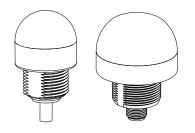
# EZ-LIGHT® K30L and K50L Intrinsically Safe Indicators





- For use in hazardous areas with suitable zener barriers or galvanic isolators
- · ATEX and IECEx certifications
- Fully sealed and rated to IP67/IP69K
- 1-, 2-, or 3-color models available; 5 available colors

# Models

	Family		Color 1	Color 2	Color 3	Input	Connection
Example:	K50L	El	G	R	Y	Р	Q
	K30L K50L	I = EX ia	G = Green R = Red Y = Yellow B = Blue W = White X = No color		P = PNP	Q = 4-pin integral Euro QD <sup>11</sup> Blank = 2 m PVC integral cable W/XX = XX ft cable QP = 4-pin Euro PVC Pigtail QD	

### K30L Models

Model	Connection <sup>2</sup>	LED Function	Input
K30LIGXXPQP		1 Color: Green	
K30LIYXXPQP		1 Color: Yellow	
K30LIRXXPQP		1 Color: Red	
K30LIBXXPQP		1 Color: Blue	
K30LIWXXPQP	4-pin Euro PVC Pigtail Quick Discon- nect	1 Color: White	PNP
K30LIGRXPQP		2 Color: Green, Red	
K30LIGYXPQP		2 Color: Green, Yellow	
K30LIGYXPQP		2 Color: Red, Yellow	
K30LIGRYPQP		3 Color: Green, Red, Yellow	



#### K50L Models

Model <sup>3</sup>	Connection <sup>4</sup>	LED Function	Input
K50LIGXXPQ		1 Color: Green	
K50LIYXXPQ		1 Color: Yellow	
K50LIRXXPQ		1 Color: Red	
K50LIBXXPQ		1 Color: Blue	
K50LIWXXPQ	4-pin Euro Quick Disconnect	1 Color: White	PNP
K50LIGRXPQ		2 Color: Green, Red	
K50LIGYXPQ		2 Color: Green, Yellow	
K50LIGYXPQ		2 Color: Red, Yellow	
K50LIGRYPQ		3 Color: Green, Red, Yellow	

### **General Notes**

- 1. The dust rating of enclosures/panels may be invalidated by the installation of the EZ-LIGHT(s). The installation of the EZ-LIGHT(s) in a particular enclosure/panel is subject to the evaluation/acceptance of the applicable approval agency.
- 2. Installation shall be carried out in accordance with the applicable code of practice by suitable trained personnel.
- 3. Repair of this equipment shall be carried out in accordance with the applicable code of practice.
- 4. The X suffix to the certificate number indicates that there is a special condition for safe use, which is that the non-conducting materials of the enclosures may be susceptible to electrostatic charging and precautions must be taken to avoid this.
- If the equipment is likely to come into contact with aggressive substances<sup>5</sup>, then it is the responsibility of the user to take suitable precautions<sup>6</sup> that prevent it from being adversely affected, thus ensuring that the type of protection is not compromised.
- 6. Clean with a damp cloth only.
- 7. For indicators with multiple colors, only one color is intended to be on at a time.

### **Specifications**

#### Supply Voltage and Current

See Configuration on page 4 for safety parameters

#### Indicators

Entire translucent diffuser or dome provides indication. LEDs are independently selected: Green, Red, or Yellow; 2 or 3 colors, depending on model. For other colors/ combinations, contact Banner Engineering for availability.

#### Construction

Base: polycarbonate Translucent dome: polycarbonate

### Approvals

ATEX/IECEx Gas and Vapors: II 1 G Ex ia IIC T4 Ga (Group IIC Zone 0) Dust: II 1 D Ex ia IIIC T130°C Da (Group IIIC Zone 20) Mines: I M1 Ex ia I Ma (Methane) Sira 13ATEX2058X IECEx Sir 13.0020X

#### Connections

K30: 2 m (6.5 ft) PVC integral cable, or 150 mm (5.9 in) 4-pin Euro PVC Pigtail QD

**K50:** 4-pin Euro integral QD, 2 m (6.5 ft) PVC integral cable, or 150 mm (5.9 in) 4-pin Euro PVC Pigtail QD

#### **Environmental Rating**

#### IP67/IP69K

### **Operating Conditions**

-40 °C to +50 °C (-40 °F to +122 °F) or -40 °C to +40 °C (-40 °F to +104 °F), depending on model

Certifications



A model with a QD requires a mating cordset (see Cordsets on page 6).

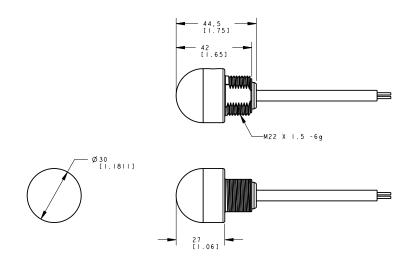
<sup>&</sup>lt;sup>3</sup> For 4-pin Euro PVC Pigtail QD Models, replace suffix "Q" with "QP" in the model number (K50LIGXXPQP).

