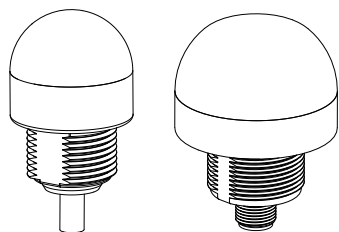


EZ-LIGHT® K30L and K50L Hazardous Area (Ex nA) Indicators

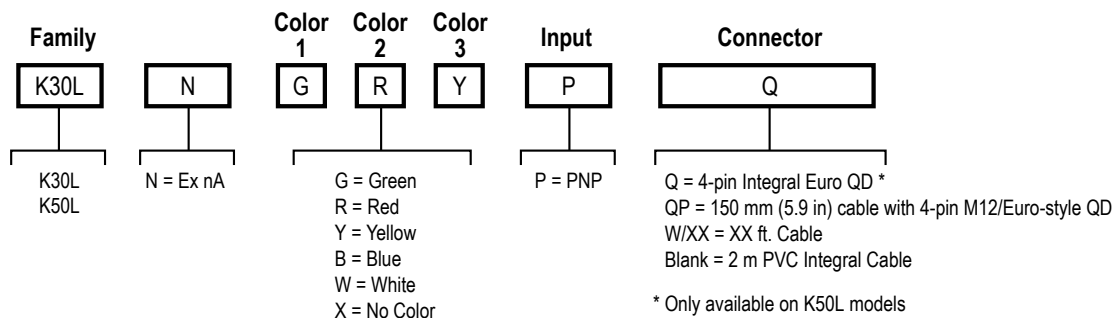


Datasheet



- For use in hazardous areas
- ATEX, CSA c/us, and IECEx certifications
- Fully sealed and rated to IP67/IP69K
- 1-, 2-, or 3-color models available; 5 available colors

Models



K30L Models

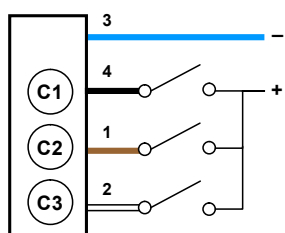
Model	Connection	LED Function	Input
K30LNGXXP	2 m (6.5 ft) PVC integral cable	1 Color: Green	PNP
K30LNYXXP		1 Color: Yellow	
K30LNRXXP		1 Color: Red	
K30LNBXXP		1 Color: Blue	
K30LNWXXP		1 Color: White	
K30LNGRXP		2 Color: Green, Red	
K30LNGYXP		2 Color: Green, Yellow	
K30LNGYXP		2 Color: Red, Yellow	
K30LNGRYP		3 Color: Green, Red, Yellow	



K50L Models

Model	Connection ¹	LED Function	Input
K50LNGXXPQ	4-pin M12/Euro integral quick disconnect	1 Color: Green	PNP
K50LNYXXPQ		1 Color: Yellow	
K50LNRXXPQ		1 Color: Red	
K50LNBXXPQ		1 Color: Blue	
K50LNWXXPQ		1 Color: White	
K50LNGRXPQ		2 Color: Green, Red	
K50LNGYXPQ		2 Color: Green, Yellow	
K50LNGYXPQ		2 Color: Red, Yellow	
K50LNGRYPQ		3 Color: Green, Red, Yellow	

Wiring Diagram



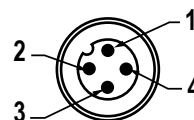
Wiring Key

- 1 = Brown
- 2 = White
- 3 = Blue
- 4 = Black

Color Key

- C1 = Color 1
- C2 = Color 2
- C3 = Color 3

Pinout



General Notes and Conditions for Safe Use

- 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.
- For K50L installations in Dust Atmospheres, use the female NPT conduit entry with applicable wiring methods in accordance with Canadian Electrical Code (Canada) and National Electrical Code (United States).
- The user has the responsibility to ensure that all local, state, and national laws, rules, codes, or regulations relating to the installation and use of this Banner device in any particular application are satisfied. This Banner device must be installed by Qualified Persons², in accordance with this document and applicable regulations.
- Do not attempt any repairs to this Banner device; it contains no field-replaceable parts or components.
- The nonconducting materials of this device may be susceptible to ignition-capable level of electrostatic charging and precautions must be taken to avoid this. The user/installer shall ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which are conducive to creating a build-up of electrostatic charges.
- If the equipment is likely to come into contact with aggressive substances³, then it is the responsibility of the user to take suitable precautions⁴ that prevent it from being adversely affected, thus ensuring that the type of protection is not compromised.
- Clean with a damp cloth only.
- For indicators with multiple colors, only one color is intended to be on at a time.
- The 30 V rated supply shall be protected such that transients are limited to a maximum of 42 V.
- For installation of models with a "Q" suffix, the quick disconnect connector must be protected when installed, to maintain IP67 or IP69K ingress protection.

¹ To order the 150 mm (6 in) PVC cable model with a 4-pin M12/Euro-style quick disconnect, replace the suffix "Q" with "QP" in the model number. For example, K50LIGXXPQP. Models with a quick disconnect require a mating cordset.

