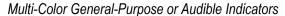
EZ-LIGHT® TL50 High Brightness Tower Light









Standard Audible



Sealed Audible



Omni-Directional Sealed Audible

- Similar in design and construction to standard TL50 Tower Lights, but more than 4 times brighter, improving visibility in areas with high levels of ambient 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
- 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
- 18 to 30V dc or 24V ac operation
- · No assembly required

Audible Models

Standard Audible Models ¹	# of LED Colors	LED Function ²	Connection ³	Inputs
TL50HRAQ	1	Red	4-pin Euro integral QD connector	
TL50HGRAQ	2	Green, Red	4-pin Euro integral QD connector	Bimodal (NPN
TL50HGYRAQ	3	Green, Yellow, Red	5-pin Euro integral QD connector	or PNP)
TL50HBGYRAQ	4	Blue, Green, Yellow, Red	8-pin Euro integral QD connector	,

	Sealed Audible Models ¹		# of LED LED Function ²		Connection ³	Inputs
Continuous	Pulsed at 1.6 Hz	Staccato	Colors	LED Function Connection		inputs
TL50HRALSQ	TL50HRALS3Q	TL50HRALS4Q	1	Red	A sin Firm internal OD acceptan	
TL50HGRALSQ	TL50HGRALS3Q	TL50HGRALS4Q	2	Green, Red	4-pin Euro integral QD connector	Bimodal (NPN
TL50HGYRALSQ	TL50HGYRALS3Q	TL50HGYRALS4Q	3	Green, Yellow, Red	5-pin Euro integral QD connector	or PNP)
TL50HBGYRALSQ	TL50HBGYRALS3Q	TL50HBGYRALS4Q	4	Blue, Green, Yellow, Red	8-pin Euro integral QD connector	,

Omni-Directional Sealed Audible Models (sound exits at 45°) ¹		# of LED	LED Function ²	Connection ³	Inputs	
Continuous	Pulsed at 1.6 Hz	Staccato	Colors	LED Function	Connection	inputs
TL50HRAOSQ	TL50HRAOS3Q	TL50HRAOS4Q	1	Red	4-pin Euro integral QD connector	
TL50HGRAOSQ	TL50HGRAOS3Q	TL50HGRAOS4Q	2	Green, Red	4-pin Euro integral QD connector	Bimodal (NPN
TL50HGYRAOSQ	TL50HGYRAOS3Q	TL50HGYRAOS4Q	3	Green, Yellow, Red	5-pin Euro integral QD connector	or PNP)
TL50HBGYRAOSQ	TL50HBGYRAOS3Q	TL50HBGYRAOS4Q	4	Blue, Green, Yellow, Red	8-pin Euro integral QD connector	,



NOTE: Non-Audible Models are listed on the next page.

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¹ 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, TL50HRCQ.

² The first color listed is the bottom color, going up in successive order. Contact the factory for other colors and color combinations

³ Integral QD models only are listed; mating cordset required (see *Cordsets* on page 4).

[•] For 150 mm (5.9 in) PVC pigtail with QD, replace Q with QP in the model number, for example, TL50HRQP.

[•] For 2 m (6.5 ft) cable, omit suffix **Q** from the model number, for example, **TL50HR**.

Non-Audible Models

Model ⁴	# of LED Colors	LED Function ⁵	Connection ⁶	Inputs
TL50HRQ	1	Red		
TL50HGRQ	2	Green, Red	4-pin Euro integral QD connector	
TL50HGYRQ	3	Green, Yellow, Red		Bimodal (NPN or PNP)
TL50HBGYRQ	4	Blue, Green, Yellow, Red	5-pin Euro integral QD connector	
TL50HWBGYRQ	5	White, Blue, Green, Yellow, Red	8-pin Euro integral QD connector	

Specifications

Supply Voltage and Current

18 to 30V dc (10% max. ripple); or 21 to 27V ac Indicators - max. current per LED color:

· at 18V dc: 100 mA · at 30V dc: 60 mA · at 21V ac: 80 mA · at 27V ac: 70 mA

Standard Audible Alarm: 25 mA max. current Sealed Audible Alarm: 35 mA max. current

Omni-Directional Sealed Audible Alarm: 45 mA max. current

1 to 5 colors; Green, Red, Yellow, Blue, White;

LEDs are independently selected

Supply Protection Circuitry:

Protected against reverse polarity and transient voltages

Input Response Time

Indicator ON/OFF: 10 ms (max.)

