LIGHTING & INDICATORS



TL50 Tower Lights

Banner's TL50 Tower Lights are designed to be exceptionally bright with a long, visible indication range, providing excellent operational status for workers and supervisors. Several models are available for use in a variety of environments, including options with audible alerts.

- · Install quickly and easily with no assembly required
- · Clearly evident on/off status
- · Versatile mounting options
- · Compact, sleek, rugged design with IP67 models available
- · Audible alert: continuous, pulsed and staccato models available
- · Cordsets and brackets see page 566

Audible Types



Audible max. intensity 92 db @ 1 meter (typical)



Sealed Audible max. intensity 94 db @ 1 meter (typical)



Sealed Omni-Directional Audible max. intensity 99 db @ 1 meter (typical)

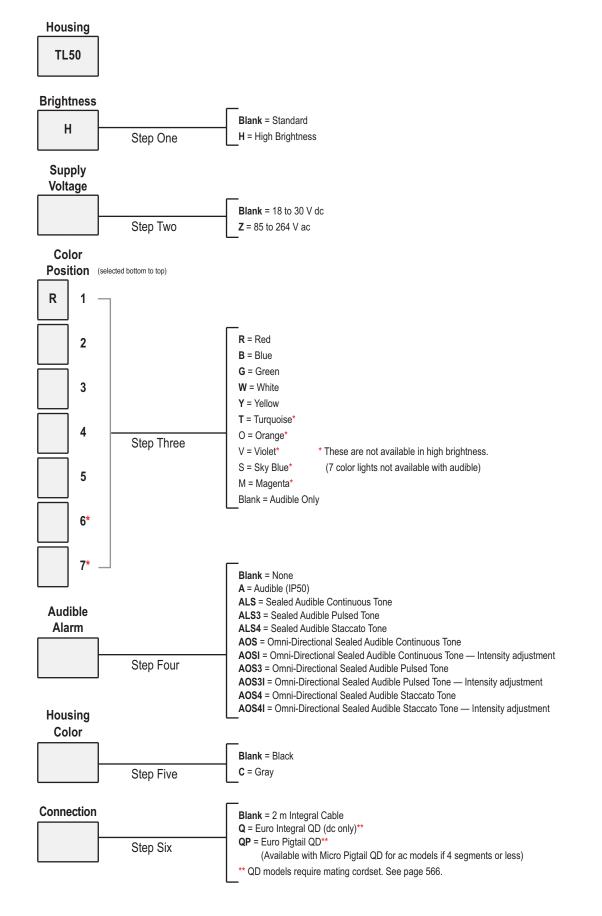
Light Position & Color Options



BANNER



Choosing a TL50 model Example Model Number TL50HGYRQ



LIGHTING & INDICATORS

LED LIGHTING

TOWER LIGHTS

IP67

INDICATORS







Sealed Omni-Directional

AC



TI 50

	Tower Height (H)	Tower Height (H)	Tower Height (H)	Tower Height (H)	Tower Height (H)
Color Count	General-Purpose IP67	Audible [†] IP50	Sealed Audible IP67	Sealed Omni-Directional IP67	AC
0	_	92.0 mm	74.4 mm	88.4 mm	
1	61.2 mm	92.0 mm	115.1 mm	129.1 mm	
2	101.9 mm	132.7 mm	155.8 mm	169.8 mm	Add 69 mm to any of these heights to get total height
3	142.6 mm	173.4 mm	196.5 mm	210.5 mm	neignis to get total neight
4	183.3 mm	214.1 mm	237.2 mm	—	
5	224.0 mm	254.8 mm	277.9 mm	291.1 mm	
6	264.7 mm	298.5 mm	318.6 mm	332.6 mm	_
7	305.4 mm	_	_	—	_

For more specifications see page 559.

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

SureCross[™] Wireless I/O & EZ-LIGHT[®] Indicators

Machine monitoring enables an entirely new category of applications and machine diagnostics free from wired limitation. Contact factory for information.



EZ-LIGHT TL50 Tower Lights are built-to-order, prewired and configured with easy mounting and connecting. Configure the model for your application today and we'll assemble it for you! Visit www.bannerengineering.com/towerlights





EZ-LIGHT[®] Tower Light Specifications

Supply Voltage and Current	DC models:				
	18 to 30 V dc (10% max. ripple); or 21 to 27 V ac Standard Brightness:				
	Indicators: 45 mA max. current per LED color				
	Standard Audible Alarm (IP50): @ 25 mA max. current				
	Sealed Audible Alarm (IP67): 35 mA max. current				
	High Brightness: max. current per LED color:				
	Indicators: 18 V dc—100 mA; 30 V dc—60 mA; 21 V ac—80 mA; 27 V ac—70 mA				
	Standard Audible (IP50): 25 mA max. current				
	Sealed Audible Alarm (IP67): 35 mA max. current				
	Audible only: @ 45mA max.				
	AC models:				
	85 to 264 V ac; 50 or 60 Hz				
Indicators	LEDs are independently selected— Green, Yellow, Red, Blue, White, Turquoise, Orange, Violet, Sky Blue or Magenta; 1-7 colors depending on model				
Supply Protection Circuity	Protected against reverse polarity and transient voltages				
Input Response Time	Indicators ON/OFF: 10 milliseconds (max.)				
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 (IP67), 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 version is recommended. Standard Audible Alarm: 2.7 KHz ± 500 Hz oscillation frequency; max. intensity 92 db @ 1 meter (typical) Sealed Audible Alarm: 29 KHz to 250 Hz oscillation frequency; max. intensity 94 db @ 1 meter (typical)				
Audible Adjustments	Standard Audible Alarm: Unscrew the cover (up to 1.5 turns max.) to adjust the audible intensity. (Do not exceed 1.5 turns				
, lauloio , lajaotinonto	or the cover may detach during operation.) For max, 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				
Construction	Bases and Covers—ABS Light Segment— Polycarbonate				
Environmental Rating	General-Purpose— IEC IP67 Audible— IEC IP50 or IEC IP67, depending on model				
Connections	Integral 4-pin, 5-pin or 8-pin Euro-style QD, 150 mm PVC pigtail with QD, or 2 m integral cable, depending on model				
Operating Conditions	General-Purpose: -40° to +50° C Audible: -20° to +50° C Relative Humidity: 95% @ 50° C (non-condensing) Storage Temperature: -40° to +70° C				
Certifications	CE				
Hookup Diagrams	4-pin models: LI09 (p. 1003) 5-pin: models: LI10 (p. 1003) 8-pin models: LI11 (p. 1003)				

