

CL50 Column Light

Multi-Color General Purpose or Audible Indicators

Features



- Rugged, cost-effective and easy-to-install multi-color indicators
- Illuminated light provides easy-to-see operator guidance and indication of equipment status
- 1, 2, or 3 color models available
- Optional audible function with variable intensity
- Compact devices are completely self-contained — no controller needed
- Immune to ambient light, EMI and RFI interference
- 18 to 30V dc operation
- No assembly required

Multi-Color General-Purpose Models

Model	Colors	LED Function* – Lights Independently Selected			Connection**	Inputs
		Color 1	Color 2	Color 3		
CL50GXXPQ	1	Green	–	–	4-pin Euro integral QD connector	PNP
CL50GXXNQ		Green	–	–		NPN
CL50RXPQ		–	Red	–		PNP
CL50RXNQ		–	Red	–		NPN
CL50GRXPQ	2	Green	Red	–		PNP
CL50GRXNQ		Green	Red	–		NPN
CL50GRYPQ	3	Green	Red	Yellow		PNP
CL50GRYNQ		Green	Red	Yellow		NPN

Multi-Color Audible Models

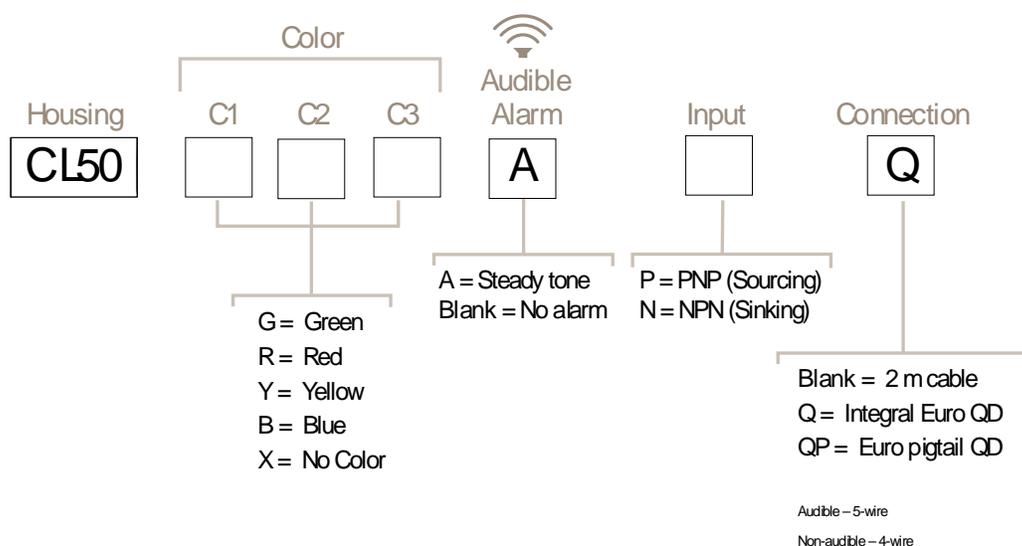
Model	Colors	LED Function* – Lights Independently Selected			Connection**	Inputs
		Color 1	Color 2	Color 3		
CL50GXXAPQ	1	Green	–	–	5-pin Euro integral QD connector	PNP
CL50GXXANQ		Green	–	–		NPN
CL50RXAPQ		–	Red	–		PNP
CL50RXANQ		–	Red	–		NPN
CL50GRXAPQ	2	Green	Red	–		PNP
CL50GRXANQ		Green	Red	–		NPN
CL50GRYAPQ	3	Green	Red	Yellow		PNP
CL50GRYANQ		Green	Red	Yellow		NPN

* Contact factory for other colors and color combinations.

** Integral QD models are listed.

- For 150 mm PVC pigtail with QD, replace **Q** with **QP** in model number (example, **CL50GRYPQP**).
- For 2 m (6.5') cable, omit suffix **Q** from model number (example, **CL50GRYP**).
- A model with a QD requires a mating cable (see [Quick-Disconnect \(QD\) Cordsets](#) on page 7).

