EZ-LIGHT® TL50 Compact Tower Light

Datasheet

Multi-Color General-Purpose or Audible Indicators

Standard

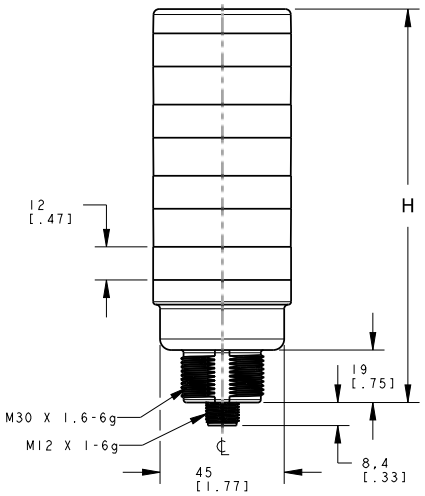
Standard Audible

Sealed Audible

Omni-Directional Sealed Audible

- Bright, uniform lighted segments at only half the height of the standard TL50 models
- Rugged, cost-effective, and easy-to-install multi-segment indicators
- Illuminated segments provide easy-to-see operator guidance and indication of equipment status
- Up to 7 stacked colors available
- Available in black or light gray housing
- Audible models available with standard, sealed, or omni-directional audible element
- Compact devices are completely self-contained - no controller needed
- 12 to 30 V dc or 24 V ac operation
- No assembly required

Dimensions



# of Colors	Tower Height (H)			
	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 (4.48 in)
2	72.0 mm (2.83 in)	102.9 mm (4.1 in)	126.0 mm (5.0 in)	140.0 mm (5.5 in)
3	97.8 mm (3.85 in)	128.7 mm (5.1 in)	151.8 mm (6.0 in)	165.8 mm (6.5 in)
4	123.6 mm (4.9 in)	154.5 mm (6.1 in)	177.6 mm (7.0 in)	191.6 mm (7.54 in)
5	149.4 mm (5.9 in)	180.3 mm (7.1 in)	203.4 mm (8.0 in)	217.4 mm (8.56 in)
6	175.2 mm (6.9 in)	206.1 mm (8.1 in)	229.2 mm (9.0 in)	243.4 mm (9.58 in)
7	201.0 mm (7.9 in)	-	-	-

*Tower height (H) with top unscrewed approximately 3.5 mm to allow sound to escape

Models

Models—models with black housing are listed. For gray housing, add suffix **C** at the end of the model number (cabled models) or before the **Q** (QD models), for example, **TL50CRAC** or **TL50CRACQ**. All models have Bimodal (NPN or PNP) inputs.

LED Function—the first color listed is the bottom color, going up in successive order. For additional models and colors, visit Banner Engineering website at *www.bannerengineering.com*.

Connection—Integral QD models only are listed; mating cordset required (see *Cordsets* on page 5). For 150 mm (5.9 in) PVC pigtail with QD, replace **Q** with **QP** in the model number, for example, **TL50CRAQP**. For 2 m (6.5 ft) cable, omit suffix **Q** from the model number, for example, **TL50CRA**.

Non-Audible Models			
Model	**# of LED Colors**	**LED Function**	**Connection**
TL50CRQ	1	Red	4-pin Euro Integral QD
TL50CGRQ	2	Green, Red	
TL50CGYRQ	3	Green, Yellow, Red	
TL50CBGYRQ	4	Blue, Green, Yellow, Red	5-pin Euro Integral QD
TL50CWBGYRQ	5	White, Blue, Green, Yellow, Red	8-pin Euro Integral QD

Standard Audible Models			
Model	**# of LED Colors**	**LED Function**	**Connection (Euro Integral QD)**
TL50CRAQ	1	Red	4-pin Euro Integral QD
TL50CGRAQ	2	Green, Red	
TL50CGYRAQ	3	Green, Yellow, Red	5-pin Euro Integral QD
TL50CBGYRAQ	4	Blue, Green, Yellow, Red	8-pin Euro Integral QD
TL50CWBGYRAQ	5	White, Blue, Green, Yellow, Red	