² A person who, by possession of a recognized degree or certification of professional training, or who, by extensive knowledge, training and experience, has successfully demonstrated the ability to solve problems relating to the subject matter and work.

³ Aggressive substances—for example, acidic liquids or gases that may attack metals, or solvents that may affect polymeric materials.

⁴ 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.

Specifications

Supply Voltage and Current

10 V dc to 30 V dc (25 mA max.)

Indicators

Entire translucent diffuser or dome provides indication. LEDs are independently selected: Green, Red, Amber, Blue, or White; 1, 2, or 3 colors, depending on model. For other colors/ combinations, contact Banner Engineering for availability.

Construction

Base: polycarbonate

Translucent dome: polycarbonate

Approvals

CSA-c/us

Gas & Vapors: Class I Zone 2 AEx/Ex nA IIC T4 Gc / Class I Div 2 Groups ABCD

Dust: Class II Zone 22 AEx/Ex tc IIIC T135°C Dc / Class II Div 2

Groups EFG, Class III Div 2 (K50L only)

CSA 14.2679646

ATEX / IECEx

Gas & Vapours: II 3 G Ex nA IIC T4 Gc (Group IIC Zone 2)

Dust: II 3 D Ex tc IIIC T135°C Dc (Group IIIC Zone 22)

Sira 13ATEX4271X

IECEx Sir 13.0099X

Connections

K30: 2 m (6.5 ft) PVC integral cable, or 150 mm (5.9 in) PVC cable with 4-pin M12/Euro quick disconnect

K50: 4-pin M12/Euro integral quick disconnect, 2 m (6.5 ft) PVC integral cable, or 150 mm (5.9 in) PVC cable with 4-pin M12/Euro quick disconnect

Environmental Rating

IEC IP67/IEC IP69K

Operating Conditions

TA = -40 °C to +50 °C (-40 °F to +122 °F)

Certifications



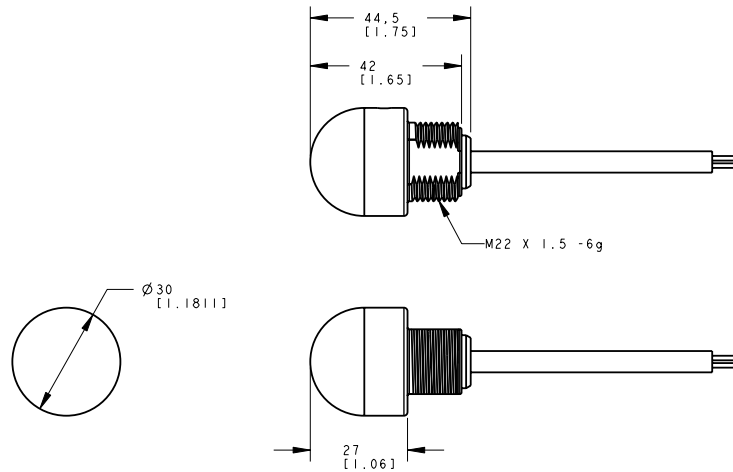
IEC IECEx SIR 13.0099X

ATEX Sira 13ATEX4271X

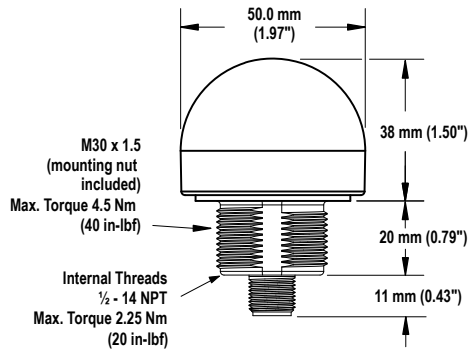
CSA CoC 2679646

Dimensions

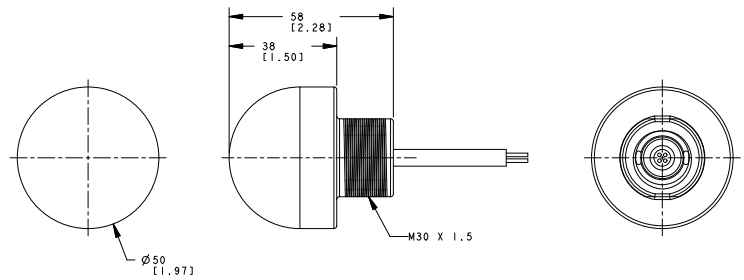
K30L Cabled Models



K50L Quick Disconnect Models



K50L Cabled Models



Cordsets

4-Pin Threaded M12/Euro-Style Cordsets				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC-406	1.83 m (6 ft)	Straight		
MQDC-415	4.57 m (15 ft)			
MQDC-430	9.14 m (30 ft)			
MQDC-450	15.2 m (50 ft)			
MQDC-406RA	1.83 m (6 ft)	Right-Angle		
MQDC-415RA	4.57 m (15 ft)			
MQDC-430RA	9.14 m (30 ft)			
MQDC-450RA	15.2 m (50 ft)			

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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