Audible Adjustment

Standard Audible Alarm: Unscrew the cover (up to 1.5 turns max.) to adjust the audible intensity. (Do not exceed 1.5 turns or the cover may detach during operation.) For max. intensity, rotate the center plug 180° counterclockwise to remove it.

Sealed Audible Alarm: Rotate the front cover until the desired in-

tensity is reached.

Omni-Directional Sealed Audible Alarm: No adjustment.

Vibration and Mechanical Shock:

All models meet Mil. Std. 202F requirements method 201A (vibration: 10 to 60 Hz max., double amplitude 0.06 in, maximum acceleration 10G). Also meets IEC 947-5-2; 30G 11 ms duration, half sine wave.

Connections

Integral 4-pin, 5-pin, or 8-pin M12/Euro-style QD, 150 mm (5.9 in) PVC pigtail with QD, or 2 m (6.5 ft) integral cable, depending on model

Operating Conditions:

Non-Audible: -40° to +50° C (-40° to +122° F)

Standard and Sealed Audible: -20° to +50° C (-4° to +122° F)

Max. Rel. Humidity: 95% at 50° C (non-condensing)

Audible Alarm

Audible measurements are made in the direction sound exits the device. For standard audible models, this is the top of the unit (when mounted vertically, sound is directed toward the ceiling). For sealed audible models, sound exits the vented openings in the side of the unit, which should be oriented so that the sound is directed toward the machine operator(s). In environments with high ambient noise levels or high ceilings that absorb sound, the sealed or omni-directional models are recommended.

Standard Audible Alarm: 2.7 KHz ± 500 Hz oscillation frequency; max. intensity 92 db at 1 m (3.3 ft) (typical)

Sealed Audible Alarm: 2.9 KHz ± 250 Hz oscillation frequency; max. intensity 94 db at 1 m (3.3 ft) (typical)

Omni-Directional Sealed Audible Alarm: 2.1 KHz ± 250 Hz oscillation frequency; max intensity 99 db at 1m (3.3 ft) (typical)

Construction:

Bases and Covers: ABS Light Segment: Polycarbonate

Environmental Rating

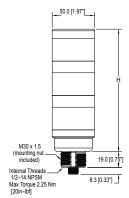
Non-Audible and Sealed Audibles: IEC IP67

Standard Audible: IEC IP50

Certifications



C E LISTED Omni-Directional models: pending



2

# of	Tower Height (H)					
Col- ors	Non-Audible	Standard Audible*	Sealed Audible	Omni-Directional Sealed Audible		
1	61.2 mm (2.4 in)	92.0 mm (3.6 in)	115.1 mm (4.5 in)	129.1 mm (5.1 in)		
2	101.9 mm (4.0 in)	132.7 mm (5.2 in)	155.8 mm (6.1 in)	169.8 mm (6.7 in)		
3	142.6 mm (5.6 in)	173.4 mm (6.8 in)	196.5 mm (7.7 in)	210.5 mm (8.3 in)		
4	183.3 mm (7.2 in)	214.1 mm (8.4 in)	237.2 mm (9.3 in)	251.2 mm (9.9 in)		
5	224.0 mm (8.8 in)	-	-	-		
* Tower h	peight (H) with ton unscrew	ved approximately 3.5 mm to a	Illow sound to ascane	I .		

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, TL50HRCQ.

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

⁶ Integral QD models only are listed; mating cordset required (see *Cordsets* on page 4).

[•] For 150 mm (5.9 in) PVC pigtail with QD, replace Q with QP in the model number, for example, TL50HRQP.

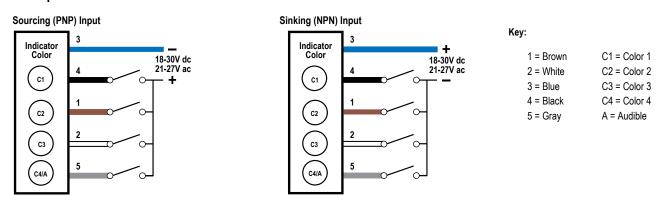
[•] For 2 m (6.5 ft) cable, omit suffix Q from the model number, for example, TL50HR.

