EZ-LIGHT® QPMA Series



Datasheet

DC-Operated LED Indicators with 150mm PUR cable QD

Models

Models		Construction	Connector ³	LED Function ⁴	Inputs
	M18GXRPQPMA		150 mm (6 in) PUR Pigtail with 4-pin Euro-style QD fitting	3-color ¹	PNP (Sourcing)
	M18GXRNQPMA	Nickel-plated brass housing, M18x1 thread; thermoplastic			NPN (Sinking)
	M18RGX7PQPMA	diffuser. Fully encapsulated. IP67		2-color ²	PNP (Sourcing)
	T18GXRPQPMA			3-color ¹	PNP (Sourcing)
	T18GXRNQPMA	Thermoplastic polyester housing, thermoplastic			NPN (Sinking)
	T18RGX7PQPMA	diffuser. Fully encapsulated. IP67		2-color ²	PNP (Sourcing)
	T30GXRPQPMA			3-color ¹	PNP (Sourcing)
	T30GXRNQPMA	Thermoplastic polyester housing, thermoplastic			NPN (Sinking)
	T30RGX7PQPMA	diffuser. Fully encapsulated. IP67		2-color ²	PNP (Sourcing)
	K30LGXRPQPMA	22 mm threaded		3-color ¹	PNP (Sourcing)
	K30LGXRNQPMA				NPN (Sinking)
	K30LRGX7PQPMA	polycarbonate base, translucent polycarbonate dome. Fully encapsulated. IP67, IP69K		2-color ²	PNP (Sourcing)
	K50LRGX7PQPMA	30 mm threaded polycarbonate base, translucent polycarbonate dome. Fully encapsulated. IP67, IP69K		2-color ²	PNP (Sourcing)
Ç	K50FLRGX7PQPMA	Polycarbonate base, translucent polycarbonate dome. Fully encapsulated. IP67, IP69K		2-color ²	PNP (Sourcing)
	K80LRGX7PQPMA	ABS and polycarbonate base, translucent polycarbonate dome. Electronics fully encapsulated.		2-color ²	PNP (Sourcing)



Original Document 121903 Rev. H

Use with PNP or NPN I/O blocks to produce Green, Red, or Yellow indicator functions (see *Wiring Diagrams* on page 2).

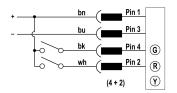
Use with discrete-output sensors to provide remote indication. Red is ON when the sensor is powered, Green is ON when the output is energized.

Mating cable required. For use with mating Euro-style QD cables or with Euro splitter, model **CSB-M1240M1240**, or equivalent.

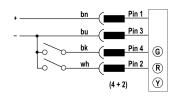
⁴ Contact Banner Engineering for other colors and color combinations, including: blue, white, orange.

Wiring Diagrams

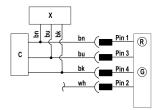
PNP (..GXRP..) 3-Color Models



NPN (..GXRN..) 3-Color Models



2-Color (..RGX7P..) Models



NOTE: When "G" is ON, "R" is OFF

Pinout



Key

 1 = Brown
 X = Banner Sensor

 2 = White
 C = Control Box

 3 = Blue
 G = Green

 4 = Black
 R = Red

 Y = Yellow

Specifications

Supply Voltage and Current

K30L, T18, and M18 Models:

2-color models: 10 V dc to 30 V dc at 30 mA max.
3-color models: 10 V dc to 30 V dc at 25 mA max. per color

T30 models:

2-color models: 10 V dc to 30 V dc at 50 mA max. **3-color models:** 10 V dc to 30 V dc at 40 mA max. per color

K50L, K50FL, and K80L Models:

2-color models: 18 V dc to 30 V dc at 50 mA max.

Indicato

Entire translucent diffuser or dome provides indication. See notes 1 and 2 under *Models* on page 1. For other colors/combinations, contact Banner Engineering for availability.

Construction

See Models on page 1

Connections

150 mm (6 in) PUR cable with 4-pin M12/Euro-style quick disconnect

Environmental Rating

Rated IEC IP67. K80L has encapsulated electronics only; other models fully encapsulated.

K30L, K50L, and K50FL quick-disconnect models meet IP69K per DIN 40050-9.

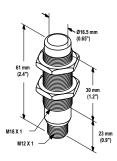
Cabled models also meet IP69K if the cable and cable entrance are protected from high-pressure spray.

