








EZ-LIGHT® QPMA Series



DC-operated LED indicators with PUR pigtail 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			PNP (Sourcing)			
	T18GXRQPMA	Thermoplastic polyester housing, thermoplastic diffuser. Fully encapsulated. IP67		150 mm (6 in) PUR Pigtail with 4-pin Euro-style QD fitting	3-color ¹	PNP (Sourcing)	
	T18GXRNQPMA					NPN (Sinking)	
	T18RGX7PQPMA				PNP (Sourcing)		
	T30GXRQPMA	Thermoplastic polyester housing, thermoplastic diffuser. Fully encapsulated. IP67			150 mm (6 in) PUR Pigtail with 4-pin Euro-style QD fitting	3-color ¹	PNP (Sourcing)
	T30GXRNQPMA						NPN (Sinking)
	T30RGX7PQPMA					PNP (Sourcing)	
	K30LGXRQPMA	22 mm threaded polycarbonate base, translucent polycarbonate dome. Fully encapsulated. IP67	150 mm (6 in) PUR Pigtail with 4-pin Euro-style QD fitting			3-color ¹	PNP (Sourcing)
	K30LGXRNQPMA						NPN (Sinking)
	K30LRGX7PQPMA					PNP (Sourcing)	
	K50LRGX7PQPMA	30 mm threaded polycarbonate base, translucent polycarbonate dome. Fully encapsulated. IP67		150 mm (6 in) PUR Pigtail with 4-pin Euro-style QD fitting		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 [Hookups](#) 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.

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

Specifications

Supply Voltage and Current

K30L, T18, and M18 Models:

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

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

T30 models:

2-color models: 10 to 30V dc at 50 mA max.

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

K50L, K50FL, and K80L Models:

2-color models: 18 to 30V 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 pigtail with 4-pin Euro-style QD fitting

Environmental Rating

IEC IP67

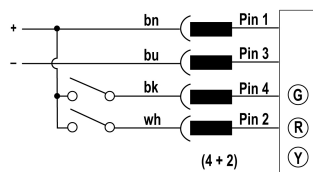
K80L has encapsulated electronics only; other models are fully encapsulated.

Operating Conditions

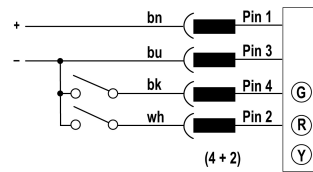
-40 °C to +50 °C (-40 °F to +122 °F)

Hookups

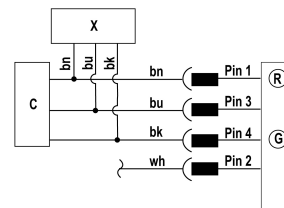
PNP (..GXR..) 3-Color Models



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

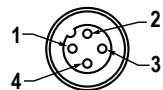


2-Color (..RGX7P..) Models



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

Pinout



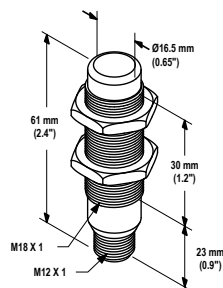
Key

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

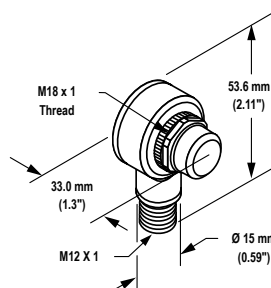
X = Banner Sensor
C = Control Box
G = Green
R = Red
Y = Yellow