Hookups - 4-Pin Models

Sourcing (PNP) Input Sinking (NPN) Input Key: Indicator Indicator 1 = Brown C1 = Color 1 Color Color 18-30V dc 21-27V ac 18-30V dc C2 = Color 2 2 = White 21-27V ac C1 C1 C3 = Color 3 3 = Blue 4 = Black A = Audible C2/A C2/A C3/A C3/A

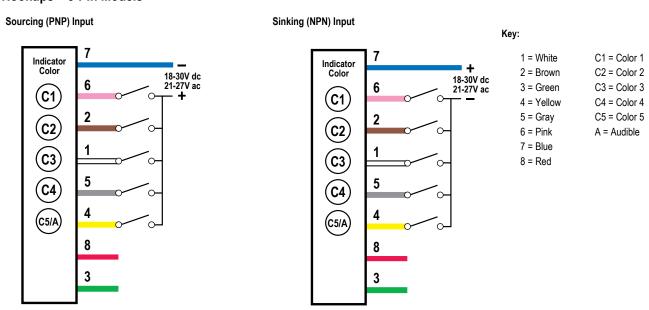
Pins 1 and 2 could activate the corresponding color or the audible function, if available.

Hookups - 5-Pin Models



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

Hookups - 8-Pin Models



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

Accessories

Cordsets

4-Pin Threaded M12/Euro-Style Cordsets					
Model	Length	Style	Dimensions	Pinout	
MQDC-406	1.83 m (6 ft)				
MQDC-415	4.57 m (15 ft)			1-2-2	
MQDC-430	9.14 m (30 ft)		- 14 (J).	4 3	
MQDC-450	15.2 m (50 ft)	Straight	M12 x 1	1 = Brown 2 = White 3 = Blue 4 = Black	

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

8-Pin Threaded M12/Euro-Style Cordsets with Open-Shield					
Model	Length	Style	Dimensions	Pinout	
MQDC2S-806	1.83 m (6 ft)				
MQDC2S-815	4.57 m (15 ft)	7	44 Typ. ——	23	
MQDC2S-830	9.14 m (30 ft)	Straight		1 4 7 6 8 5	
MQDC2S-850	15.2 m (50 ft)		M12 x 1 — 0 14.5 —		
				1 = White	
MQDC2S-806RA	1.83 m (6 ft)			2 = Brown	
MQDC2S-815RA	4.57 m (15 ft)		32 Typ. [1.26"]	3 = Green 4 = Yellow	
MQDC2S-830RA	9.14 m (30 ft)	7		5 = Gray 6 = Pink	
MQDC2S-850RA	15.2 m (50 ft)	Right-Angle	30 Typ. [1.18"] M12 x 1	7 = Blue 8 = Red	

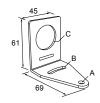
Mounting Brackets

All measurements are in mm

SMB30A

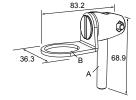
- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (1/4 in) hardware
- Mounting hole for 30 mm sensor
- 12-ga. stainless steel

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



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

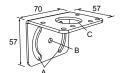


Bolt thread: SMB30FA, A= 3/8 - 16×2 in; SMB30FAM10, A= M10 - 1.5×50 Hole size: B= ø 30.1

SMB30MM

- 12-ga. stainless steel bracket with curved mounting slots for versatile orientation
- Clearance for M6 (1/4 in) hardware
- · Mounting hole for 30 mm sensor

Hole center spacing: A = 51, A to B = 25.4 **Hole size:** A = 42.6×7 , B = $\emptyset 6.4$, C = $\emptyset 30.1$



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

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

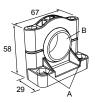
Hole center spacing: A=26.0, A to B=13.0 Hole size: A=26.8 x 7.0, B= \emptyset 6.5, C= \emptyset 31.0



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



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	
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 Alumi- num		مال
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 clear anodized aluminum surface	
SOP-E12-300SS 300 mm (12 in) long	SOP-E12-300A 300 mm (12 in) long	SOP-E12-300AC 300 mm (12 in) long	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		
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		

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