Operating Conditions

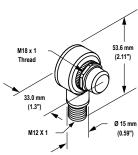
-40 °C to +50 °C (-40 °F to +122 °F)

Dimensions

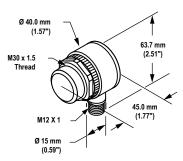
M18 Models



T18 Models

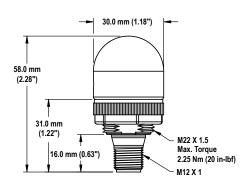


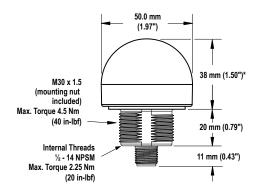
T30 Models



K30L Models

K50L Models

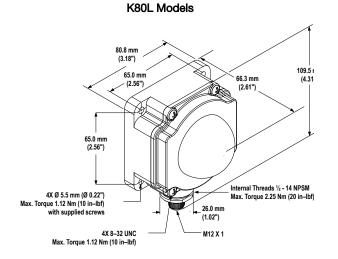




60.0 [2.36"] 44.6 [1.76"] 44.6 [1.76"] 2x 5.0 [0.20"] 2x 5.0 [0.20"] 2x 5.0 [0.20"]

— 40.0 [1.58"]

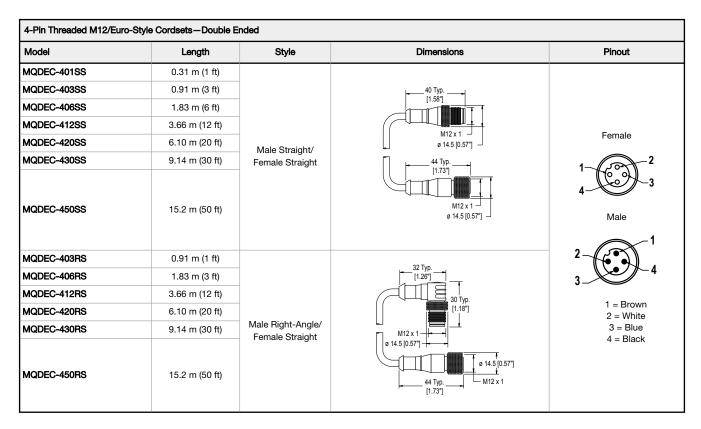
K50FL Models

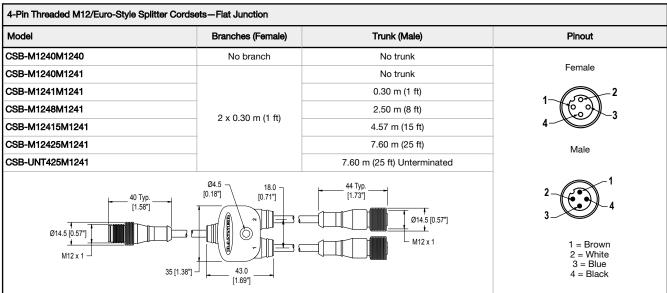


Accessories

Cordsets

4-Pin Threaded M12/Euro-Style Cordsets—Single Ended						
Model	Length	Style	Dimensions	Pinout (Female)		
MQDC-406	1.83 m (6 ft)			1 600 3		
MQDC-415	4.57 m (15 ft)		M12 x 1 - 0 14.5 -			
MQDC-430	9.14 m (30 ft)	Straight				
MQDC-450	15.2 m (50 ft)					
MQDC-406RA	1.83 m (6 ft)		32 Typ. [1.26"]			
MQDC-415RA	4.57 m (15 ft)					
MQDC-430RA	9.14 m (30 ft)			1 = Brown		
MQDC-450RA	15.2 m (50 ft)	Right-Angle	30 Typ. [1.18"] 6 14.5 [0.57"]	2 = White 3 = Blue 4 = Black		





Mounting Brackets

For more information about these and other available brackets, visit www.bannerengineering.com.

K50FL models include a 48 mm (1.9 in) circular hook-and-loop mounting kit for easy mounting with no additional hardware required.

