EZ-LIGHT Indicators for 3-Color, 7-Function

Datasheet

DC-operated LED indicators with solid ON or flashing capability and a Euro-style integral QD[1]. Choose from red, yellow, or green ON, flashing, or rotating (depending on wiring). [2]

Models		Construction	Inputs
	M18GRY2PQ	Nickel-plated brass housing, M18x1 thread; thermoplastic diffuser. Fully encapsulated; IP67.	PNP (Sourcing)
	M18GRY2NQ		NPN (Sinking)
	T30GRY2PQ	Thermoplastic polyester housing, thermoplastic diffuser. Fully encapsulated; IP67.	PNP (Sourcing)
	T30GRY2NQ		NPN (Sinking)
	K50LGRY2PQ	30 mm threaded polycarbonate base, translucent polycarbonate dome. Fully encapsulated; IP67.	PNP (Sourcing)
	K50LGRY2NQ		NPN (Sinking)
	K50FLGRY2PQ	Polycarbonate base, translucent polycarbonate dome. Fully encapsulated; IP67.	PNP (Sourcing)
	K50FLGRY2NQ		NPN (Sinking)
	K80LGRY2PQ [3]	ABS and polycarbonate base, translucent polycarbonate dome. Electronics fully encapsulated; IP67.	PNP (Sourcing)
	K80LGRY2NQ		NPN (Sinking)

Other Models: Standard integral QD models only are listed (mating cordset required). To order 2 m (6.5 ft) cable models, omit suffix Q from model number (example, M18GRY2P). To order models with 150 mm (6 inch) PVC pigtail with 5-pin Euro QD connector, replace suffix Q with QP (example, M18GRY2PQP).

Specifications

Supply Voltage and Current
- M18 Models: 10 to 30 V dc at 40 mA max.
- T30 Models: 10 to 30 V dc at 50 mA max.
- K50L, K50FL and K80L Models: 18 to 30 V dc at 50 mA max.

Indicators
- Entire translucent diffuser or dome provides indication.
- LEDs are independently selected: Green, Red, Yellow, ON steady or flashing.
- For other colors/combinations, contact Factory for availability

Input Response Time
- Indicator ON: 250 ms (max.)
- Indicator OFF: 10 ms (max.)

Indicator Flash Rate
- Single Color: 1 second flash rate (500 ms ON)
- Three Color: 1.5 second rotation rate (500 ms per color)

Connections
- K80L Models: 5-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: 5-pin Euro-style integral QD (Q); 6" pigtail QD (QP), (do not use center pin 5); or 5-wire, 2 m (6.5') integral cable

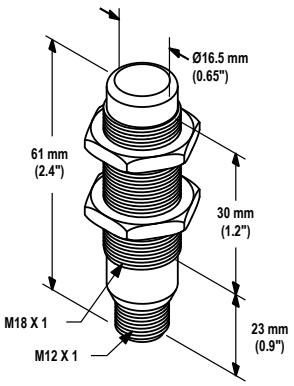
Operating Conditions
- Temperature: –40 °C to 50 °C (–40 °F to 122 °F)

Environmental Rating
- IEC IP67
- K80L has encapsulated electronics only; other models fully encapsulated

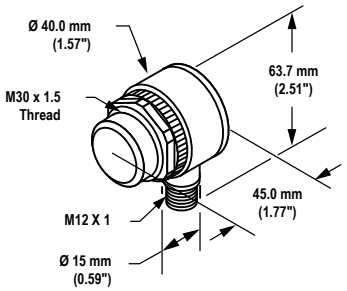
1 Pin 5 is not used; connects to 4-wire QD cordset. If a cordset other than those specified in this document is used, use a 5-pin mating cordset.
2 Contact Factory for other colors/color combinations, including: blue, white, orange.
3 K80L Models: Standard 5-pin Euro integral QD connector models only are listed (mating cordset required). For terminal-wired model, omit suffix Q (example, K80LGRY2P).

