TL30 Basic Tower Light



Datasheet

30 mm Multi-Color General-Purpose or Audible Indicators



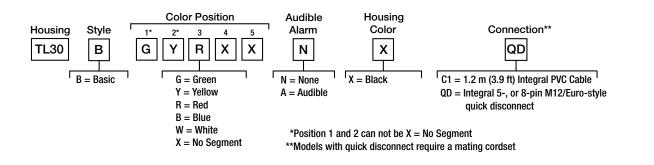
• Rugged, affordable, and easy-to-install multi-segment indicators

• Compact 30 mm diameter

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- Illuminated segments provide easy-to-see operator guidance and indication of equipment status
- Uniform indicator segments appear gray when off to eliminate false indication from ambient light
- Models with 2, 3, 4, and 5 color segments plus audible
- 12 V dc to 30 V dc operation
- No assembly required, mounting nut and gasket supplied

Models



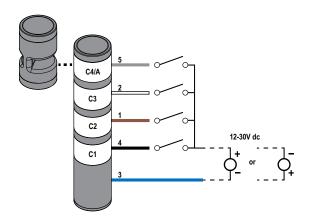
Wiring Diagrams



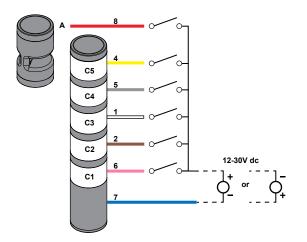
Note: All models are bimodal and can be wired as PNP or NPN devices.



5-Pin/Wire Models



8-Pin / 7-Wire Models



Key

- 1 = Brown2 = White
- 3 = Blue
- 4 = Black
- 5 = Gray
- C1 = Color 1
- C2 = Color 2
- C3 = Color 3
- C4 = Color 4
- A = Audible

Pin 5 (Gray wire) activates the corresponding color or the audible function, if available.

2 and 3 segment models only require associated wires to be connected.

Key

- 1 = White
- 2 = Brown
- 3 = Green (Not Used)
- 4 =Yellow
- 5 = Gray
- 6 = Pink
- 7 = Blue8 = Red
- C1 = Color 1
- C2 = Color 2
- C3 = Color 3
- C4 = Color 4
- C5 = Color 5
- A = Audible
- Green wire not used.

Specifications

Supply Voltage and Current

12 V dc to 30 V dc Maximum current per LED segment: 40 mA Omni-Directional Sealed Audible Alarm: 20 mA maximum current

Supply Protection Circuitry

Protected against transient voltages

Input Leakage Current Immunity 400 µA¹

Audible Alarm

Omni-Directional Sealed Audible Alarm: 2.8 kHz ± 500 Hz oscillation frequency, maximum intensity 90 dB at 1 m (3.3 ft) (typical)

Operating Conditions

-40 °C to +50 °C (-40 °F to +122 °F) 90% maximum relative humidity (non-condensing) Storage Temperature: -40 °C to +70 °C (-40 °F to +158 °F)

Environmental Rating

All Models:

IEC IP65

UL Type 4X when mounted in a suitable enclosure Non-Audible: UL Type 13 when mounted in a suitable enclosure

Indicators

LEDS are independently selected; 2 to 5 colors depending on model

Indicator Response Time

Indicator On/Off: 1 millisecond maximum

Indicator Characteristics

Color	Dominant Wavelength (nm) or Color Temperature (CCT)	Color Coordinates ²		Lumen Output
		×	У	(Typical at 25 °C)
Green	524 nm	0.160	0.708	7.5
Red	620 nm	0.690	0.308	2.5
Yellow	592 nm	0.582	0.413	6.5
Blue	468 nm	0.136	0.062	2.0
White	5500K	0.332	0.360	7.5

Any current above this value may activate the TL30.
 Refer to CIE 1931 chromaticity diagram or color chart, to show equivalent color with indicated color coordinates.

Construction

Base, Segments and Audible: UV stabilized polycarbonate Grommet: TPV Mounting Nut: PBT Sealing Gasket: PVC/NBR/CR

Mounting

M22 × 1.5 threaded base, maximum torque 2.25 N·m (20 in·lbf) Mounting nut and sealing gasket included

Connections

Integral 5-pin, or 8-pin M12/Euro-style quick disconnect, or 1.2 m (3.9 ft) integral PVC cable, depending on model Models with a quick disconnect require a mating cordset

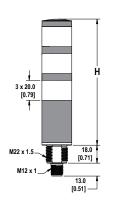
Vibration and Mechanical Shock

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) IK07 (EN 60068-2-75 with SMBAMS22RA bracket)

Certifications

CE

Dimensions



# of colors	Tower Height (H)		
	Non-Audible	Omni-Directional Sealed Audible	
2	99.7 mm (3.9 in)	145.6 mm (5.7 in)	
3	126.7 mm (5.0 in)	172.6 mm (6.8 in)	
4	153.7 mm (6.0 in)	199.6 mm (7.9 in)	
5	180.7 mm (7.1 in)	226.6 mm (8.9 in)	

