

EZ-LIGHT® QPMA Series



Datasheet

DC-Operated LED Indicators with 150mm PUR cable QD

Models

Models		Construction	Connector ³	LED Function ⁴	Inputs
	M18GXRQPMA	Nickel-plated brass housing, M18x1 thread; thermoplastic diffuser. Fully encapsulated. IP67	150 mm (6 in) PUR Pigtail with 4-pin Euro-style QD fitting	3-color ¹	PNP (Sourcing)
	M18GXRNQPMA				NPN (Sinking)
	M18RGX7PQPMA			2-color ²	PNP (Sourcing)
	T18GXRQPMA	Thermoplastic polyester housing, thermoplastic diffuser. Fully encapsulated. IP67		3-color ¹	PNP (Sourcing)
	T18GXRNQPMA				NPN (Sinking)
	T18RGX7PQPMA			2-color ²	PNP (Sourcing)
	T30GXRQPMA	Thermoplastic polyester housing, thermoplastic diffuser. Fully encapsulated. IP67		3-color ¹	PNP (Sourcing)
	T30GXRNQPMA				NPN (Sinking)
	T30RGX7PQPMA			2-color ²	PNP (Sourcing)
	K30LGXRQPMA	22 mm threaded polycarbonate base, translucent polycarbonate dome. Fully encapsulated. IP67		3-color ¹	PNP (Sourcing)
	K30LGXRNPMA				NPN (Sinking)
	K30LRGX7PQPMA			2-color ²	PNP (Sourcing)
	K50LRGX7PQPMA	30 mm threaded polycarbonate base, translucent polycarbonate dome. Fully encapsulated. IP67		2-color ²	PNP (Sourcing)
	K50FLRGX7PQPMA	Polycarbonate base, translucent polycarbonate dome. Fully encapsulated. IP67		2-color ²	PNP (Sourcing)
	K80LRGX7PQPMA	ABS and polycarbonate base, translucent polycarbonate dome. Electronics fully encapsulated. IP67		2-color ²	PNP (Sourcing)

¹ Use with PNP or NPN I/O blocks to produce Green, Red, or Yellow indicator functions (see [Wiring Diagrams](#) on page 2).

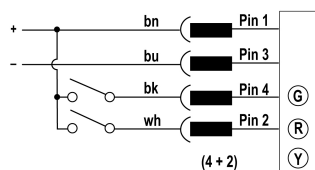
² Use with discrete-output sensors to provide remote indication. Red is ON when the sensor is powered, Green is ON when the output is energized.

³ Mating cable required. For use with mating Euro-style QD cables or with Euro splitter, model CSB-M1240M1240, or equivalent.

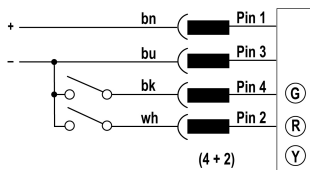


Wiring Diagrams

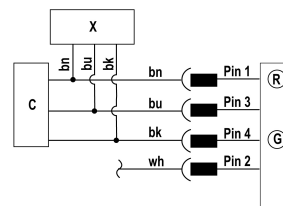
PNP (..GXRP..) 3-Color Models



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

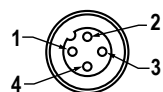


2-Color (..RGX7P..) Models



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

Pinout



Key

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

X = Banner Sensor
C = Control Box
G = Green
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.

Indicators

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

IEC IP67

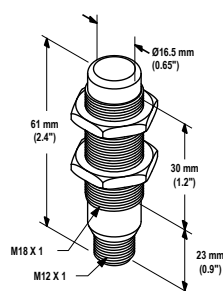
K80L has encapsulated electronics only; other models are fully encapsulated.

Operating Conditions

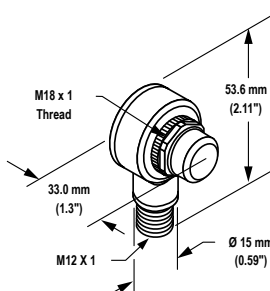
-40 °C to +50 °C (-40 °F to +122 °F)

