

TL50 Tower Light

Multi-Color General-Purpose or Audible Indicators

Features



- Rugged, cost-effective and easy-to-install multisegment indicators
- Illuminated segments provide easy-to-see operator guidance and indication of equipment status
- Displays up to 5 colors
- Optional audible function with variable intensity
- Compact devices are completely self-contained — no controller needed
- Immune to EMI and RFI interference
- 18 to 30V dc or 24V ac operation
- No assembly required

Multi-Color General-Purpose Models

Model	Color Count	Connection*	LED Function**	Inputs
TL50RQ	1	4-pin Euro integral QD connector	1 Color: Red	Bimodal (NPN or PNP)
TL50GRQ	2		2 Color: Green, Red	
TL50GYRQ	3		3 Color: Green, Yellow, Red	
TL50BGYRQ	4	5-pin Euro integral QD connector	4 Color: Blue, Green, Yellow, Red	
TL50WBGYRQ	5	8-pin Euro integral QD connector	5 Color: White, Blue, Green, Yellow, Red	

Multi-Color Audible Models

Model	Color Count	Connection*	LED Function**	Inputs
TL50RAQ	1	4-pin Euro integral QD connector	1 Color: Red	Bimodal (NPN or PNP)
TL50GRAQ	2		2 Color: Green, Red	
TL50GYRAQ	3	5-pin Euro integral QD connector	3 Color: Green, Yellow, Red	


Model	Color Count	Connection*	LED Function**	Inputs
TL50BGYRAQ	4	8-pin Euro integral QD connector	4 Color: Blue, Green, Yellow, Red	

* Integral QD models are listed.

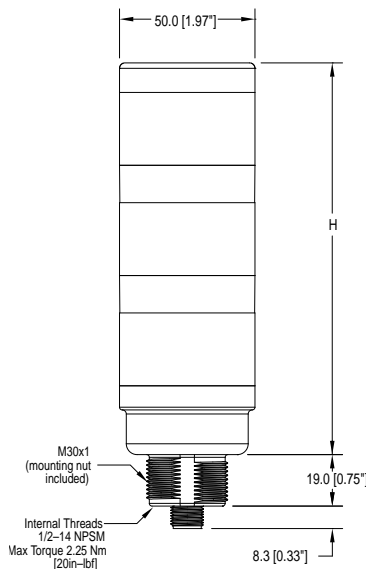
- For 150 mm PVC pigtail with QD, replace **Q** with **QP** in model number (example, **TL50GYRQP**).
- For 2 m (6.5') cable, omit suffix **Q** from model number (example, **TL50GYR**).
- A model with a QD requires a mating cable (see [Quick-Disconnect \(QD\) Cordsets](#))

** The first color listed is the bottom color, going up in successive order. Contact factory for other colors and color combinations.

Specifications

Feature	Description
Supply Voltage and Current	18 to 30V dc (10% max. ripple); or 21 to 27V ac <ul style="list-style-type: none"> • Indicators: @ 45 mA max. current per LED color • Audible Alarm: 25 mA max. current
Indicators	LEDs are independently selected: Green, Red, Yellow, Blue or White; 1-5 colors depending on model
Input Response Time	Indicator ON/OFF: 10 ms (max.)
Audible Alarm	Ocillation Frequency: 2.7 kHz \pm 500 Hz Max. Intensity (typical): 95 db @ 1 meter
Audible Adjustments	The audible intensity can be adjusted by unscrewing the cover. The cover should not be unscrewed more than one and a half turns or it may detach during operation. For max. intensity, remove the center plug by rotating it 180° counterclockwise.
Construction	Bases and Covers: ABS Light Segment: Polycarbonate
Environmental Rating	General-Purpose: IEC IP67 Audible: IEC IP50
Connections	Integral 4-pin, 5-pin or 8-pin Euro-style QD, 150 mm PVC pigtail with QD, or 2 m (6.5') integral cable, depending on model
Operating Conditions	General-Purpose: -40° to +50° C (-40° to +122° F) Audible: -20° to +50° C (-4° to +122° F)
Certifications	