<sup>&</sup>lt;sup>5</sup> Aggressive substances—for example, acidic liquids or gases that may attack metals, or solvents that may affect polymeric materials.

<sup>&</sup>lt;sup>6</sup> Suitable precaution—for example, regular checks as part of routine inspections or establishing from the materials data sheet that it is resistant to specific chemicals.

# Dimensions

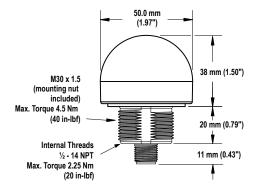
K30L Cabled Models

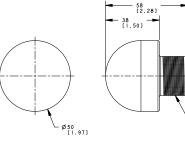


K50L Quick Disconnect Models

K50L Cabled Models

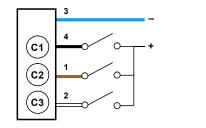
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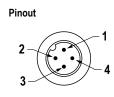




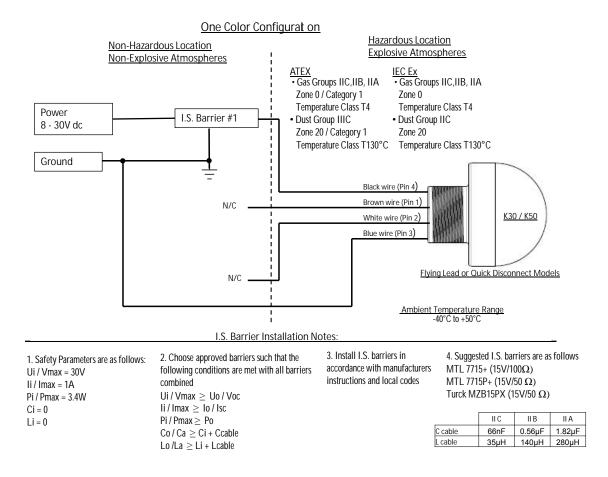
# Hookups

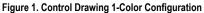


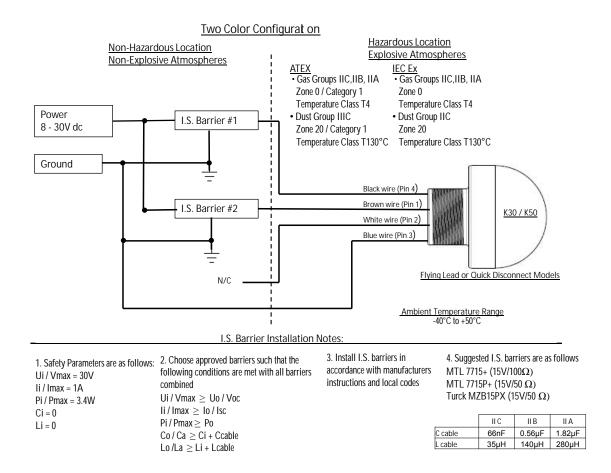
1 = Brown 2 = White
2 - M/hito
3 = Blue
4 = Black
Color Key
C1 = Color 1
C2 = Color 2
C3 = Color 3

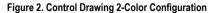


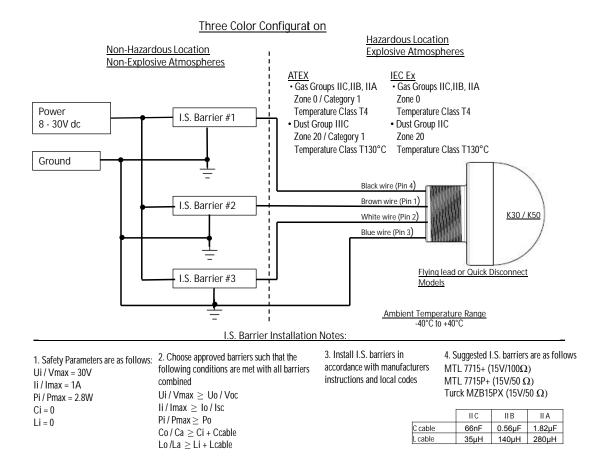
# Configuration











#### Figure 3. Control Drawing 3-Color Configuration

## Cordsets

4-Pin Threaded M12/Euro-Style Cordsets					
Model Length		Style Dimensions		Pinout	
MQDC-406	1.83 m (6 ft)		44 Typ		
MQDC-415	4.57 m (15 ft)	Charlisht		1 = Brown $2 = White$ $3 = Blue$ $4 = Black$	
MQDC-430	9.14 m (30 ft)	Straight	M12 x 1		
MQDC-450	15.2 m (50 ft)	1			
MQDC-406RA	1.83 m (6 ft)		32 Typ.		
MQDC-415RA	4.57 m (15 ft)	1	[1.26"]		
MQDC-430RA	9.14 m (30 ft)				
MQDC-450RA	15.2 m (50 ft)	Right-Angle	M12 x 1 - +		

# **Banner Engineering Corp Limited Warranty**

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for one year following the date of shipment. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture which, at the time it is returned to the factory, is found to have been defective during the warranty period. This warranty does not cover damage or liability for misuse, abuse, or the improper application or installation of the Banner product.

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more sensors, more solutions