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

Accessories

Cordsets

5-Pin Threaded M12/Euro-Style Cordsets—Single Ended				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC1-501.5	0.50 m (1.5 ft)			~2
MQDC1-506	1.83 m (6 ft)		. 44 Ture	1-
MQDC1-515	4.57 m (15 ft)			4
MQDC1-530	9.14 m (30 ft)	Straight	M12 x 1 0 14.5	1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray

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	
22	3.0	
24	2.0	
26	1.0	
28	0.8	
30	0.5	

5-Pin Threaded M12/Euro-Style Cordsets—Single Ended				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC1-506RA	1.83 m (6 ft)			
MQDC1-515RA	4.57 m (15 ft)		32 Typ.	
MQDC1-530RA	9.14 m (30 ft)	Right-Angle	(1.26") 30 Typ. [1.18"] μ μ μ μ μ μ μ μ μ μ μ μ μ	

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)		44 Typ	
MQDC2S-830	9.14 m (30 ft)			2
MQDC2S-850	15.2 m (50 ft)	Straight	M12 x 1 - 0 14.5 -	1 = White $2 = Brown$ $3 = Green$ $4 = Yellow$ $5 = Gray$ $6 = Pink$ $7 = Blue$ $8 = Red$
MQDC2S-806RA	1.83 m (6 ft)			
MQDC2S-815RA	4.57 m (15 ft)		32 Typ	
MQDC2S-830RA	9.14 m (30 ft)			
MQDC2S-850RA	15.2 m (50 ft)	Right-Angle	M12 x 1	

Brackets

SMB22FVK SMB22A Right-angle bracket with curved slot for V-clamp, flat bracket and fasteners for ٠ ٠ versatile orientation mounting to pipe or extensions 12-ga. stainless steel Clamp accommodates 28 mm diameter ٠ tubing or 1 in. square extrusions Mounting hole for 22 mm sensor • 22 mm hole for mounting sensor • Hole size: A = Ø 22.5 Hole center spacing: A to B = 26.0Hole size: A = Ø 4.6, B = 4.6 x 16.9, C = 22.2 SMB22RAVK SMBAMS22P 45 V-clamp, right-angle bracket and fasteners for mounting to pipe or Flat SMBAMS series bracket with 22 mm ٠ hole for mounting sensors extensions Articulation slots for 90+° rotation Clamp accommodates 28 mm diameter 12-ga. (2.6 mm) cold-rolled steel tubing or 1 in. square extrusions 22 mm hole for mounting sensor • Hole size: A = Ø 22.5 Hole center spacing: A = 26.0, A to B = 13.0 **Hole size:** $A = 26.8 \times 7.0$, $B = \emptyset \ 6.5$, $C = \emptyset \ 22.5$ www.bannerengineering.com - Tel: + 1 888 373 6767 P/N 206089 Rev. C

SMBAMS22RA

- Right-angle SMBAMS series bracket with 22 mm hole for mounting sensors ٠
- Articulation slots for 90+° rotation ٠
- 12-ga. (2.6 mm) cold-rolled steel



65 45

2X Ø11

38.25

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Hole center spacing: A = 26.0, A to B = 13.0 Hole size: A = 26.8 x 7.0, B = ø 6.5, C = ø 22.5

LMBE12RA45

- Direct mounting of stand-off pipe, with • common bracket type
- Zinc-plated steel •
- 1/2-14 NPSM nut
- 1/2 14 -/ NPSM NUT Mounting distance from the wall to the • center of the 1/2-14 NPSM nut is 45 mm

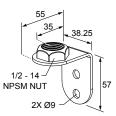
Hole center spacing: 35.0

LMB Sealed Right-Angle Bracket

Model	Description	Construction	
LMBE12RA	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).	Black polycarbonate	

Elevated Mount System

Model			Features	Components
SA-M22E12 - Black Polycarbonate			 Streamlined black polycarbonate stand-off pipe adapter/cover Connects between 22 mm light base and ½ in. NPSM/DN15 pipe 	
Polished 304 Stainless Steel	Black Anodized Aluminum	Clear Anodized Aluminum		db
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		T
SA-E12M30 - Black Acetal			 Streamlined black acetal mounting base adapter/ cover Connects between ½ in. NPSM/DN15 pipe and 30 mm (1-3/16 in) drilled hole Mounting hardware included 	



Hole center spacing: 20.0

Direct mounting of stand-off pipe, with

Mounting distance from the wall to the

center of the 1/2-14 NPSM nut is 35 mm

common bracket type

Zinc-plated steel

1/2-14 NPSM nut

LMBE12RA35

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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 10 070 028 070	
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 1 8.77 0 0000000000000000000000000000000000	

Foldable Mounting Bracket

Foldable Mounting Brackets				
Model	Features	Construction		
SA-FFB12	 For use with 1/2 inch stand-off pipes Stainless steel hardware 	Black polycarbonate	111 111 110 110 4 x Ø5	

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