Dimensions

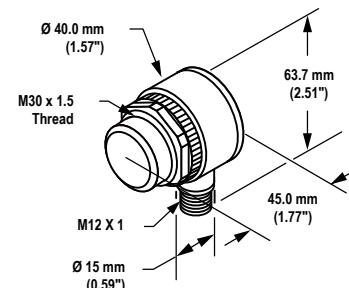
M18 Models



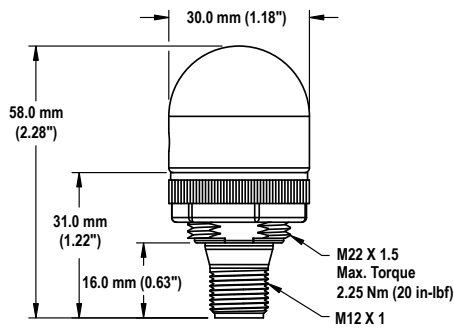
T18 Models



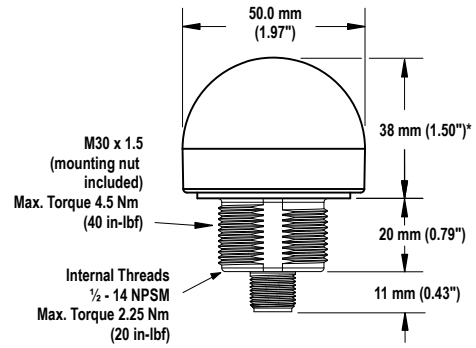
T30 Models



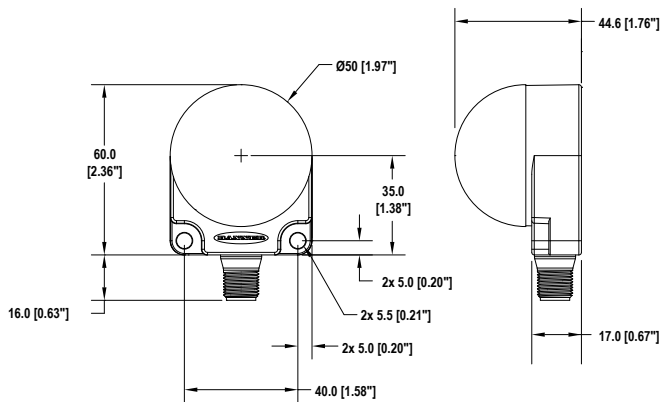
K30L Models



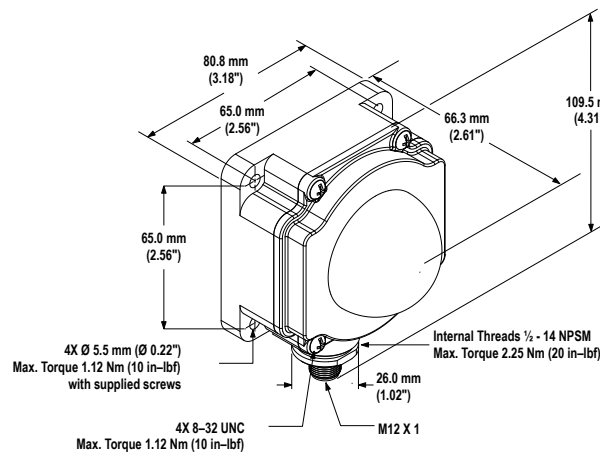
K50L Models



K50FL Models



K80L Models



Accessories

Cordsets

4-Pin Threaded M12/Euro-Style Cordsets				
Model	Length	Style	Dimensions	Pinout
MQDC-406	1.83 m (6 ft)	Straight		<p>1 = Brown 2 = White 3 = Blue 4 = Black</p>
MQDC-415	4.57 m (15 ft)			
MQDC-430	9.14 m (30 ft)			
MQDC-450	15.2 m (50 ft)	Right-Angle		
MQDC-406RA	1.83 m (6 ft)			
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		
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)			

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

4-Pin Threaded M12/Euro-Style Splitter Cordsets – Flat Junction				
Model	Branches (Female)	Trunk (Male)	Dimensions	Pinout
CSB-M1240M1240	No branch	No trunk		
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		

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

Mounting Brackets

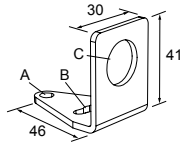
For more information about these and other available brackets, visit www.bannerengineering.com.