Dimensions

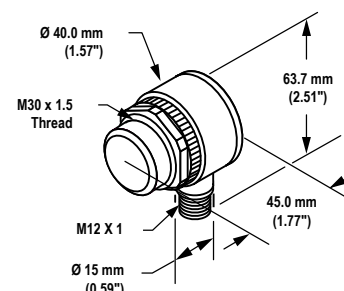
M18 Models



T18 Models



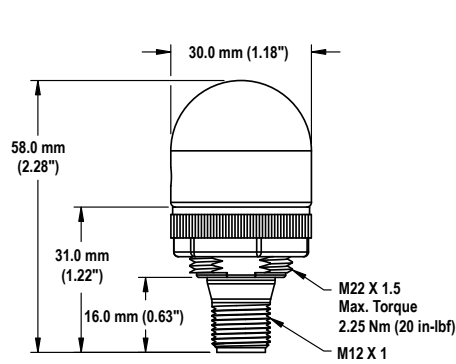
T30 Models



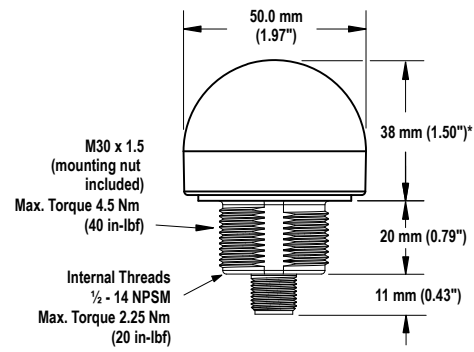
K30L Models

K50L Models

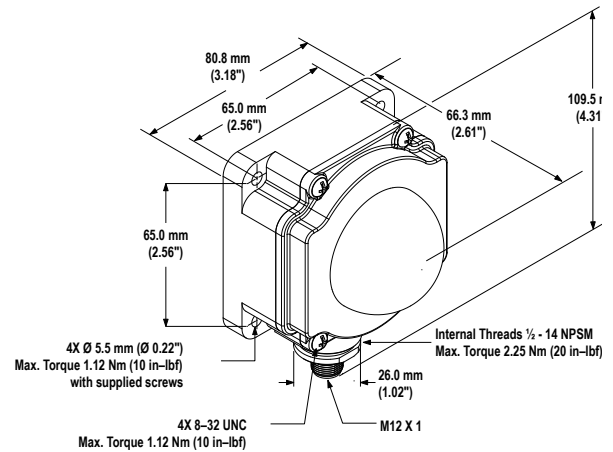
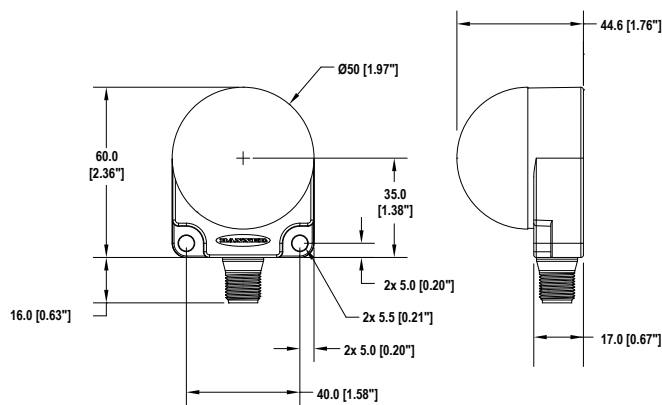
⁴ Contact Banner Engineering for other colors and color combinations, including: blue, white, orange.



K50FL Models

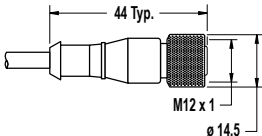
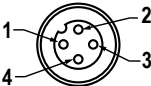
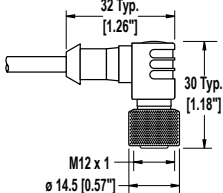


K80L Models

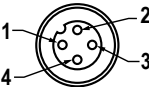
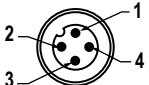
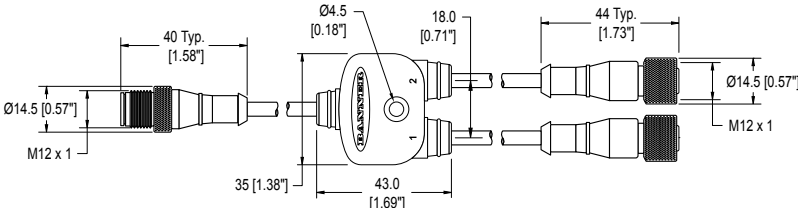


Accessories

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		Female Male 1 = Brown 2 = White 3 = Blue 4 = Black
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) Unterminated	
			

Mounting Brackets

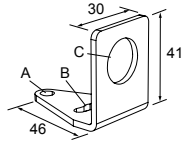
For more information about these and other available brackets, visit www.bannerengineering.com.

