








# EZ-LIGHT® QPMA Series



## Datasheet

DC-Operated LED Indicators with 150mm PUR cable QD

### Models

Models		Construction	Connector <sup>3</sup>	LED Function <sup>4</sup>	Inputs		
	M18GXRQPMA	Nickel-plated brass housing, M18x1 thread; thermoplastic diffuser. Fully encapsulated.	150 mm (6 in) PUR Pigtail with 4-pin Euro-style QD fitting	3-color <sup>1</sup>	PNP (Sourcing)		
	M18GXRNPMA				NPN (Sinking)		
	M18RGX7QPMA	IP67		2-color <sup>2</sup>	PNP (Sourcing)		
	T18GXRQPMA	Thermoplastic polyester housing, thermoplastic diffuser. Fully encapsulated.		150 mm (6 in) PUR Pigtail with 4-pin Euro-style QD fitting	3-color <sup>1</sup>	PNP (Sourcing)	
	T18GXRNPMA					NPN (Sinking)	
	T18RGX7QPMA	IP67			2-color <sup>2</sup>	PNP (Sourcing)	
	T30GXRQPMA	Thermoplastic polyester housing, thermoplastic diffuser. Fully encapsulated.			150 mm (6 in) PUR Pigtail with 4-pin Euro-style QD fitting	3-color <sup>1</sup>	PNP (Sourcing)
	T30GXRNPMA						NPN (Sinking)
	T30RGX7QPMA	IP67				2-color <sup>2</sup>	PNP (Sourcing)
	K30LGRPQMA	22 mm threaded polycarbonate base, translucent polycarbonate dome. Fully encapsulated.	150 mm (6 in) PUR Pigtail with 4-pin Euro-style QD fitting			3-color <sup>1</sup>	PNP (Sourcing)
	K30LGRNPMA						NPN (Sinking)
	K30LRGX7QPMA	IP67				2-color <sup>2</sup>	PNP (Sourcing)
	K50LRGX7QPMA	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 <sup>2</sup>	PNP (Sourcing)
	K50FLRGX7QPMA	Polycarbonate base, translucent polycarbonate dome. Fully encapsulated. IP67				2-color <sup>2</sup>	PNP (Sourcing)
	K80LRGX7QPMA	ABS and polycarbonate base, translucent polycarbonate dome. Electronics fully encapsulated. IP67				2-color <sup>2</sup>	PNP (Sourcing)

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

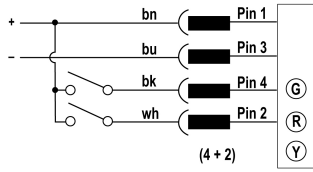
<sup>2</sup> Use with discrete-output sensors to provide remote indication. Red is ON when the sensor is powered, Green is ON when the output is energized.

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

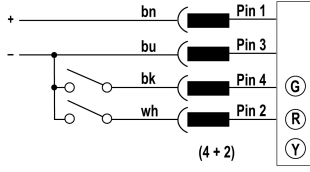


## Wiring Diagrams

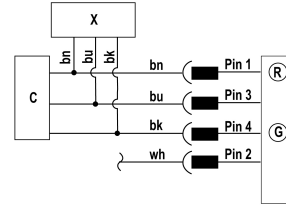
PNP (..GXRP..) 3-Color Models



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

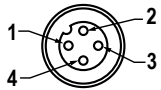


2-Color (..RGX7P..) Models



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

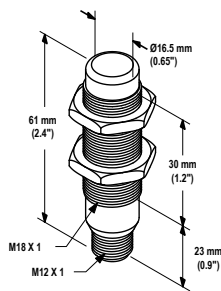
K80L has encapsulated electronics only; other models are fully encapsulated.

