	1-
MQDC-450	15.2 m (50 ft)	Straight	M12 x1014.5 -	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)			
MQDC1-515	4.57 m (15 ft)	Straight		
MQDC1-530	9.14 m (30 ft)		M12 x1 ø 14.5	1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
MQDC1-506RA	1.83 m (6 ft)		, 32 Typ.	
MQDC1-515RA	4.57 m (15 ft)			
MQDC1-530RA	9.14 m (30 ft)	Right-Angle	(1.26") 30 Typ. (1.18") M12 x 1 0 14.5 [0.57"]	

8-Pin Threaded M12/Euro-Style Cordsets with Open-Shield				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC2S-806	1.83 m (6 ft)	ĺ		
MQDC2S-815	4.57 m (15 ft)		44 Typ	
MQDC2S-830	9.14 m (30 ft)			
MQDC2S-850	15.2 m (50 ft)	Straight	هــــر المعالم المعالم M12 x 1 → ø 14.5 →	
MQDC2S-806RA	1.83 m (6 ft)			6
MQDC2S-815RA	4.57 m (15 ft)		32 Typ. [1.26"] 30 Typ. [1.18"] M12 x 1 0 14.5 [0.57"] (1.18"]	1 = White 2 = Brown 3 = Green 4 = Yellow 5 = Gray 6 = Pink 7 = Blue 8 = Red
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		Black polycarbonate	Q
LMBE12RAC	Pipe-Mount Models: Bracket kit with base, ½-14 pipe 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		d٩
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 aluminum, or 	
SOP-E12-300SS 300 mm (12 in) long	SOP-E12-300A 300 mm (12 in) long	SOP-E12-300AC 300 mm (12 in) long	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 Acetal		Streamlined black acetal or white UHMW mounting base	db	
SA-E12M30C - White UHMW		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	 Elevated-use 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 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
SA-F12-3	 Elevated-use stand-off pipes (½ in, NPSM/ DN15) M4 mounting hardware and nitrile blend gasket included 	Black Polycarbonate	1/2-14 NPSM 29 1 8.77 1 8.77 1 0 0 0 0 0 0 0 0 0 0 0	

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For patent information, see www.bannerengineering.com/patents.

FCC Part 15 and CAN ICES-3 (B)/NMB-3(B)

This device complies with part 15 of the FCC Rules and CAN ICES-3 (B)/NMB-3(B). Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules and CAN ICES-3 (B)/NMB-3(B). These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. This equipment does cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. This equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reprint or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the manufacturer.