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

SMB18A

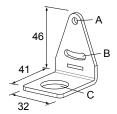
- Right-angle mounting bracket with a curved slot for versatile orientation
- 12-ga. stainless steel
- 18 mm sensor mounting hole
- Clearance for M4 (#8) hardware

Hole center spacing: A to B = 24.2 Hole size: A = \emptyset 4.6, B = 17.0 \times 4.6, C = \emptyset 18.5



SMB312PD

- 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



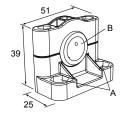
Hole center spacing: A to B = 24.2Hole size: A = \emptyset 4.6, B = 17×4.6 , C = \emptyset 18.5



Note: Not for use with plastic fiber optic sensors

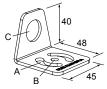
SMB1815SF

- Swivel with set screws for mounting sensors by the cable hub
- Black reinforced thermoplastic polyester
- Stainless steel swivel locking hardware and hex wrench included



SMBAMS18RA

- Right-angle SMBAMS series bracket with 18 mm hole
- Articulation slots for 90+° rotation
- 12-ga. (2.6 mm) cold-rolled steel

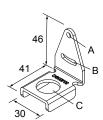


Hole center spacing: A = 26.0, A to B = 13.0**Hole size:** $A = 26.8 \times 7.0$, $B = \emptyset 6.5$, $C = \emptyset 19.0$

Hole center spacing: A = 36.0Hole size: $A = \emptyset 5.0$, $B = \emptyset 15.0$

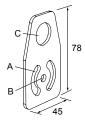
SMB18Q

- Right-angle flanged bracket
- 18 mm sensor mounting hole
- 12-ga. stainless steel



SMBAMS18P

- Flat SMBAMS series bracket with 18 mm hole
- Articulation slots for 90+° rotation
- 12-ga. (2.6 mm) cold-rolled steel



Hole center spacing: A = 26.0, A to B = 13.0 **Hole size:** A = 26.8×7.0 , B = \emptyset 6.5, C = \emptyset 19.0

Hole center spacing: A to B = 24.2 Hole size: A = \emptyset 4.6, B = 17.0 \times 4.6, C = \emptyset 19.0

SMB18SF

- 18 mm swivel bracket with M18 x 1 internal thread
- Black thermoplastic polyester
- Stainless steel swivel locking hardware included

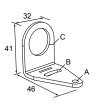


Hole center spacing: A = 36.0Hole size: $A = \emptyset 5.3$, $B = \emptyset 18.0$

For use with base-mount K30L models

SMB22A

- Right-angle bracket with curved slot for versatile orientation
- 12-ga. stainless steel
- Mounting hole for 22 mm sensor



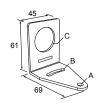
Hole center spacing: A to B = 26.0Hole size: A = \emptyset 4.6, B = 4.6×16.9 , C = 22.2

For use with T30 models or base-mount K50L models

SMB30A

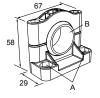
- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (1/4 in) hardware
- Mounting hole for 30 mm sensor
- 12-ga. stainless steel

Hole center spacing: A to B=40



SMB30SC

- Swivel bracket with 30 mm mounting hole for sensor
- Black reinforced thermoplastic polyester
- Stainless steel mounting and swivel locking hardware included



Hole center spacing: A=Ø 50.8 Hole size: A=Ø 7.0, B=Ø 30.0

SMBAMS30RA

 Right-angle SMBAMS series bracket

Hole size: A=Ø 6.3, B= 27.1 x 6.3, C=Ø 30.5

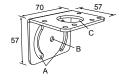
- 30 mm hole for mounting sensors
- Articulation slots for 90°+ rotation
- 12-ga. (2.6 mm) cold-rolled steel

Hole center spacing: A=26.0, A to B=13.0 **Hole size:** A=26.8 x 7.0, B=Ø 6.5, C=Ø 31.0



SMB30MM

- 12-ga. stainless steel bracket with curved mounting slots for versatile orientation
- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor



Hole center spacing: A = 51, A to B = 25.4**Hole size:** $A = 42.6 \times 7$, $B = \emptyset 6.4$, $C = \emptyset 30.1$

SMBAMS30P

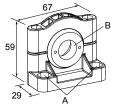
- Flat SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90°+ rotation
- 12-ga. 300 series stainless steel

Hole center spacing: A=26.0, A to B=13.0 Hole size: A=26.8 \times 7.0, B= \emptyset 6.5, C= \emptyset 31.0



SMB3018SC

- 18 mm swivel side or barrelmount bracket
- Black reinforced thermoplastic polyester
- Stainless steel swivel locking hardware included

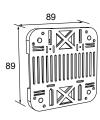


Hole center spacing: A = 50.8Hole size: $A = \emptyset 7.0$, $B = \emptyset 18.0$

DIN-mount bracket for K80L models

SMBDX80DIN

- Black reinforced thermoplastic
- Bracket for mounting on a 35 mm DIN rail



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