

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
CL50RXXPQ		–	Red	–		PNP
CL50RXRNQ		–	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

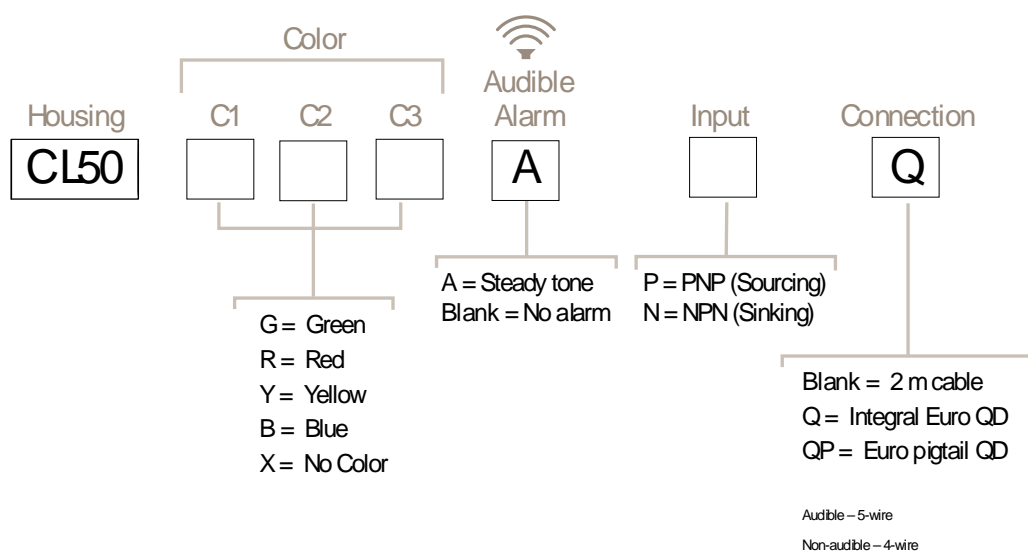
Model	Colors	LED Function* – Lights Independently Selected			Connection**	Inputs
		Color 1	Color 2	Color 3		
CL50GXXAPQ	1	Green	–	–	5-pin Euro integral QD connector	PNP
CL50GXXANQ		Green	–	–		NPN
CL50RXAPQ		–	Red	–		PNP
CL50RXANQ		–	Red	–		NPN
CL50GRXAPQ	2	Green	Red	–		PNP
CL50GRXANQ		Green	Red	–		NPN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

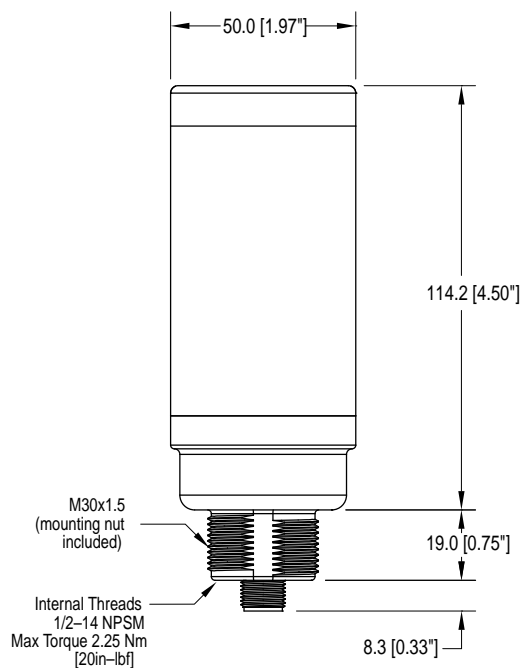


*Create your own model according to this key if the standard selection from page 1 does not meet your requirements. Consult factory for availability.

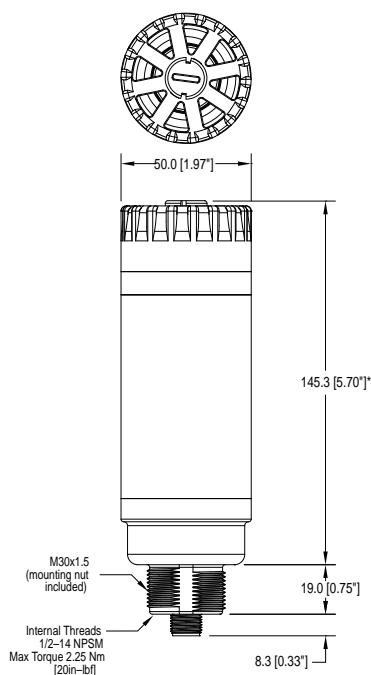
Specifications

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

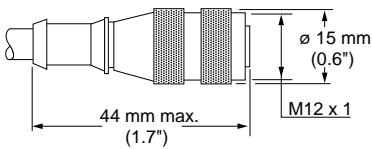
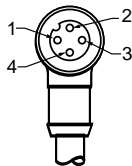
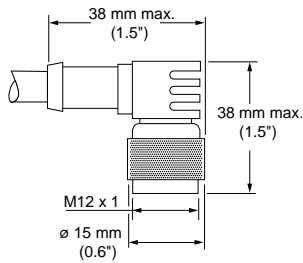
Functional Truth Table: NPN Models

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

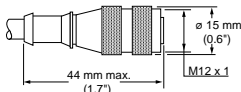
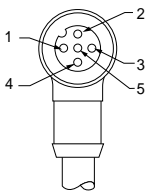
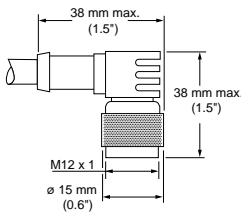
NOTES:

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

Quick-Disconnect (QD) Cordsets

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