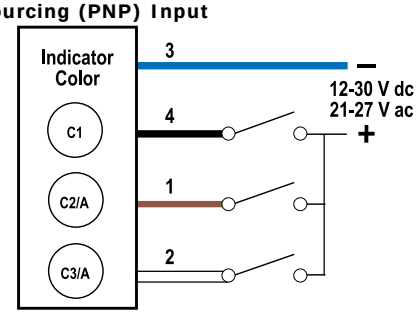
Sealed Audible Models			# of LED Colors	LED Function	Connection
Continuous	**Pulsed at 1.6 Hz**	**Staccato**			
TL50CRALSQ	**TL50CRALS3Q**	**TL50CRALS4Q**	1	Red	4-pin Euro Integral QD
TL50CGRALSQ	**TL50CGRALS3Q**	**TL50CGRALS4Q**	2	Green, Red	
TL50CGYRALSQ	**TL50CGYRALS3Q**	**TL50CGYRALS4Q**	3	Green, Yellow, Red	5-pin Euro Integral QD
TL50CBGYRALSQ	**TL50CBGYRALS3Q**	**TL50CBGYRALS4Q**	4	Blue, Green, Yellow, Red	8-pin Euro Integral QD
TL50CWBGYRALSQ	**TL50CWBGYRALS3Q**	**TL50CWBGYRALS4Q**	5	White, Blue, Green, Yellow, Red	

Omni-Directional Sealed Audible Models (99 dB max)			# of LED Colors	LED Function	Connection
Continuous	**Pulsed at 1.6 Hz**	**Staccato**			
TL50CRAOSQ	**TL50CRAOS3Q**	**TL50CRAOS4Q**	1	Red	4-pin Euro Integral QD
TL50CGRAOSQ	**TL50CGRAOS3Q**	**TL50CGRAOS4Q**	2	Green, Red	
TL50CGYRAOSQ	**TL50CGYRAOS3Q**	**TL50CGYRAOS4Q**	3	Green, Yellow, Red	5-pin Euro Integral QD
TL50CBGYRAOSQ	**TL50CBGYRAOS3Q**	**TL50CBGYRAOS4Q**	4	Blue, Green, Yellow, Red	8-pin Euro Integral QD
TL50CWBGYRAOSQ	**TL50CWBGYRAOS3Q**	**TL50CWBGYRAOS4Q**	5	White, Blue, Green, Yellow, Red	

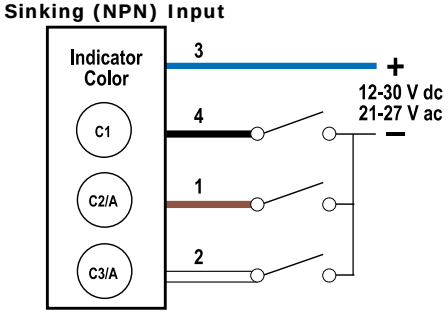
Omni-Directional Sealed Audible Models with Intensity Adjustment (95 dB max)			# of LED Colors	LED Function	Connection
Continuous	**Pulsed at 1.6 Hz**	**Staccato**			
TL50CRAOSIQ	**TL50CRAOS3IQ**	**TL50CRAOS4IQ**	1	Red	4-pin Euro Integral QD
TL50CGRAOSIQ	**TL50CGRAOS3Q**	**TL50CGRAOS4Q**	2	Green, Red	
TL50CGYRAOSIQ	**TL50CGYRAOS3IQ**	**TL50CGYRAOS4IQ**	3	Green, Yellow, Red	5-pin Euro Integral QD
TL50CBGYRAOSIQ	**TL50CBGYRAOS3IQ**	**TL50CBGYRAOS4IQ**	4	Blue, Green, Yellow, Red	8-pin Euro Integral QD
TL50CWBGYRAOSIQ	**TL50CWBGYRAOS3IQ**	**TL50CWBGYRAOS4IQ**	5	White, Blue, Green, Yellow, Red	

Wiring Diagram – 4-Pin Models

Sourcing (PNP) Input



Sinking (NPN) Input



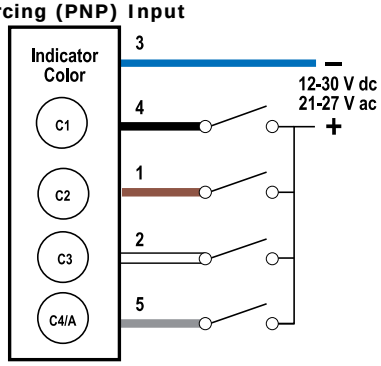
Key:

1 = Brown	C1 = Color 1
2 = White	C2 = Color 2
3 = Blue	C3 = Color 3
4 = Black	A = Audible

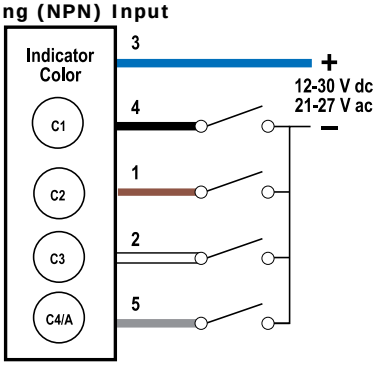
Pins 1 and 2 can activate the corresponding color or the audible function, if available.