### Operating Conditions

-40 °C to +50 °C (-40 °F to +122 °F)

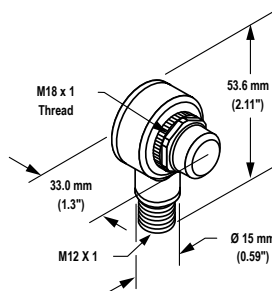
## Dimensions

M18 Models

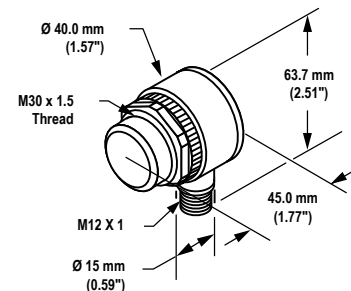


K30L Models

T18 Models

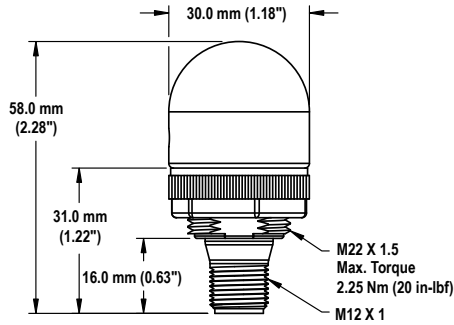


T30 Models

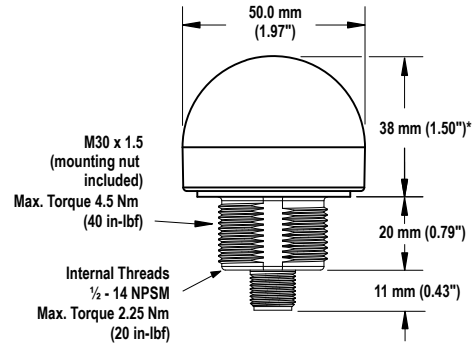


K50L Models

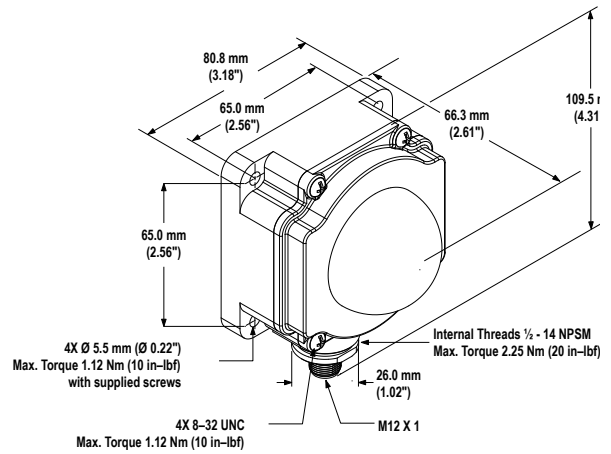
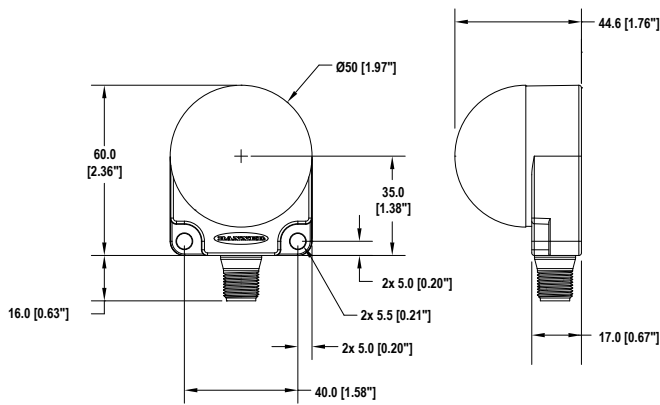
<sup>4</sup> Contact Banner Engineering for other colors and color combinations, including: blue, white, orange.



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		<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		<p>Female</p> <p>Male</p> <p>1 = Brown 2 = White 3 = Blue 4 = Black</p>
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)	Male Right-Angle/ Female Straight		<p>Female</p> <p>Male</p> <p>1 = Brown 2 = White 3 = Blue 4 = Black</p>
MQDEC-403RS	0.91 m (1 ft)			
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	<p>Female</p> <p>Male</p> <p>1 = Brown 2 = White 3 = Blue 4 = Black</p>
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

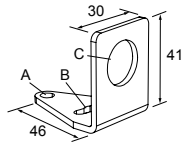
For more information about these and other available brackets, visit [www.bannerengineering.com](http://www.bannerengineering.com).