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

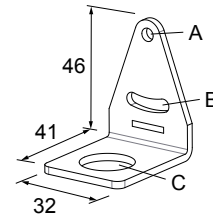
- Right-angle mounting bracket with a curved slot for versatile orientation
- 12-ga. stainless steel
- 18 mm sensor mounting hole
- Clearance for M4 (#8) hardware



Hole center spacing: A to B = 24.2
Hole size: A = \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



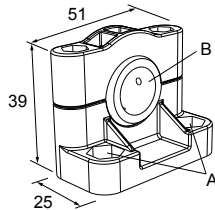
Hole center spacing: A to B = 24.2
Hole size: A = \varnothing 4.6, B = 17 × 4.6, C = \varnothing 18.5



NOTE: Not for use with plastic fiber optic sensors

SMB1815SF

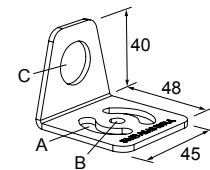
- Swivel with set screws for mounting sensors by the cable hub
- Black reinforced thermo-plastic polyester
- Stainless steel swivel locking hardware and hex wrench included



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

SMBAMS18RA

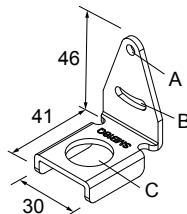
- Right-angle SMBAMS series bracket with 18 mm hole for mounting sensors
- Articulation slots for 90+° rotation
- 12-ga. (2.6 mm) cold-rolled steel



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

SMB18Q

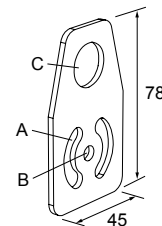
- Right-angle flanged bracket
- 18 mm sensor mounting hole
- 12-ga. stainless steel



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

SMBAMS18P

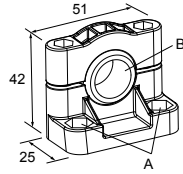
- Flat SMBAMS series bracket with 18 mm hole for mounting sensors
- Articulation slots for 90+° rotation
- 12-ga. (2.6 mm) cold-rolled steel



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

SMB18SF

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

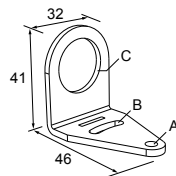


Hole center spacing: A = 36.0

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

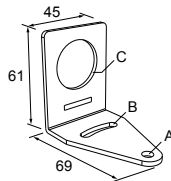


Hole center spacing: A to B = 26.0

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

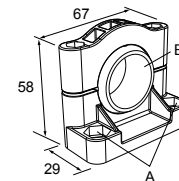


Hole center spacing: A to B=40

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

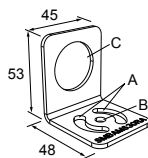


Hole center spacing: A= \varnothing 50.8

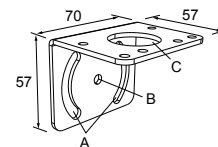
Hole size: A= \varnothing 7.0, B= \varnothing 30.0

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

**SMB30MM**

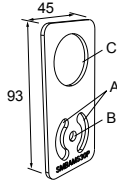
- 12-ga. stainless steel bracket with curved mounting slots for versatile orientation
- Clearance for M6 ($\frac{1}{4}$ in) hardware
- Mounting hole for 30 mm sensor



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

SMBAMS30P

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

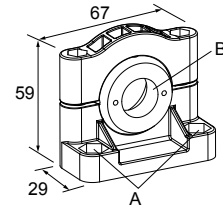


Hole center spacing: A=26.0, A to B=13.0
Hole size: A=26.8 x 7.0, B=ø 6.5, C=ø 31.0

Hole center spacing: A = 51, A to B = 25.4
Hole size: A = 42.6 x 7, B = ø 6.4, C = ø 30.1

SMB3018SC

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

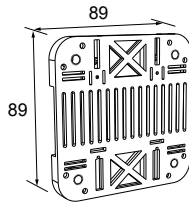


Hole center spacing: A = 50.8
Hole size: A = ø 7.0, B = ø 18.0

DIN-mount bracket for K80L models

SMBDX80DIN

- Black reinforced thermo-plastic
- Bracket for mounting on 35 mm DIN rail



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.