Wiring Diagram – 5-Pin Models

Sourcing (PNP) Input



Sinking (NPN) Input



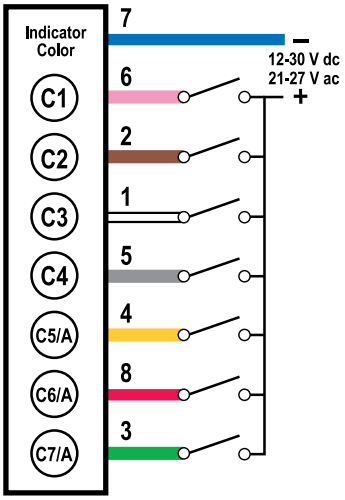
Key:

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

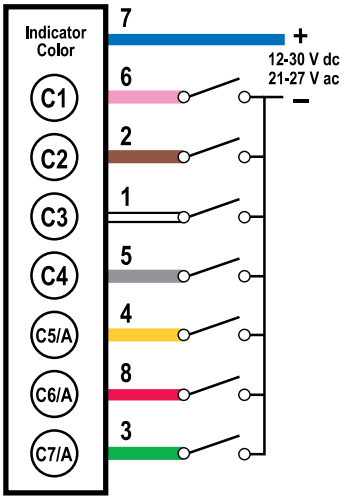
Pin 5 can activate the corresponding color or the audible function, if available.

Wiring Diagram – 8-Pin Models

Sourcing (PNP) Input



Sinking (NPN) Input



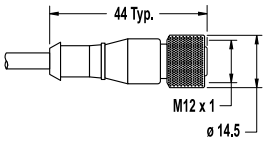
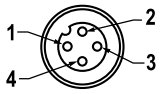
Key:

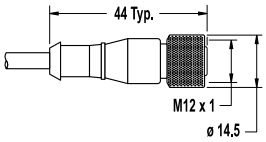
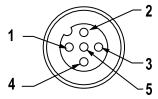
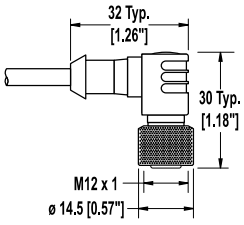
1 = White	C1 = Color 1
2 = Brown	C2 = Color 2
3 = Green	C3 = Color 3
4 = Yellow	C4 = Color 4
5 = Gray	C5 = Color 5
6 = Pink	C6 = Color 6
7 = Blue	C7 = Color 7
8 = Red	A = Audible

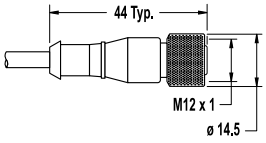
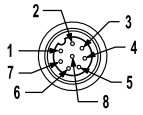
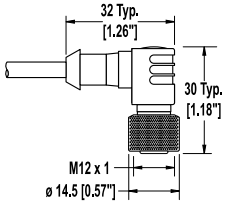
Pins 3, 4 and 8 can activate the corresponding color or the audible function, if available.

Accessories

Cordsets

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

5-Pin Threaded M12/Euro-Style Cordsets (Single Ended)				
Model	**Length**	**Style**	**Dimensions**	**Pinout (Female)**
MQDC1-501.5	0.50 m (1.5 ft)	Straight		 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
MQDC1-506	1.83 m (6 ft)			
MQDC1-515	4.57 m (15 ft)			
MQDC1-530	9.14 m (30 ft)			
MQDC1-506RA	1.83 m (6 ft)	Right-Angle		
MQDC1-515RA	4.57 m (15 ft)			
MQDC1-530RA	9.14 m (30 ft)			

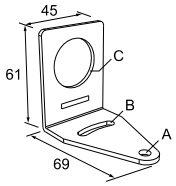
8-Pin Threaded M12/Euro-Style Cordsets with Open-Shield				
Model	**Length**	**Style**	**Dimensions**	**Pinout**
MQDC2S-806	1.83 m (6 ft)	Straight		 1 = White 2 = Brown 3 = Green 4 = Yellow 5 = Gray 6 = Pink 7 = Blue 8 = Red
MQDC2S-815	4.57 m (15 ft)			
MQDC2S-830	9.14 m (30 ft)			
MQDC2S-850	15.2 m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

Mounting Brackets

All measurements are in mm

SMB30A

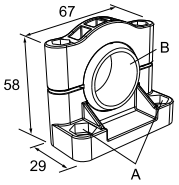
- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor
- 12-ga. stainless steel