Model Key*

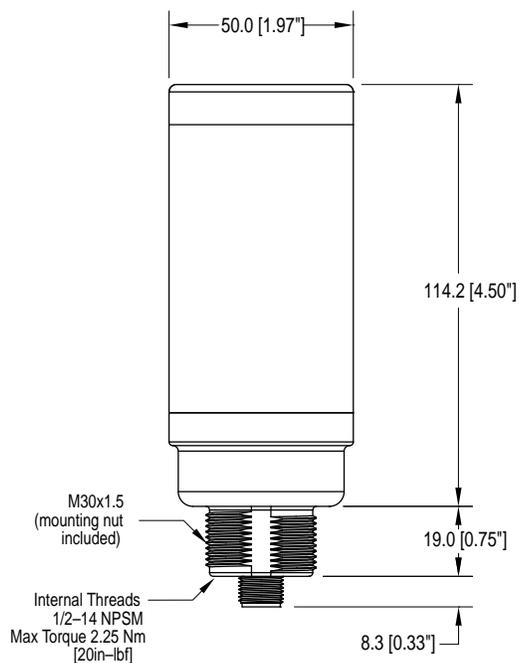


*Create your own model according to this key if the standard selection from page 1 does not meet your requirements. Consult factory for availability.

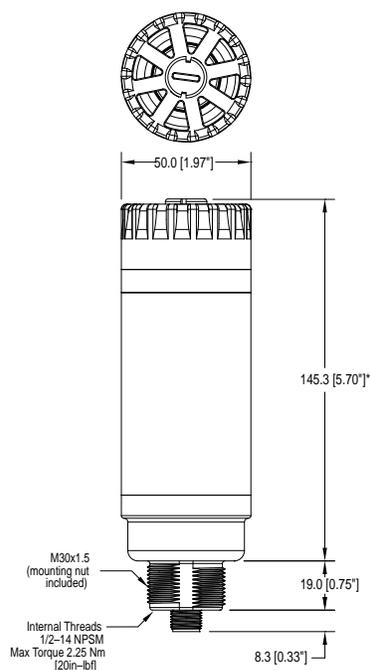
Specifications

Feature	Description
Supply Voltage and Current	18 to 30V dc (10% max. ripple) Indicators: @ 100 mA max. current at 18V dc; 70 mA max. current at 30V dc Audible Alarm: @ 25 mA max. current at 18 to 30V dc
Indicators	LEDs or audible alarm are independently selected: Green, Red, Yellow; 1-3 colors depending on model
Input Response Time	Indicator ON/OFF: 10 ms (max.)
Oscillation Frequency (Audible only)	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 or 5-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	

Multi-Color General-Purpose Dimensions



Multi-Color Audible Dimensions



Hookups – Multi-Color General-Purpose Models

Sourcing (PNP) Input	Sinking (NPN) Input	Key:
		<p>1 = Brown 2 = White 3 = Blue 4 = Black C1 = Color 1 C2 = Color 2 C3 = Color 3</p>
If there is an X in the model number, that corresponding wire will not be used		

Hookups – Multi-Color Audible Models

Sourcing (PNP) Input	Sinking (NPN) Input	Key:
		<p>1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray C1 = Color 1 C2 = Color 2 C3 = Color 3 A = Audible</p>
If there is an X in the model number, that corresponding wire will not be used		

Functional Truth Table: PNP Models

LED Function	Pin 4 (Black Wire)	Pin 1 (Brown Wire)	Pin 2 (White Wire)
Color 1 ON	+Vdc		
Color 2 ON		+Vdc	
Color 3 ON			+Vdc
Color 3 ON (color 3 inhibits color 1)	+Vdc		+Vdc
Color 2 ON (color 2 inhibits color 1)	+Vdc	+Vdc	
Color 3 ON (color 3 inhibits color 2)		+Vdc	+Vdc
Color 3 ON (color 3 inhibits colors 1 & 2)	+Vdc	+Vdc	+Vdc

