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



more sensors, more solutions

Datasheet

DC-operated LED indicators with solid ON or flashing capability and a Euro-style integral QD¹. Choose from red, yellow, or green ON, flashing, or rotating (depending on wiring). 2

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

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. Terminalwired 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

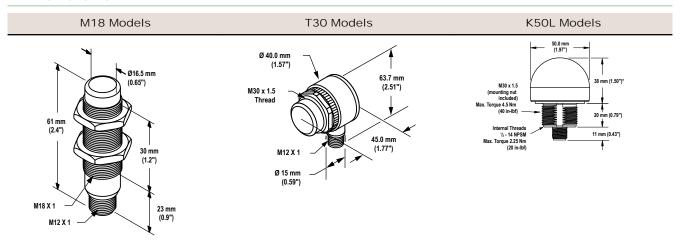
K80L Models: Standard 5-pin Euro integral QD connector models only are listed (mating cordset required). For terminal-wired model, omit suffix Q (example, K80LGRY2P)

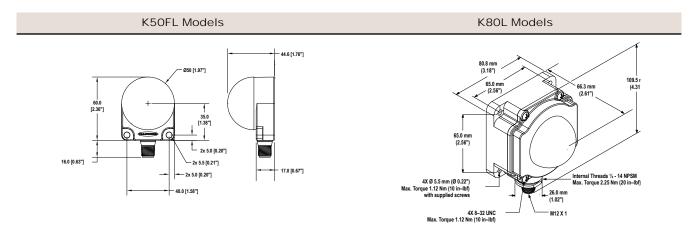


Original Document 121902 Rev. J

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. Contact Factory for other colors/color combinations, including: blue, white, orange

Dimensions



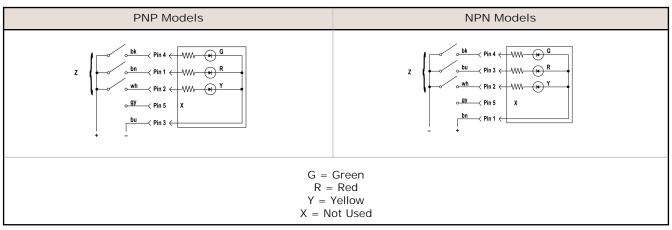


Wiring

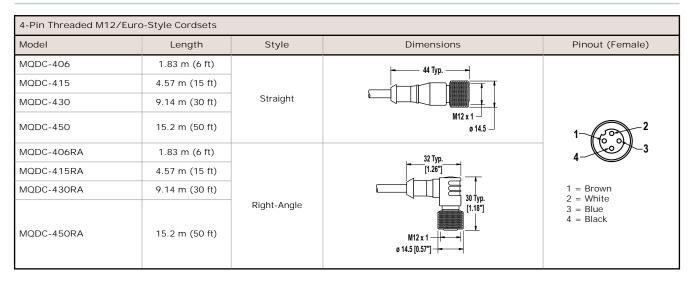
Table 1: Select from 7 operating schemes, depending on wiring

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

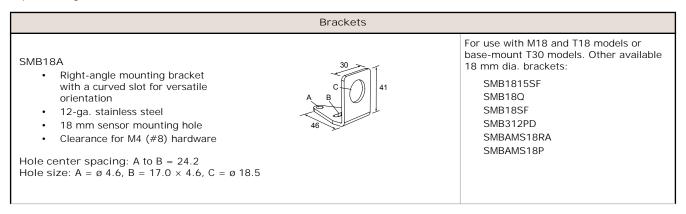
Table 2: Only QD wiring is shown; cabled wiring is functionally identical.



Accessories



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 For use with T30 models or base-mount K50L models. Other available 30 mm SMB30A diameter brackets are: Right-angle bracket with curved slot SMBAMS30RA for versatile orientation SMRAMS30P Clearance for M6 (1/4 in) hardware SMB30SC Mounting hole for 30 mm sensor SMB30SC 12-ga. stainless steel SMB30MM SMB3018SC Hole center spacing: A to B=40 Hole size: A=Ø 6.3, B= 27.1 x 6.3, C=Ø 30.5 K50FL models include a 48 mm (1.9 inch) circular velcro mounting kit for easy SMBDX80DIN mounting with no additional hardware Black reinforced thermoplastic Bracket for mounting on a 35 mm DIN

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.

THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER EXPRESS OR IMPLIED (INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), AND WHETHER ARISING UNDER COURSE OF PERFORMANCE, COURSE OF DEALING OR TRADE USAGE.

This Warranty is exclusive and limited to repair or, at the discretion of Banner Engineering Corp., replacement. IN NO EVENT SHALL BANNER ENGINEERING CORP. BE LIABLE TO BUYER OR ANY OTHER PERSON OR ENTITY FOR ANY EXTRA COSTS, EXPENSES, LOSSES, LOSS OF PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM ANY PRODUCT DEFECT OR FROM THE USE OR INABILITY TO USE THE PRODUCT, WHETHER ARISING IN CONTRACT OR WARRANTY, STATUTE, TORT, STRICT LIABILITY, NEGLIGENCE, OR OTHERWISE.

Banner Engineering Corp. reserves the right to change, modify or improve the design of the product without assuming any obligations or liabilities relating to any product previously manufactured by Banner Engineering Corp.