Dimensions

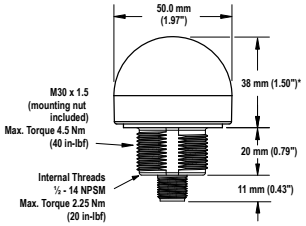
M18 Models



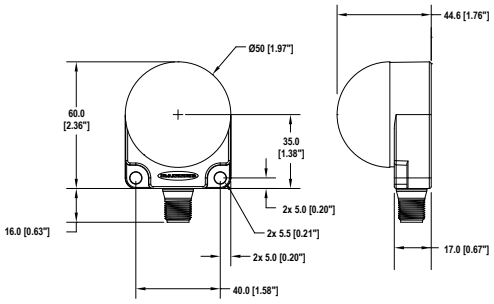
T30 Models



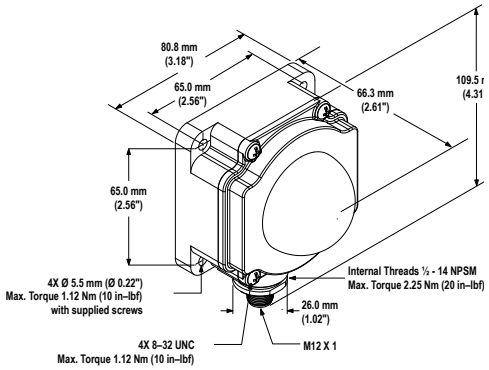
K50L Models



K50FL Models



K80L Models

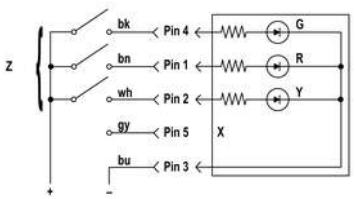
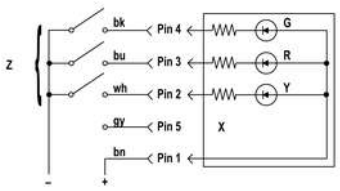
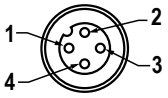


Wiring

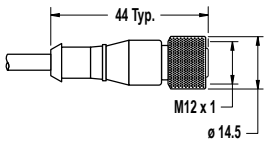
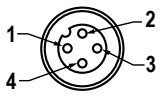
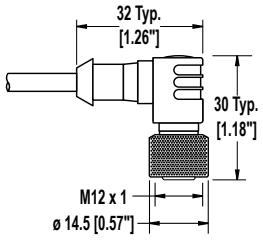
Table 1: Select from 7 operating schemes, depending on wiring

LED Function	PNP Models				NPN Models			
	Brown Wire	White Wire	Black Wire	Blue Wire	Blue Wire	White Wire	Black Wire	Brown Wire
Red ON	+V dc			0 V dc	0 V dc			+V dc
Red Flashing	+V dc		+V dc	0 V dc	0 V dc		0 V dc	+V dc
Yellow ON		+V dc		0 V dc		0 V dc		+V dc
Yellow Flashing	+V dc	+V dc		0 V dc	0 V dc	0 V dc		+V dc
Green ON			+V dc	0 V dc			0 V dc	+V dc
Green Flashing		+V dc	+V dc	0 V dc		0 V dc	0 V dc	+V dc
Rotating Red-Green-Yellow	+V dc	+V dc	+V dc	0 V dc	0 V dc	0 V dc	0 V dc	+V dc

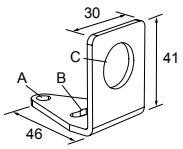
Table 2: Only QD wiring is shown; cabled wiring is functionally identical.

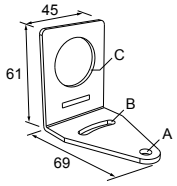
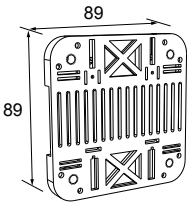
PNP Models	NPN Models	Pinout
		
G = Green R = Red Y = Yellow X = Not Used		1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray Z = Input Connections (see table above

Accessories

4-Pin Threaded M12/Euro-Style Cordsets				
Model	Length	Style	Dimensions	Pinout
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)			

To order bulk cable for terminal-wired K80L models, contact the factory. If cables other than those listed are used, use a 5-pin mating cable.

Brackets	
SMB18A • Right-angle mounting bracket with a curved slot for versatile orientation • 12-ga. stainless steel • 18 mm sensor mounting hole • Clearance for M4 (#8) hardware Hole center spacing: A to B = 24.2 Hole size: A = ø 4.6, B = 17.0 × 4.6, C = ø 18.5 	For use with M18 and T18 models or base-mount T30 models. Other available 18 mm dia. brackets: SMB1815SF SMB18Q SMB18SF SMB312PD SMBAMS18RA SMBAMS18P

Brackets		
SMB30A • Right-angle bracket with curved slot for versatile orientation • Clearance for M6 (¼ in) hardware • Mounting hole for 30 mm sensor • 12-ga. stainless steel Hole center spacing: A to B=40 Hole size: A=ø 6.3, B= 27.1 x 6.3, C=ø 30.5		For use with T30 models or base-mount K50L models. Other available 30 mm diameter brackets are: SMBAMS30RA SMBAMS30P SMB30SC SMB30SC SMB30MM SMB3018SC
SMBDX80DIN Black reinforced thermoplastic Bracket for mounting on a 35 mm DIN rail		K50FL models include a 48 mm (1.9 inch) circular velcro mounting kit for easy mounting with no additional hardware

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