

EZ-LIGHT™ 2-Color Indicators for Use with Sensors



Datasheet

DC-operated LED indicators

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

Models		Inputs
	T8LGYX7PQP	PNP
	T8LGYX7NQP	NPN
	- Polycarbonate/ABS alloy housing, thermoplastic diffuser - IP67	
	M18GYX7PQ	PNP
	M18GYX7NQ	NPN
	- Nickel-plated brass housing, thermoplastic diffuser - Fully encapsulated IP67	
	T18GYX7PQ	PNP
	T18GYX7NQ	NPN
	- Thermoplastic polyester housing, thermoplastic diffuser - Fully encapsulated IP67	
	T30GYX7PQ	PNP
	T30GYX7NQ	NPN
	- Thermoplastic polyester housing, thermoplastic diffuser - Fully encapsulated IP67	

Models		Inputs
	K30LGYX7PQ	PNP
	K30LGYX7NQ	NPN
	22 mm threaded polycarbonate base, translucent polycarbonate dome - Fully encapsulated IP67, IP69K	
	K50LGYX7PQ	PNP
	K50LGYX7NQ	NPN
	30 mm threaded polycarbonate base, translucent polycarbonate dome - Fully encapsulated IP67, IP69K	
	K50FLGYX7PQ	PNP
	K50FLGYX7NQ	NPN
	- Polycarbonate base, translucent polycarbonate dome - Fully encapsulated IP67, IP69K	
	K80LGYX7PQ	PNP
	K80LGYX7NQ	NPN
	- ABS and polycarbonate base, translucent polycarbonate dome - Electronics fully encapsulated IP67	

A QD model requires a mating cable; see [Cordsets](#) on page 4.

T8L Models: Standard pigtail QD models are listed. To order the integral 4-wire cable model, omit suffix QP (for example, T8LGYX7P).

K80L Models: Standard 4-pin Euro integral QD connector models are listed. To order the terminal-wired model, omit suffix Q (for example, K80LGYX7P).

Other Models: Standard 4-pin Euro integral QD connector models are listed. To order the 2 m (6.5 ft) integral 4-wire cable model, omit suffix Q (example, M18GYX7P). To order the 150 mm (5.9 in) PVC pigtail with 4-pin Euro connector, replace suffix Q with QP (for example, M18GYX7PQP).

Contact the factory for other colors/color combinations, including: blue, white, and orange.



Specifications

Supply Voltage and Current

T8L models: 10 to 30 V dc at 20 mA maximum
 T18, M18, and K30L models: 10 to 30 V dc at 25 mA maximum per LED color
 T30 models: 10 to 30 V dc at 40 mA maximum per LED color
 K50L, K50FL, and K80L models: 18 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:

Connections

T8L models: 4-pin Euro-style 150 mm (6 in) pigtail QD (QP) or 4-wire, 2 m (6.5 ft) integral cable, depending on model
 K80L models: 4-pin 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 Euro-style integral QD (Q), 150 mm (6 in) pigtail 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.

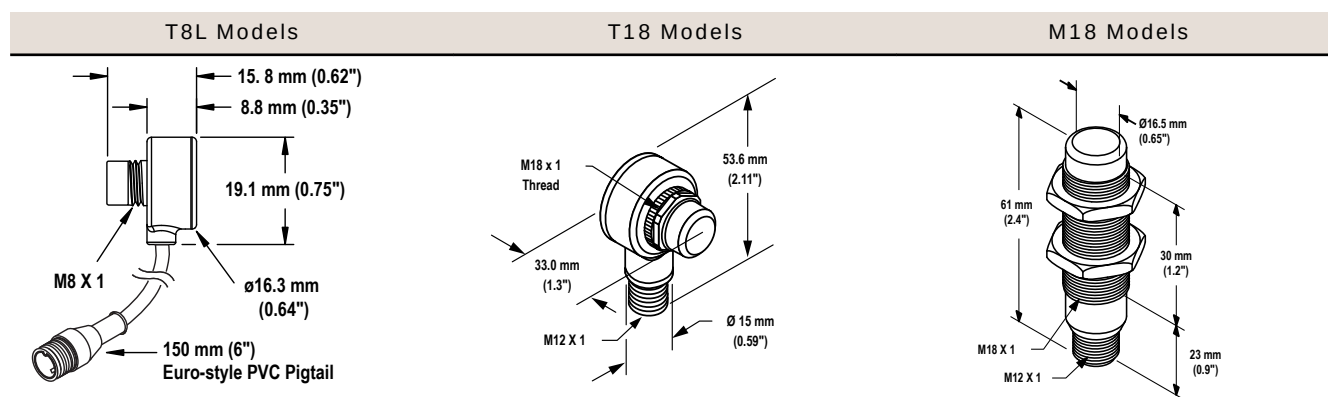
Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.

