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]
	T8LGXXPQP	Green
	T8LXRXPQP	Red
	T8LXXYPQP	Yellow
	• Polycarbonate/ABS alloy housing, thermoplastic diffuser. • IP67	
	M18GXXPQ	Green
	M18XRXPQ	Red
	M18XXYPQ	Yellow
	• Nickel-plated brass housing, thermoplastic diffuser. • Fully encapsulated IP67	
	T18GXXPQ	Green
	T18XRXPQ	Red
	T18XXYPQ	Yellow
	• Thermoplastic polyester housing, thermoplastic diffuser. • Fully encapsulated IP67	
	T30GXXPQ	Green
	T30XRXPQ	Red
	T30XXYPQ	Yellow
	• Thermoplastic polyester housing, thermoplastic diffuser. • Fully encapsulated IP67	

	Models[1]	LED Color[2]
	K30LGXXPQ	Green
	K30LXRXPQ	Red
	K30LXXYPQ	Yellow
	• 22 mm threaded polycarbonate base, translucent polycarbonate dome. • Fully encapsulated IP67, IP69K	
	K50LGXXPQ	Green
	K50LXRXPQ	Red
	K50LXXYPQ	Yellow
	• 30 mm threaded polycarbonate base, translucent polycarbonate dome. • Fully encapsulated IP67, IP69K	
	K50FLGXXPQ	Green
	K50FLXRXPQ	Red
	K50FLXXYPQ	Yellow
	• ABS base, translucent polycarbonate dome. • Fully encapsulated IP67, IP69K	
	K80LGXXPQ	Green
	K80LXRXPQ	Red
	K80LXXYPQ	Yellow
	• Polycarbonate base, translucent polycarbonate dome. • Electronics fully encapsulated IP67	

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.

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, K30LGRXPQP. 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, M18GXXPQP.
- 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

CE

K30L and K50L models only: c UL 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**

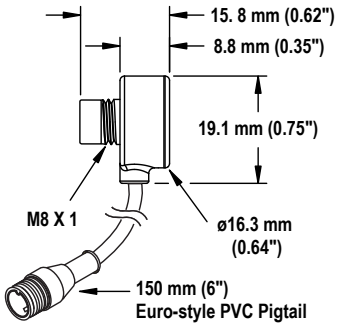
WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

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*.

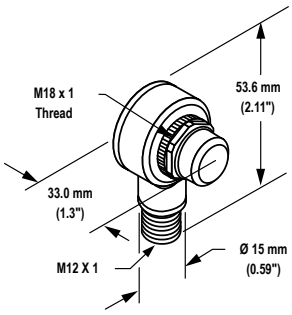
Supply Wiring (AWG)	Required Overcurrent **Protection** (Amps)
20	5.0
22	3.0
24	2.0
26	1.0
28	0.8
30	0.5

Dimensions

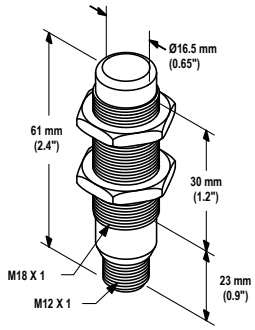
T8L Models



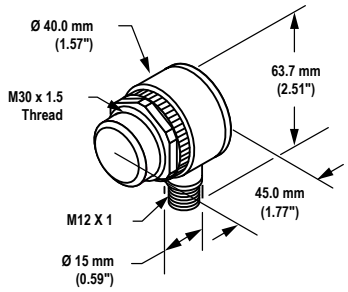
T18 Models

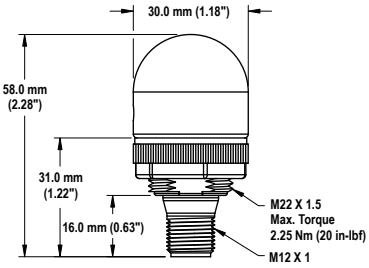


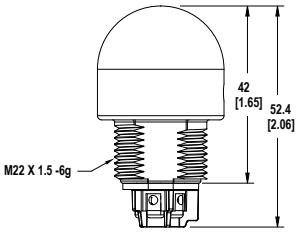
M18 Models



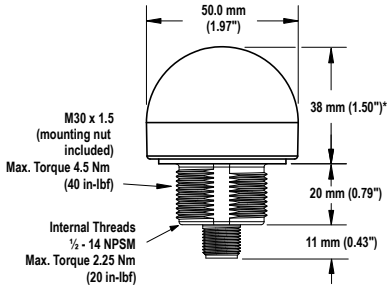
T30 Models	K30L Models	K30 Terminal Models

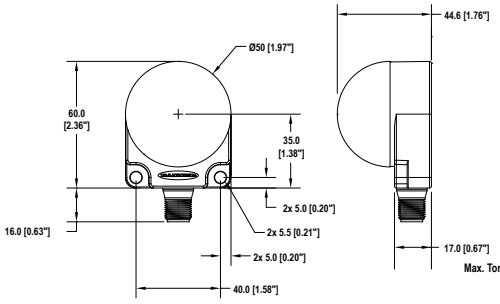


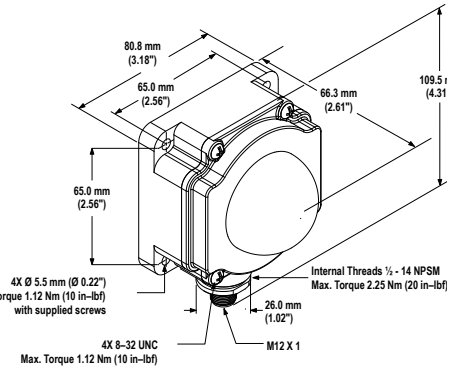




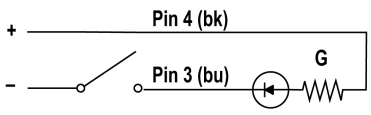
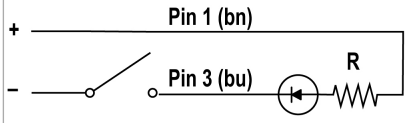
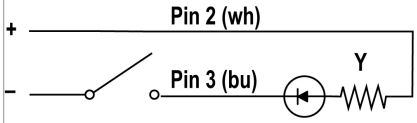
K50L Models	K50FL Models	K80L Models

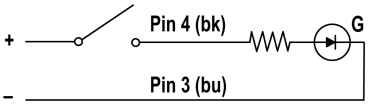
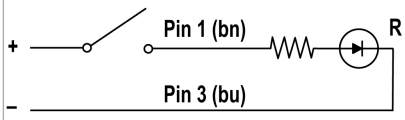
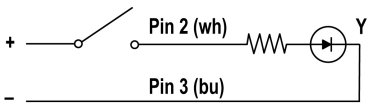






Wiring

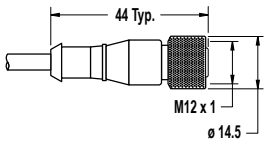
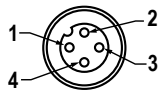
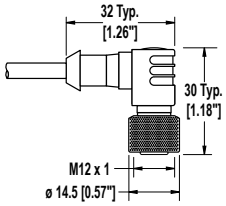
For NPN **Operation**		
Green LED	Red LED	Yellow LED
		
Pin 1 and Pin 2 not used	Pin 4 and Pin 2 not used	Pin 1 and Pin 4 not used

For PNP **Operation**		
Green LED	Red LED	Yellow LED
		
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				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC-406	1.83 m (6 ft)	Straight		 1 = Brown 2 = White 3 = Blue 4 = Black
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)			

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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