Dimensions



Tower Height (H)		
Color Count	Multi-Color General-Purpose Models	Multi-Color Audible Models†
1	61.2 mm (2.4")	92.0 mm (3.6")
2	101.9 mm (4.0")	132.7 mm (5.2")
3	142.6 mm (5.6")	173.4 mm (6.8")
4	183.3 mm (7.2")	214.1 mm (8.4")
5	224.0 mm (8.8")	—

† Tower Height (H) with top unscrewed approximately 3.5 mm to allow sound to escape

Hookups – 4-Pin Models

Sourcing (PNP) Input	Sinking (NPN) Input	Wiring Key
		<p>1 = Brown 2 = White 3 = Blue 4 = Black</p>
Pins 1 and 2 could activate the corresponding color or the audible function, depending on model.		

Hookups – 5-Pin Models

Sourcing (PNP) Input	Sinking (NPN) Input	Wiring Key
		<p>1 = Brown</p> <p>2 = White</p> <p>3 = Blue</p> <p>4 = Black</p> <p>5 = Gray</p>
Pin 5 could activate the corresponding color or the audible function, depending on model.		

Hookups – 8-Pin Models

Sourcing (PNP) Input	Sinking (NPN) Input	Wiring Key
		<p>1 = White</p> <p>2 = Brown</p> <p>3 = Green</p> <p>4 = Yellow</p> <p>5 = Gray</p> <p>6 = Pink</p> <p>7 = Blue</p> <p>8 = Red</p>
Pin 4 could activate the corresponding color or the audible function, depending on model. Pins 3 and 8 are not used.		

Quick-Disconnect (QD) Cordsets

Style	Model	Length	Dimensions	Pinout
4-pin Euro-style straight	MQDC-406	2 m (6.5')		Female
	MQDC-415	5 m (15')		
	MQDC-430	9 m (30')		

Style	Model	Length	Dimensions	Pinout
4-pin Euro-style Right-angle	MQDC-406RA	2 m (6.5')		1 = Brown 2 = White 3 = Blue 4 = Black
	MQDC-415RA	5 m (15')		
	MQDC-430RA	9 m (30')		

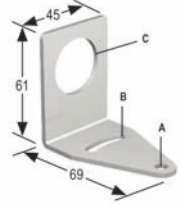

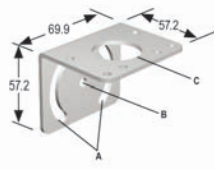
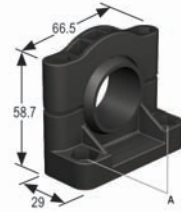
Quick-Disconnect (QD) Cordsets

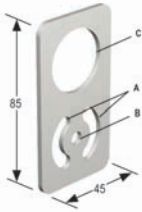
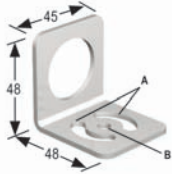
Style	Model	Length	Dimensions	Pinout
5-pin Euro-style Straight	MQDC1-506	2 m (6.5')		Female
	MQDC1-515	5 m (15')		
	MQDC1-530	9 m (30')		
5-pin Euro-style Right-Angle	MQDC1-506RA	2 m (6.5')		1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
	MQDC1-515RA	5 m (15')		
	MQDC1-530RA	9 m (30')		

Quick-Disconnect (QD) Cordsets





Style	Model	Length	Dimensions	Pinout
8-pin Euro-Style straight	MQDC2S-806	2 m (6.5')		Female
	MQDC2S-815	5 m (15')		
	MQDC2S-830	9 m (30')		
				1 = White 2 = Brown 3 = Green 4 = Yellow 5 = Gray 6 = Pink 7 = Blue 8 = Red