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

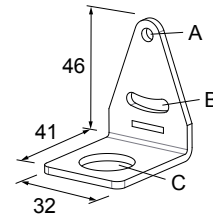


Hole center spacing: A to B = 24.2

Hole size: A = $\varnothing$ 4.6, B = 17.0×4.6 , C = $\varnothing$ 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 = 24.2

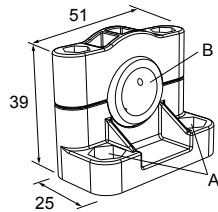
Hole size: A = $\varnothing$ 4.6, B = 17×4.6 , C = $\varnothing$ 18.5



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

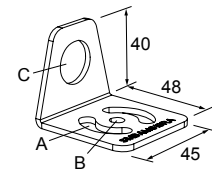


Hole center spacing: A = 36.0

Hole size: A = $\varnothing$ 5.0, B = $\varnothing$ 15.0

SMBAMS18RA

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

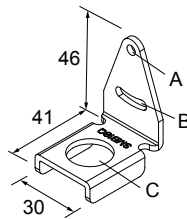


Hole center spacing: A = 26.0, A to B = 13.0

Hole size: A = 26.8×7.0 , B = $\varnothing$ 6.5, C = $\varnothing$ 19.0

SMB18Q

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

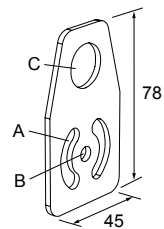


Hole center spacing: A to B = 24.2

Hole size: A = $\varnothing$ 4.6, B = 17.0×4.6 , C = $\varnothing$ 19.0

SMBAMS18P

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

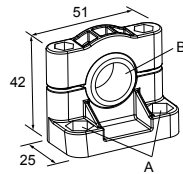


Hole center spacing: A = 26.0, A to B = 13.0

Hole size: A = 26.8×7.0 , B = $\varnothing$ 6.5, C = $\varnothing$ 19.0

SMB18SF

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



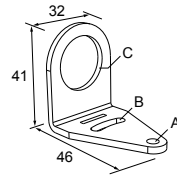
Hole center spacing: A = 36.0

Hole size: A = $\varnothing$ 5.3, B = $\varnothing$ 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



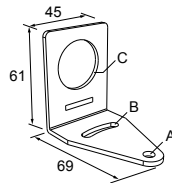
Hole center spacing: A to B = 26.0

Hole size: A = $\varnothing$ 4.6, B = 4.6 x 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 ($\frac{1}{4}$ in) hardware
- Mounting hole for 30 mm sensor
- 12-ga. stainless steel

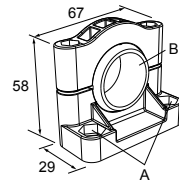


Hole center spacing: A to B=40

Hole size: A= $\varnothing$ 6.3, B= 27.1 x 6.3, C= $\varnothing$ 30.5

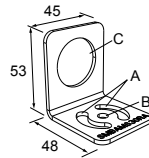
SMB30SC

- 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= $\varnothing$ 50.8Hole size: A= $\varnothing$ 7.0, B= $\varnothing$ 30.0

SMBAMS30RA

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

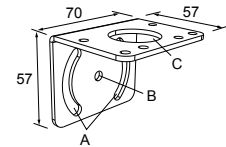


Hole center spacing: A=26.0, A to B=13.0

Hole size: A=26.8 x 7.0, B= $\varnothing$ 6.5, C= $\varnothing$ 31.0

SMB30MM

- 12-ga. stainless steel bracket with curved mounting slots for versatile orientation
- Clearance for M6 ($\frac{1}{4}$ in) hardware
- Mounting hole for 30 mm sensor

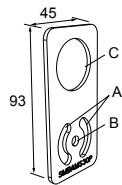


Hole center spacing: A = 51, A to B = 25.4

Hole size: A = 42.6 x 7, B = $\varnothing$ 6.4, C = $\varnothing$ 30.1

SMBAMS30P

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

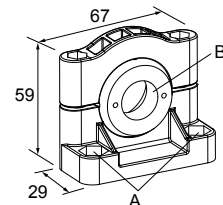


Hole center spacing: A=26.0, A to B=13.0

Hole size: A=26.8 x 7.0, B= $\varnothing$ 6.5, C= $\varnothing$ 31.0

SMB3018SC

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



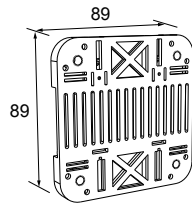
Hole center spacing: A = 50.8

Hole size: A = $\varnothing$ 7.0, B = $\varnothing$ 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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