INDICATORS





TL50 Beacon Tower Lights

Banner's TL50 Beacon Tower Lights are extremely rugged and built for use in the toughest industrial environments. A sleek and stylish design make it suitable for use in outdoor environments.

- · Highly visible indication for indoor or outdoor applications
- · Compact, stylish design with rotating and flashing options
- · Audible alert: continuous, pulsed and staccato models available
- Omni-Directional audible models provide clear annunciation in the noisiest environments
- · Models available with rugged, water-resistant IP67 housing
- · Cordsets and brackets see page 566

Audible Types



Audible max. intensity 92 db @ 1 meter (typical)



Sealed Audible max. intensity 94 db @ 1 meter (typical)



Sealed Omni-Directional Audible max. intensity 99 db @ 1 meter (typical)

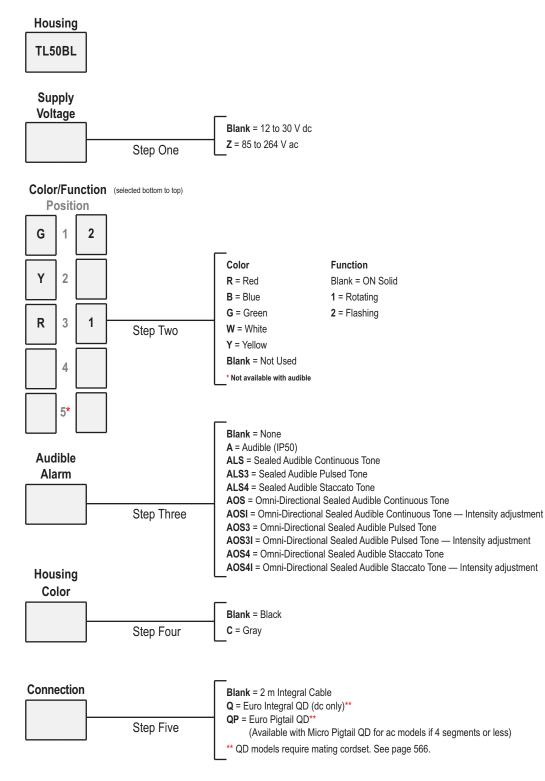
Light Position & Color Options





BANNER

Choosing a TL50BL model Example Model Number TL50BLG2YR1Q





TL50BL

Color Count	Tower Height (H) General-Purpose IP67	Tower Height (H) Audible⁺ IP50	Tower Height (H) Sealed Audible IP67	Tower Height (H) Sealed Omni-Directional IP67	Tower Height (H) AC
1	46.2 mm	77.1 mm	100.2 mm	129.1 mm	
2	72.0 mm	102.9 mm	126.0 mm	169.8 mm	
3	97.8 mm	128.7 mm	151.8 mm	210.5 mm	Add 69 mm to any of these heights to get total height
4	123.6 mm	154.5 mm	177.6 mm	_	
5	149.4 mm	_	—	-	

For more specifications see page 563.

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



Supply Voltage and Current	DC models: 12 to 30 V dc (10% max. ripple); or 21 to 27 V ac	
supply totage and surrent	Indicators — max. current per LED color:	
	@ 12 V dc: 125 mA	
	@ 30 V dc: 60 mA	
	@ 21 V ac: 80 mA	
	@ 27 V ac: 70 mA	
	Standard Audible Alarm: 25 mA max. current	
	Sealed Audible Alarm: 35 mA max. current	
	AC models: 85 to 264 V ac	
Indicators	1-5 colors depending on model; Green, Red, Yellow, Blue and White LEDs are independently selected	
Supply Protection Circuity	Protected against reverse polarity and transient voltages	
Input Response Time	1 ms (max.)	
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 version is recommended. Standard Audible Alarm: 2.7 KHz ± 500 Hz oscillation frequency; max. intensity 92 db @ 1 meter (typical) Sealed Audible Alarm: 2.9 KHz ± 250 Hz oscillation frequency; max. intensity 94 db @ 1 meter (typical)	
Audible Adjustments	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 and Omni-Directional Sealed Audible Alarm with Intensity Adjustment: Rotate the front cover until the desired intensity	
Construction	Bases and Covers: ABS Light Segment: Polycarbonate	
Environmental Rating	General-Purpose: -40° to +50° C Standard and Sealed Audible: -20° to +50° C Max. Rel. Humidity: 95% @ 50° C (non-condensing)	
Connections	Integral 4-pin, 5-pin or 8-pin M12/Euro-style QD, 150 mm PVC pigtail with QD, or 2 m (6.5') integral cable, depending on model. See page 566.	
Operating Conditions	Temperature: General-Purpose: -40° to +50° C Standard and Sealed Audible: -20° to +50° C Max. Rel. Humidity: 95% @ 50° C (non-condensing) Storage Temperature: -40° to +70° C	
Certifications		

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