Mounting Brackets

Model	Features	Dimensions (all measurements in mm)
SMB30A	<ul style="list-style-type: none"> • Right-angle bracket with curved slot for versatile orientation • Clearance for M6 (1/4") hardware • 30 mm mounting hole • 12-ga. stainless steel 	 <p>Hole center spacing: A to B=40.0 Hole size: A=∅ 6.3, B=27.3 x 6.3, C=∅ 30.5</p>
SMB30FA	<ul style="list-style-type: none"> • Swivel bracket with tilt and pan movement for precision adjustment • 30 mm mounting hole • 12-ga. 304 stainless steel 	 <p>A=3/8 - 16 x 50.8 Hole size: B=∅ 30.1</p>
SMB30MM	<ul style="list-style-type: none"> • 12-ga. stainless steel bracket with curved mounting slots for versatility and orientation • Clearance for M6 (1/4") hardware • 30 mm mounting hole 	 <p>Hole center spacing: A=51.0, A to B=25.4 Hole size: A=42.6 x 7.0, B=∅ 6.4, C=∅ 30.1</p>
SMB30SC	<ul style="list-style-type: none"> • Swivel bracket with 30 mm mounting hole • Black reinforced thermoplastic polyester • Stainless steel mounting and swivel locking hardware included 	

Model	Features	Dimensions (all measurements in mm)
		Hole center spacing: A to B=50.8 Hole size: A=∅ 7.0
SMBAMS30P	<ul style="list-style-type: none"> • Flat SMBAMS series bracket • 30 mm mounting hole • Articulation slots for 90+° rotation • 12-ga. 300 series stainless steel 	 <p>Technical drawing of the SMBAMS30P bracket. It is a flat rectangular plate with a height of 85 mm and a width of 45 mm. It features a large circular hole at the top and a smaller circular hole at the bottom. Dimension A is the distance from the top edge to the center of the bottom hole. Dimension B is the diameter of the bottom hole. Dimension C is the diameter of the top hole.</p> Hole center spacing: A=26.0, A to B=13.0 Hole size: A=26.8 x 7.0, B=∅ 6.5, C=∅ 31.0
SMBAMS30RA	<ul style="list-style-type: none"> • Right-angle SMBAMS series bracket • 30 mm mounting hole • Articulation slots for 90+° rotation • 12-ga. cold rolled stainless steel 	 <p>Technical drawing of the SMBAMS30RA right-angle bracket. It has a height of 48 mm and a width of 45 mm. It features a large circular hole at the top and a smaller circular hole at the bottom. Dimension A is the distance from the top edge to the center of the bottom hole. Dimension B is the diameter of the bottom hole. Dimension C is the diameter of the top hole.</p> Hole center spacing: A=26.0, A to B=13.0 Hole size: A=26.8 x 7.0, B=∅ 6.5, C=∅ 31.0

Mounting Systems - Elevated Mount

Model		Features	Mounting System	
SA-M30TE12		<ul style="list-style-type: none"> Streamlined acetal stand-off pipe adapter/cover Connects between TL50 Tower Light and ½" NPSM/DN15 pipe Mounting hardware included 		
Stainless Steel	Aluminum	<ul style="list-style-type: none"> Elevated-use stand-off pipe (½" NPSM/DN15) Polished 304 stainless steel or anodized aluminum surface ½ NPT thread at both ends Compatible with most industrial environments 		
SOP-E12-150SS Length: 150 mm (6")	SOP-E12-150A Length: 150 mm (6")			
SOP-E12-300SS Length: 300 mm (12")	SOP-E12-300A Length: 300 mm (12")			
SA-E12M30		<ul style="list-style-type: none"> Streamlined acetal mounting base adapter/cover Connects between ½" NPSM/DN15 pipe and 30 mm (1-3/16") drilled hole Mounting hardware included 		



WARNING . . . Not To Be Used for Personnel Protection

Never use this product as a sensing device for personnel protection. Doing so could lead to serious injury or death

This product does NOT include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A sensor failure or malfunction can cause either an energized or de-energized sensor output condition. Consult your Banner Safety Products catalog for safety products that meet OSHA, ANSI and IEC standards for personnel protection.