

EZ-LIGHT® One-Color General-Purpose Indicators



Datasheet

To view or download the latest technical information about this product, including specifications, dimensions, accessories, and wiring, see www.bannerengineering.com.

Models

Models ¹		LED Color ²
	T8LGXXPQ	Color 1: Green
	T8LXXRPQ	Color 2: Red
	T8LXXYPQ	Color 3: Yellow
	- Polycarbonate/ABS alloy housing, thermoplastic diffuser. - IP67	
	M18GXXPQ	Color 1: Green
	M18XXRPQ	Color 2: Red
	M18XXYPQ	Color 3: Yellow
	- Nickel-plated brass housing, thermoplastic diffuser. - Fully encapsulated IP67	
	T18GXXPQ	Color 1: Green
	T18XXRPQ	Color 2: Red
	T18XXYPQ	Color 3: Yellow
	- Thermoplastic polyester housing, thermoplastic diffuser. - Fully encapsulated IP67	
	T30GXXPQ	Color 1: Green
	T30XXRPQ	Color 2: Red
	T30XXYPQ	Color 3: Yellow
	- Thermoplastic polyester housing, thermoplastic diffuser. - Fully encapsulated IP67	
Models ¹		LED Color ²
	K30LGXXPQ	Color 1: Green
	K30LXXRPQ	Color 2: Red
	K30LXXYPQ	Color 3: Yellow
	22 mm threaded polycarbonate base, translucent polycarbonate dome. - Fully encapsulated IP67, IP69K	
	K50LGXXPQ	Color 1: Green
	K50LXXRPQ	Color 2: Red
	K50LXXYPQ	Color 3: Yellow
	30 mm threaded polycarbonate base, translucent polycarbonate dome. - Fully encapsulated IP67, IP69K	
	K50FLGXXPQ	Color 1: Green
	K50FLXXRPQ	Color 2: Red
	K50FLXXYPQ	Color 3: Yellow
	- ABS base, translucent polycarbonate dome. - Fully encapsulated IP67, IP69K	
	K80LGXXPQ	Color 1: Green
	K80LXXRPQ	Color 2: Red
	K80LXXYPQ	Color 3: Yellow
	- Polycarbonate base, translucent polycarbonate dome. - Electronics fully encapsulated IP67	



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.

¹

- T8L Models:** Standard QD models are listed. To order the integral 4-wire cable model, omit the suffix QP. For example, T8LGXXP.
- K30FL Models:** Standard 4-pin M12/Euro-style integral QD connector models are listed. For 2 m (6.5 ft) integral 4-wire cable model, omit suffix Q. For example, K30LGRXP. For 150 mm (6 inch) PVC cable with 4-pin M12/Euro-style connector, replace suffix Q with QP. For example, K30LGRXPQ. For terminal model, replace suffix Q with T. For example, K30LGRXPT.
- K80L Models:** Standard 4-pin Euro integral QD connector models are listed. To order the terminal-wired model, omit suffix Q. For example, K80LGXXP.
- Other Models:** Standard 4-pin M12/Euro-style integral QD connector models are listed. To order the 2 m (6.5 ft) integral 4-wire cable model, omit suffix Q. For example, M18GXXP. To order the 150 mm (6 inch) PVC cable with 4-pin M12/Euro-style connector, replace suffix Q with QP. For example, M18GXXPQ.
- Models with a quick disconnect require a mating cordset.

² Contact Banner Engineering for other colors and color combinations.



Specifications

Supply Voltage and Current

T8L models: 10 V dc to 30 V dc at 20 mA maximum

T18, M18, and K30L models: 10 V dc to 30 V dc at 25 mA maximum per LED color

T30 models: 10 V dc to 30 V dc at 40 mA maximum per LED color

K50L, K50FL, and K80L models: 18 V dc to 30 V dc at 40 mA maximum per LED color

Indicators

Entire translucent diffuser or dome provides indication. Green and yellow, when connected to discrete output of 3-wire or 4-wire sensors. For other colors, contact factory for availability.

Input Response Time

Indicator ON/OFF: 1 ms max.

Environmental Rating

Rated IEC IP67. T8L not encapsulated; K80L has encapsulated electronics only; other models fully encapsulated.

K30L, K50L, and K50FL QD models meet IP69K, per DIN 40050-9. Cabled models also meet IP69K if the cable and cable entrance are protected from high-pressure spray.

Operating Conditions

Temperature: -40 °C to +50 °C (-40 °F to +122 °F)

Certifications



K30L and K50L models only:



US LISTED

Connections

T8L models: 4-pin M12/Euro-style 150 mm (6 in) PVC cable with QD (QP) or 4-wire, 2 m (6.5 ft) integral cable, depending on model

K30L models: 4-pin M12/Euro-style QD (Q), 150mm (6") PVC cable with QD (QP), 4-wire, 2 m (6.5 ft) integral cable, or 5 color-coded screw terminal for up to 16 AWG wire, depending on model. Screw terminal max torque: 0.11N-m (1.0lbf-in).

K80L models: 4-pin M12/Euro-style integral QD (Q) standard; terminal-wired models available for use with bulk cable; compression fitting optional. Contact Factory for cable information.

Other models: 4-pin /M12/Euro-style integral QD (Q), 150 mm (6 in) PVC cable with QD (QP), or 4-wire, 2 m (6.5 ft) integral cable, depending on model

Construction

See Models lists

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.

