## EZ-LIGHT<sup>®</sup> K30L Series With Independent Push Button Contact



# Datasheet

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 to 30V dc operation
- Cabled and Quick Disconnect models available
- Up to 3 independent colors in one unit



WARNING: Not To Be Used for Personnel Protection

Never use this device as a sensing device for personnel protection. Doing so could lead to serious injury or death. This device 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.

### Models

Family	Color 1	Color 2	Color 3	Input	Output	Connector <sup>1</sup>	
K30L	G	R	Y	Р	PB2	Q	
MODEL KEY	G = Green R = Red Y = Yellow B = Blue W = White	O = Orange T = Turquoise V = Violet M = Magenta X = No color in f	his position	P = PNP	PB2 = Momentary Push Button	Q = Integral M12/Euro-style QD Blank = 2 m (6.5 ft) PVC cable QP = 150 mm (6 in) PVC cable with M12/Euro-style QD	
Example Model		# of LED Colors	LED	LED Indicators		Connection	
K30LGXXPPB2Q		1		Green	4 -i= M12	- 4-pin M12/Euro-style integral QD	
K30LRXXPPB2Q				Red	4-pin wi12/		
K30LGRXPPB2Q		2	G	Green, Red	E pip M12/	5-pin M12/Euro-style integral QD	
K30LGYXPPB2Q		2	Gr	een, Yellow	5-piñ MT2/		
K30LGRYPPB2Q		3	Gree	Green, Red, Yellow		8-pin M12/Euro-style integral QD	

### Installation

Install the K30 sensor at such a height and in a location that will be easy for the user and/or supervisor to see the indicator and comfortable for the user to press the push-button.

<sup>1</sup> Integral quick disconnect models are listed.

<sup>•</sup> To order the 2 m (6.5 ft) PVC cable model, omit the suffix "Q" in the model number. For example, K30LGXXPPB2

<sup>•</sup> To order the 150 mm (6 in) PVC cable model, replace the suffix "Q" with "QP" in the model number. For example, K30LGXXPPB2QP

<sup>•</sup> Models with a quick disconnect require a mating cordset.

### Wiring







## 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 max Environmental Rating IEC IP65 Enclosure Type 13 Construction Base: polycarbonate Translucent dome: polycarbonate Push button: thermoplastic Mounting Torque

2.25 Nm (20 in lbf) max.

Connections

Integral M12/Euro-style quick disconnect (QD), 2 m (6.5 ft) unterminated PVC-jacketed cable or 150 mm (6 in) PVC cable with a quick disconnect (QD), 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)



All measurements are listed in millimeters [inches], unless noted otherwise.

#### 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 (Amps)		
20	5.0		
22	3.0		
24	2.0		
26	1.0		
28	0.8		
30	0.5		

Certifications





### Accessories

## Quick-Disconnect (QD) Cordsets

4-Pin Threaded M12/Euro-Style Cordsets						
Model	Length	Style	Dimensions	Pinout (Female)		
MQDC-406	1.83 m (6 ft)					
MQDC-415	4.57 m (15 ft)	_	<u> </u> →	1-2-2		
MQDC-430	9.14 m (30 ft)					
MQDC-450	15.2 m (50 ft)	Straight	€ M12 x1 → ₀14.5 →	1 = Brown 2 = White 3 = Blue 4 = Black		

5-Pin Threaded M12/Euro-Style Cordsets—Single Ended						
Model	Length		Dimensions	Pinout (Female)		
MQDC1-501.5	0.50 m (1.5 ft)		<del>→</del> 44 Typ			
MQDC1-506	1.83 m (6 ft)					
MQDC1-515	4.57 m (15 ft)	Straight				
MQDC1-530	9.14 m (30 ft)		M12 x 1 → ø 14.5 →			
MQDC1-506RA	1.83 m (6 ft)		32 Typ. [1.26"] 30 Typ. [1.18"] 0 14.5 [0.57"] 31 Typ. (1.18"] 0 14.5 [0.57"]			
MQDC1-515RA	4.57 m (15 ft)			1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray		
MQDC1-530RA	9.14 m (30 ft)	Right-Angle				

8-Pin Threaded M12/Euro-Style Cordsets with Shield						
Model	Length Style Dimensions		Pinout (Female)			
MQDC-806	1.83 m (6 ft)	Straight	44 Typ.	$\begin{array}{c} 2 \\ 1 \\ 7 \\ 6 \end{array} \begin{array}{c} 6 \\ 8 \end{array} \begin{array}{c} 3 \\ 4 \\ 5 \\ 8 \end{array}$		
MQDC-815	4.57 m (15 ft)			ø 14.5	1 = White 2 = Brown	5 = Gray 6 = Pink
MQDC-830	9.14 m (30 ft)			2 = Brown 3 = Green 4 = Yellow	6 = PIIIK 7 = Blue 8 = Shield	

### 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 = 26.0Hole size: A =  $\emptyset$  4.6, B = 4.6 x 16.9, C = 22.2

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