Supply wiring leads < 24 AWG shall not be spliced.

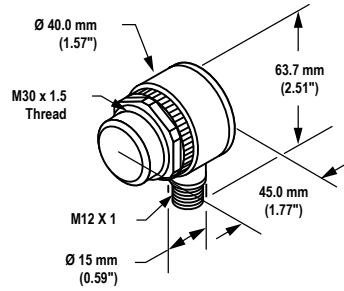
For additional product support, go to <http://www.bannerengineering.com>.

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

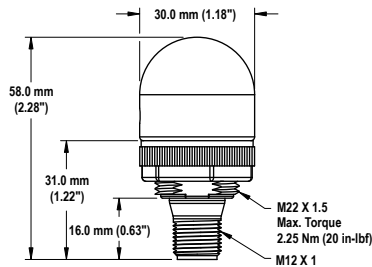
Dimensions



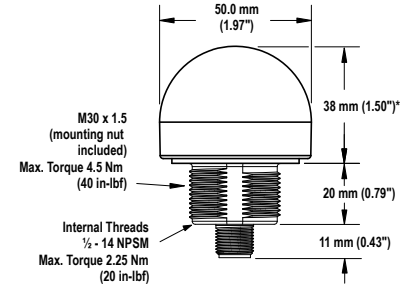
T30 Models



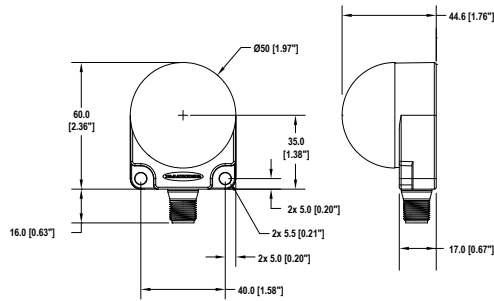
K30L Models



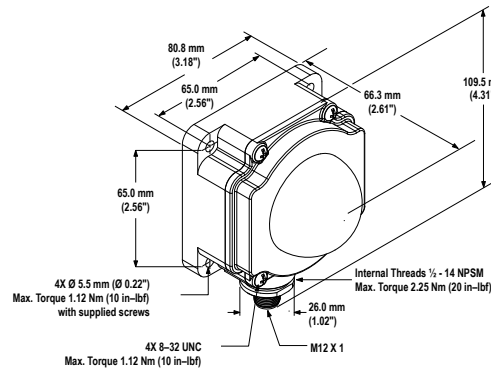
K50L Models



K50FL Models

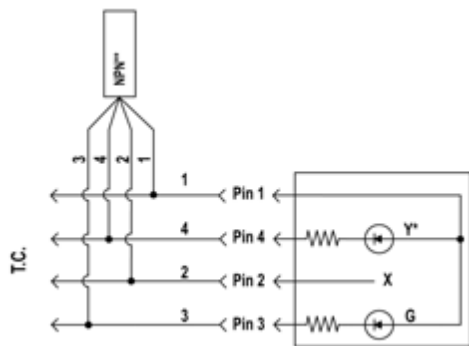


K80L Models

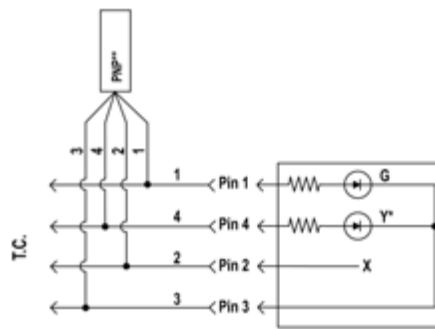


Wiring

NPN Models



PNP Models



Wiring Key and Legend

1. Brown
2. White
3. Blue
4. Black

Legend

T.C. = To Controller

Y = Yellow

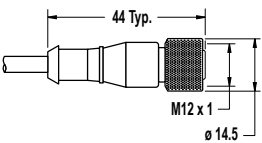
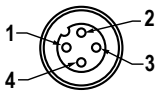
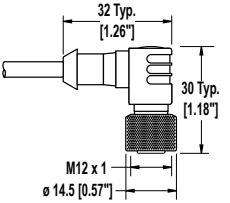
G = Green

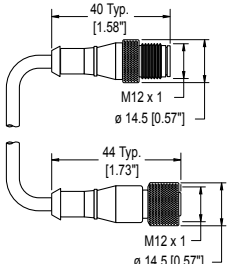
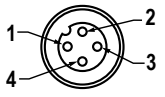
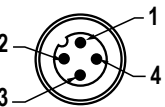
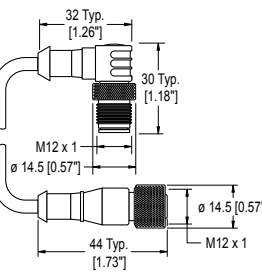
X = Not Used

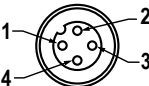
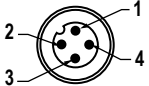
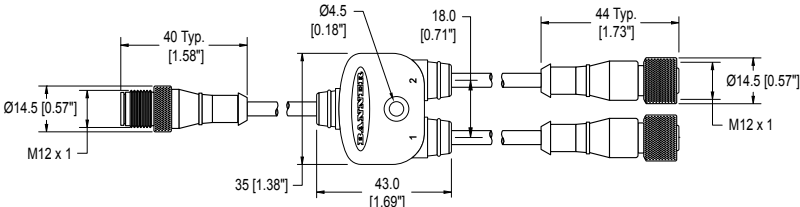
*Yellow ON = Green OFF