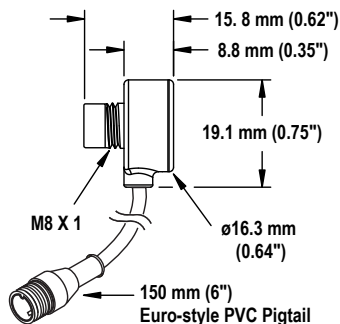
Supply wiring leads < 24 AWG shall not be spliced.

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

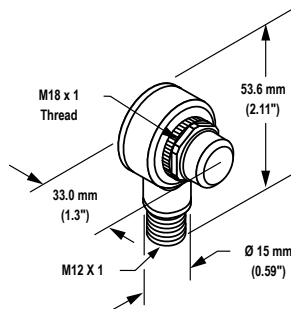
Supply Wiring (AWG)	Required Overcurrent Protection (Amps)
20	5.0
22	3.0
24	2.0
26	1.0
28	0.8
30	0.5

Dimensions

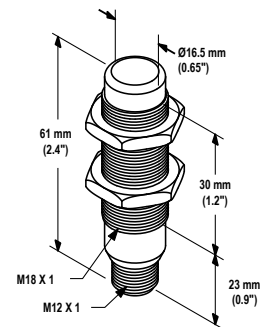
T8L Models

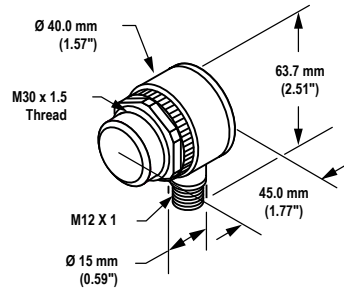
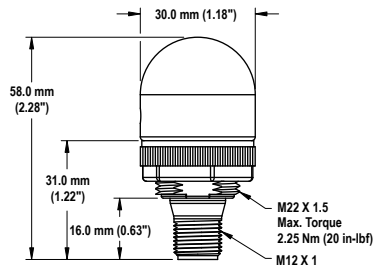
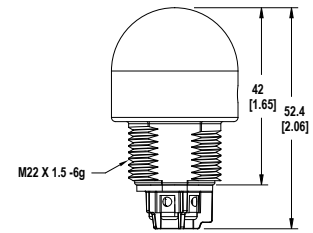
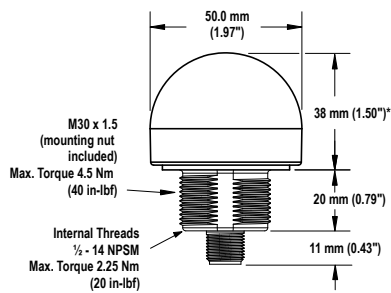
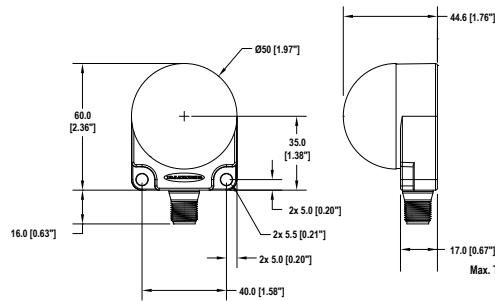
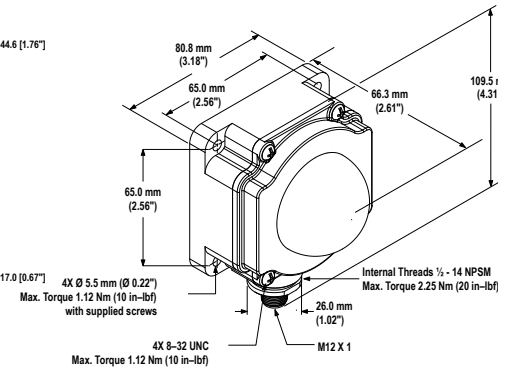


T18 Models



M18 Models



T30 Models**K30L Models****K30 Terminal Models****K50L Models****K50FL Models****K80L Models****Wiring**

For NPN Operation		
Color 1	Color 2	Color 3
Pin 1 and Pin 2 not used	Pin 4 and Pin 2 not used	Pin 1 and Pin 4 not used

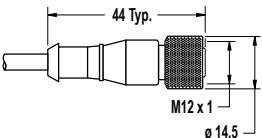
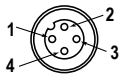
For PNP Operation		
Color 1	Color 2	Color 3
Pin 1 and Pin 2 not used	Pin 4 and Pin 2 not used	Pin 1 and Pin 4 not used

Wiring Key

1. Brown (bn)
2. White (wh)

3. Blue (bu)
4. Black (bk)

Accessories

4-Pin Threaded M12/Euro-Style Cordsets—Single Ended				
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		1 = Brown 2 = White 3 = Blue 4 = Black
MQDC-415RA	4.57 m (15 ft)			
MQDC-430RA	9.14 m (30 ft)			
MQDC-450RA	15.2 m (50 ft)			

Brackets

For use with T8L models:
SMB8MM

For use with M18 and T18
models or base-mount T30
models:

- SMB18A
- SMB1815SF
- SMB18Q
- SMB18SF
- SMB312PD
- SMBAMS18RA
- SMBAMS18P

For use with T30 models or
base-mount K50L models:

- SMB30A
- SMBAMS30RA
- SMBAMS30P
- SMB30SC
- SMB30MM
- SMB3018SC

DIN-mount bracket for K80L
models:

SMBDX80D

For more information about these and other available brackets, visit www.bannerengineering.com. K50FL models include a 48 mm (1.9") circular hook-and-loop mounting kit for easy mounting with no additional hardware required.

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