NOTES:

- Pin 3 (blue wire) connected to ground (-)
- **Alarm models:** Alarm function is independent of light functions

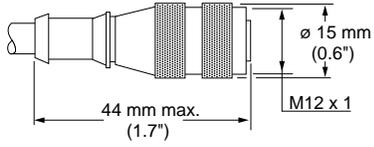
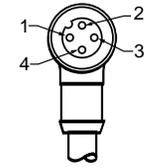
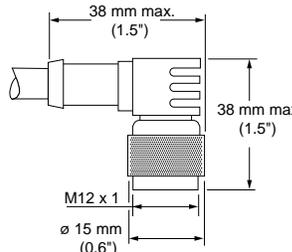
Functional Truth Table: NPN Models

LED Function	Pin 4 (Black Wire)	Pin 3 (Blue Wire)	Pin 2 (White Wire)
Color 1 ON	-Vdc		
Color 2 ON		-Vdc	
Color 3 ON			-Vdc
Color 3 ON (color 3 inhibits color 1)	-Vdc		-Vdc
Color 2 ON (color 2 inhibits color 1)	-Vdc	-Vdc	
Color 3 ON (color 3 inhibits color 2)		-Vdc	-Vdc
Color 3 ON (color 3 inhibits colors 1 & 2)	-Vdc	-Vdc	-Vdc

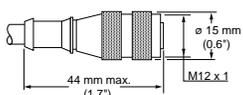
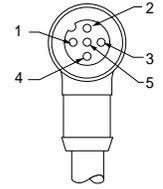
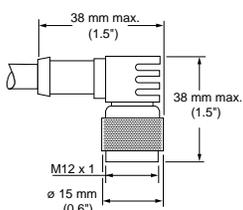
NOTES:

- Pin 1 (brown wire) connected to +Vdc
- **Alarm models:** Alarm function is independent of light functions

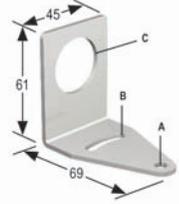
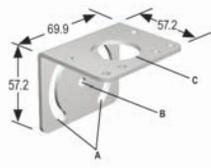
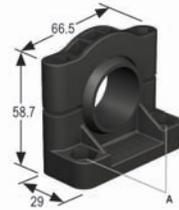
Quick-Disconnect (QD) Cordsets

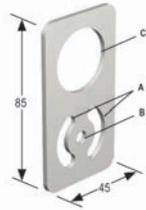
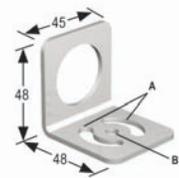
4-Pin Euro-Style Cables – Single-Ended				
Style	Model	Length	Dimensions	Pinout
4-pin Euro-style straight	MQDC-406	2 m (6.5')		
	MQDC-415	5 m (15')		
	MQDC-430	9 m (30')		
4-pin Euro-style Right-angle	MQDC-406RA	2 m (6.5')		<p>1 = Brown 2 = White 3 = Blue 4 = Black</p>
	MQDC-415RA	5 m (15')		
	MQDC-430RA	9 m (30')		

Quick-Disconnect (QD) Cordsets

5-Pin Euro-Style Cables – Single-Ended				
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')		<p>1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray</p>
	MQDC1-515RA	5 m (15')		
	MQDC1-530RA	9 m (30')		

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)
		<p>Hole center spacing: A to B=50.8</p> <p>Hole size: A=∅ 7.0</p>
<p>SMBAMS30P</p>	<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>Hole center spacing: A=26.0, A to B=13.0</p> <p>Hole size: A=26.8 x 7.0, B=∅ 6.5, C=∅ 31.0</p>
<p>SMBAMS30RA</p>	<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>Hole center spacing: A=26.0, A to B=13.0</p> <p>Hole size: A=26.8 x 7.0, B=∅ 6.5, C=∅ 31.0</p>

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.