** This object represents the sensor

Cordsets

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)			

4-Pin Threaded M12/Euro-Style Cordsets—Double Ended				
Model	Length	Style	Dimensions	Pinout
MQDEC-401SS	0.31 m (1 ft)	Male Straight/ Female Straight		Female  Male  1 = Brown 2 = White 3 = Blue 4 = Black
MQDEC-403SS	0.91 m (3 ft)			
MQDEC-406SS	1.83 m (6 ft)			
MQDEC-412SS	3.66 m (12 ft)			
MQDEC-420SS	6.10 m (20 ft)			
MQDEC-430SS	9.14 m (30 ft)			
MQDEC-450SS	15.2 m (50 ft)			
MQDEC-403RS	0.91 m (1 ft)	Male Right-Angle/ Female Straight		
MQDEC-406RS	1.83 m (3 ft)			
MQDEC-412RS	3.66 m (12 ft)			
MQDEC-420RS	6.10 m (20 ft)			
MQDEC-430RS	9.14 m (30 ft)			
MQDEC-450RS	15.2 m (50 ft)			

4-Pin Threaded M12/Euro-Style Splitter Cordsets—Flat Junction			
Model	Branches (Female)	Trunk (Male)	Pinout
CSB-M1240M1240	No branch	No trunk	Female  Male  1 = Brown 2 = White 3 = Blue 4 = Black
CSB-M1240M1241	2 x 0.30 m (1 ft)	No trunk	
CSB-M1241M1241		0.30 m (1 ft)	
CSB-M1248M1241		2.50 m (8 ft)	
CSB-M12415M1241		4.57 m (15 ft)	
CSB-M12425M1241		7.60 m (25 ft)	
CSB-UNT425M1241		7.60 m (25 ft) Underterminated	
			

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