Hole center spacing: A to B=40
Hole size: A=ø 6.3, B= 27.1 x 6.3, C=ø 30.5

SMB30SC

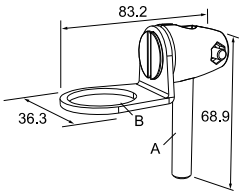
- Swivel bracket with 30 mm mounting hole for sensor
- Black reinforced thermoplastic polyester
- Stainless steel mounting and swivel locking hardware included



Hole center spacing: A=ø 50.8
Hole size: A=ø 7.0, B=ø 30.0

SMB30FA

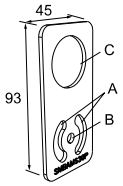
- Swivel bracket with tilt and pan movement for precise adjustment
- Mounting hole for 30 mm sensor
- 12-ga. 304 stainless steel
- Easy sensor mounting to extrude rail T-slot
- Metric and inch size bolt available



Bolt thread: SMB30FA, A= 3/8 - 16 x 2 in; SMB30FAM10, A= M10 - 1.5 x 50
Hole size: B= ø 30.1

SMBAMS30P

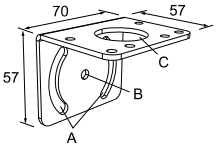
- Flat SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90°+ rotation
- 12-ga. 300 series stainless steel



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 31.0

SMB30MM

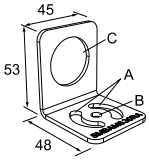
- 12-ga. stainless steel bracket with curved mounting slots for versatile orientation
- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor



Hole center spacing: A = 51, A to B = 25.4
Hole size: A = 42.6 x 7, B = ø 6.4, C = ø 30.1

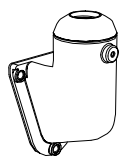
SMBAMS30RA

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



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 31.0

LMB Sealed Right-Angle Bracket

Model	Description	Construction	
LMB30RA	**Direct-Mount Models:** Bracket kit with base, 30 mm adapter, set screw, fasteners, o-rings, and gaskets	Black polycarbonate	
LMB30RAC		Gray polycarbonate	
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	
LMBE12RAC		Gray polycarbonate	

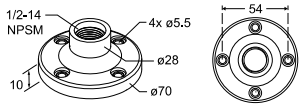
Elevated Mount System

<table>
<tr><th colspan="3">Model</th><th>Features</th><th>Components</th></tr>
<tr><td colspan="3">SA-M30TE12 - Black Acetal</td><td rowspan="2">• 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</td><td rowspan="2"> </td></tr>
<tr><td colspan="3">SA-M30TE12C - White UHMW</td></tr>
<tr><td>Polished 304 Stainless Steel</td><td>Black Anodized Aluminum</td><td>Clear Anodized Aluminum</td><td rowspan="4">• Elevated-use stand-off pipe (½ in. NPSM/DN15)
• Polished 304 stainless steel, black anodized aluminum, or clear anodized aluminum surface
• ½ in. NPT thread at both ends
• Compatible with most industrial environments</td><td rowspan="4"> </td></tr>
<tr><td>SOP-E12-150SS
150 mm (6 in) long</td><td>SOP-E12-150A
150 mm (6 in) long</td><td>SOP-E12-150AC
150 mm (6 in) long</td></tr>
<tr><td>SOP-E12-300SS
300 mm (12 in) long</td><td>SOP-E12-300A
300 mm (12 in) long</td><td>SOP-E12-300AC
300 mm (12 in) long</td></tr>
<tr><td>SOP-E12-900SS
900 mm (36 in) long</td><td>SOP-E12-900A
900 mm (36 in) long</td><td>SOP-E12-900AC
900 mm (36 in) long</td></tr>
<tr><td colspan="3">SA-E12M30 - Black Acetal</td><td rowspan="2">• Streamlined black acetal or white UHMW mounting base adapter/cover
• Connects between ½ in. NPSM/DN15 pipe and 30 mm (1-3/16 in) drilled hole
• Mounting hardware included</td><td rowspan="2"> </td></tr>
<tr><td colspan="3">SA-E12M30C - White UHMW</td></tr>
</table>

Pipe Mounting Flange

SA-F12

- Die-cast zinc base with black paint
- For use elevated stand-off pipes (½ in, NPSM/DN15)
- M5 mounting hardware and nitrile gasket included



Banner Engineering Corp Limited Warranty

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Banner Engineering Corp. reserves the right to change, modify or improve the design of the product without assuming any obligations or liabilities relating to any product previously manufactured by Banner Engineering Corp.