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**

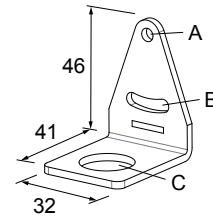
- Right-angle mounting bracket with a curved slot for versatile orientation
- 12-ga. stainless steel
- 18 mm sensor mounting hole
- Clearance for M4 (#8) hardware



Hole center spacing: A to B = 24.2  
 Hole size: A =  $\varnothing$  4.6, B = 17.0 x 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



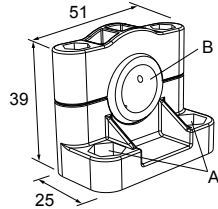
Hole center spacing: A to B = 24.2  
 Hole size: A =  $\varnothing$  4.6, B = 17 x 4.6, C =  $\varnothing$  18.5



**NOTE:** Not for use with plastic fiber optic sensors

**SMB1815SF**

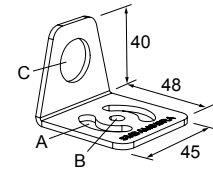
- Swivel with set screws for mounting sensors by the cable hub
- Black reinforced thermoplastic polyester
- Stainless steel swivel locking hardware and hex wrench included



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

**SMBAMS18RA**

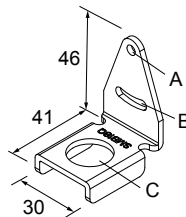
- Right-angle SMBAMS series bracket with 18 mm hole
- Articulation slots for 90+° rotation
- 12-ga. (2.6 mm) cold-rolled steel



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

**SMB18Q**

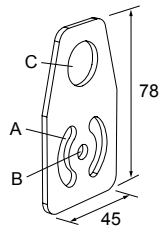
- Right-angle flanged bracket
- 18 mm sensor mounting hole
- 12-ga. stainless steel



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

**SMBAMS18P**

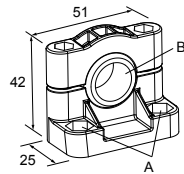
- Flat SMBAMS series bracket with 18 mm hole
- Articulation slots for 90+° rotation
- 12-ga. (2.6 mm) cold-rolled steel



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

**SMB18SF**

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

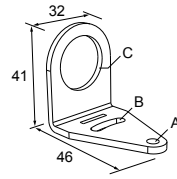


Hole center spacing: A = 36.0  
 Hole size: A =  $\varnothing$  5.3, B =  $\varnothing$  18.0

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

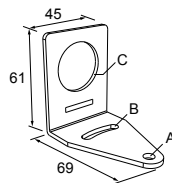


Hole center spacing: A to B = 26.0  
 Hole size: A =  $\varnothing$  4.6, B = 4.6 x 16.9, C = 22.2

For use with T30 models or base-mount K50L models

SMB30A

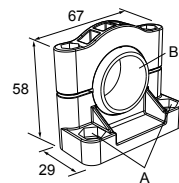
- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (1/4 in) hardware
- Mounting hole for 30 mm sensor
- 12-ga. stainless steel



Hole center spacing: A to B=40  
 Hole size: A= $\varnothing$  6.3, B= 27.1 x 6.3, C= $\varnothing$  30.5

SMB30SC

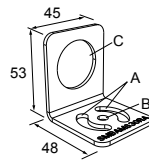
- Swivel bracket with 30 mm mounting hole for sensor
- Black reinforced thermoplastic polyester
- Stainless steel mounting and swivel locking hardware included



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

SMBAMS30RA

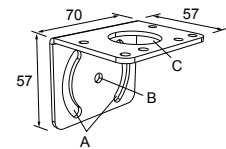
- Right-angle SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90° + rotation
- 12-ga. (2.6 mm) cold-rolled steel



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

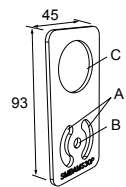
- 12-ga. stainless steel bracket with curved mounting slots for versatile orientation
- Clearance for M6 (1/4 in) hardware
- Mounting hole for 30 mm sensor



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

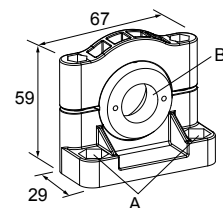
- Flat SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90° + rotation
- 12-ga. 300 series stainless steel



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

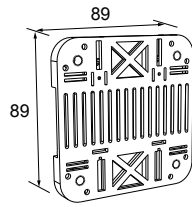


Hole center spacing: A = 50.8  
 Hole size: A =  $\varnothing$  7.0, B =  $\varnothing$  18.0

## DIN-mount bracket for K80L models

## SMBDX80DIN

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



## Banner Engineering Corp. Limited Warranty

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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.

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