EZ-LIGHT® K30L Series With Independent Push Button Contact

Features

Compact Indicator with One, Two, or Three Colors and a Momentary Push Button Output



- Rugged, cost-effective, and easy-to-install multicolor indicator light with pushbutton
- Waterproof IP65 construction for washdown environments
- Excellent for panel mounting or as a stand-alone device
- Immune to EMI and RFI interference
- 10 V DC to 30 V DC operation
- Cabled and Quick Disconnect models available
- Up to three independent colors in one unit

WARNING:

- **Do not use this device for personnel protection**
- Using this device for personnel protection could result in serious injury or death.
- This device does not include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A device failure or malfunction can cause either an energized (on) or de-energized (off) output condition.

Models

Family	Color 1	Color 2	Color 3	Input	Output	Connector[1]
K30L	G	R	Y	P	PB2	Q
	G = Green R = Red Y = Yellow B = Blue W = White O = Orange T = Turquoise V = Violet M = Magenta X = No color in this position			P = PNP	PB2 = Momentary Push Button	Blank = 2 m (6.5 ft) integral PVC-jacketed cable Q = Integral M12 male quick-disconnect connector QP = 150 mm (6 in) PVC-jacketed cable with an M12 male quick-disconnect connector

Example Model	# of LED Colors	LED Indicators	Connection
K30LGXXPPB2Q	1	Green	Integral 4-pin M12 male quick-disconnect connector
K30LRXXPPB2Q		Red	
K30LGRXPPB2Q	2	Green, Red	Integral 5-pin M12 male quick-disconnect connector
K30LGYXPPB2Q		Green, Yellow	
K30LGRYPPB2Q	3	Green, Red, Yellow	Integral 8-pin M12 male quick-disconnect connector

[1] Integral quick-disconnect connector models are listed.
- To order the 2 m (6.5 ft) PVC cable model, omit the suffix "Q" in the model number. For example, K30LGXXPPB2
- To order the 150 mm (6 in) PVC cable model, replace the suffix "Q" with "QP" in the model number. For example, K30LGXXPPB2QP
- Models with a quick-disconnect connector require a mating cordset.

Original Instructions
01-Oct-25

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162557
p/n: 162557 Rev. D

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

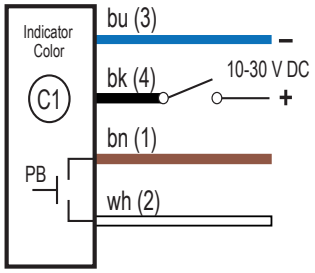
Installation

Install the K30 at a height and location that is easy for the user and/or supervisor to see the device, and comfortable for the user to press the push-button.

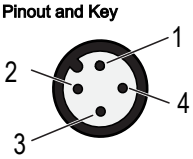
Wiring

4-Pin Models

PNP



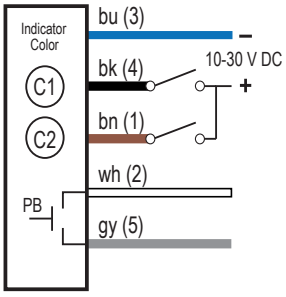
Pinout and Key



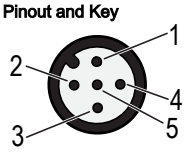
1 = Brown
2 = White
3 = Blue
4 = Black
C1 = Color 1
PB = Push Button

5-Pin Models

PNP



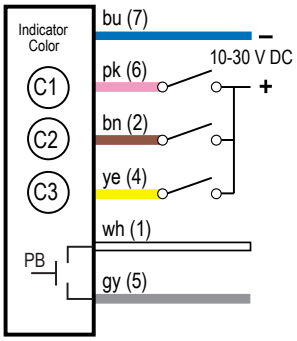
Pinout and Key



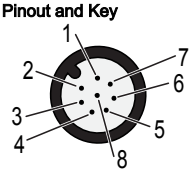
1 = Brown
2 = White
3 = Blue
4 = Black
5 = Gray
C1 = Color 1
C2 = Color 2
PB = Push Button

8-Pin Models

PNP



Pinout and Key



1 = White
2 = Brown
3 = Green (not used)
4 = Yellow
5 = Gray
6 = Pink
7 = Blue
8 = Red (not used)
C1 = Color 1
C2 = Color 2
C3 = Color 3
PB = Push Button

Specifications

Supply Voltage and Current
10 V DC to 30 V DC at 40 mA maximum per LED color

Supply Protection Circuitry
Protected against reverse polarity and transient voltages

Indicator Response Time
ON/OFF: 1 ms maximum

Switch Contact Rating
150 mA at 30 V DC

Contact Bounce
10 ms maximum

Environmental Rating
IP65
Enclosure Type 13

Construction
Base: polycarbonate
Translucent dome: polycarbonate
Push button: thermoplastic

Mounting Torque
2.25 Nm (20 in·lbf) max.

Connections
Integral 4-pin, 5-pin, or 8-pin M12 male quick-disconnect connector, 2 m (6.5 ft) integral PVC-jacketed cable, or 150 mm (6 in) PVC-jacketed cable with a 4-pin, 5-pin, or 8-pin M12 quick-disconnect connector, depending on the model ordered

Operating Conditions
–40 °C to +50 °C (–40 °F to +122 °F)
90% at +50 °C maximum relative humidity (non-condensing)
Storage Temperature: –40 °C to +70 °C (–40 °F to +158 °F)

Certifications

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Required Overcurrent Protection

WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table.

Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.

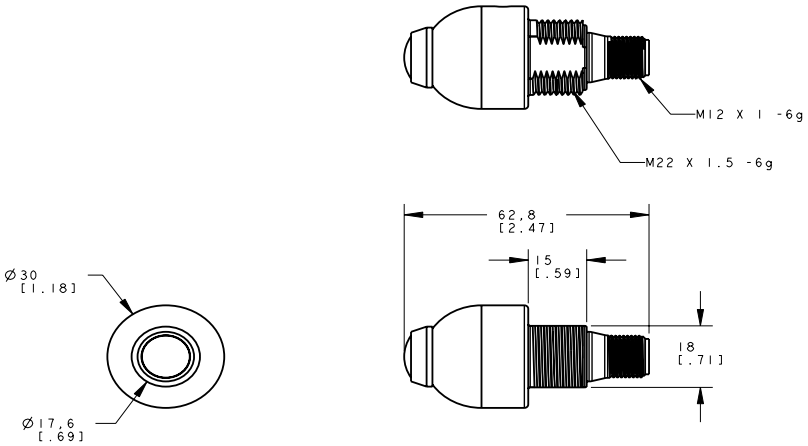
Supply wiring leads < 24 AWG shall not be spliced.

For additional product support, go to www.bannerengineering.com.

Supply Wiring (AWG)	Required Overcurrent Protection (A)	Supply Wiring (AWG)	Required Overcurrent Protection (A)
20	5.0	26	1.0
22	3.0	28	0.8
24	2.0	30	0.5

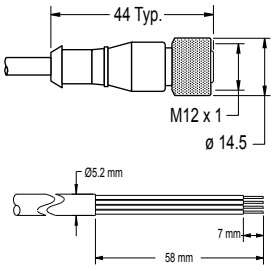
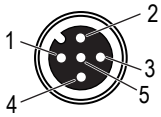
Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.

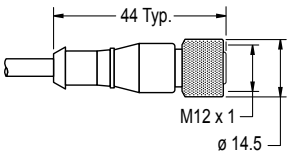
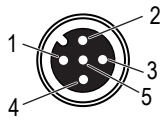
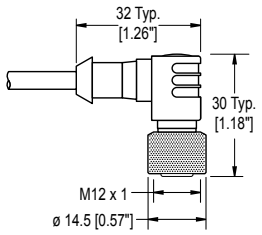


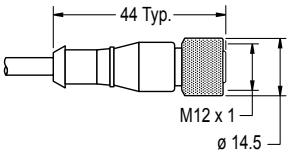
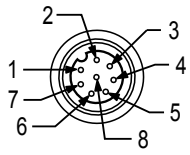
Accessories

Cordsets

4-Pin Single-Ended M12 Female Cordsets					
Model	**Length**	**Style**	**Dimensions**	**Pinout (Female)**	
MQDC-403	1 m (3.28 ft)	Straight			1 = Brown 2 = White 3 = Blue 4 = Black 5 = Not used
MQDC-406	2 m (6.56 ft)				
MQDC-410	3 m (9.8 ft)				
MQDC-415	5 m (16.4 ft)				
MQDC-430	9 m (29.5 ft)				
MQDC-450	15 m (49.2 ft)				
MQDC-460	18.3 m (60 ft)				
MQDC-470	21 m (68.9 ft)				
MQDC-4100	30 m (98.43 ft)				

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5-Pin Single-Ended M12 Female Cordsets				
Model	**Length**	**Style**	**Dimensions**	**Pinout (Female)**
MQDC1-501.5	0.5 m (1.5 ft)	Straight		 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
MQDC1-503	0.9 m (2.9 ft)			
MQDC1-506	2 m (6.5 ft)			
MQDC1-515	5 m (16.4 ft)			
MQDC1-530	9 m (29.5 ft)			
MQDC1-560	18 m (59 ft)			
MQDC1-5100	31 m (101.7 ft)			
MQDC1-506RA	2 m (6.5 ft)	Right-Angle		
MQDC1-515RA	5 m (16.4 ft)			
MQDC1-530RA	9 m (29.5 ft)			
MQDC1-560RA	19 m (62.3 ft)			

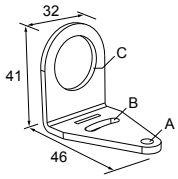
8-Pin Single-Ended M12 Female Shielded Cordsets					
Model	**Length**	**Style**	**Dimensions**	**Pinout (Female)**	
MQDC-806	2 m (6.56 ft)	Straight			
MQDC-815	5 m (16.4 ft)			1 = White 2 = Brown 3 = Green 4 = Yellow	5 = Gray 6 = Pink 7 = Blue 8 = Shield
MQDC-830	9 m (29.53 ft)				

Brackets

SMB22A

- Right-angle bracket with curved slot for versatile orientation
- 12-ga. stainless steel
- Mounting hole for 22 mm sensor

Hole center spacing: A to B = 26.0
Hole size: A = ø 4.6, B = 4.6 x 16.9, C = 22.2



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