

Datasheet

DC-Operated LED Indicators with 150mm PUR cable QD

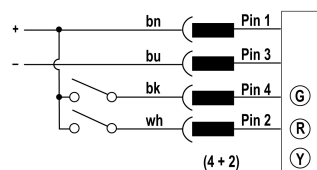
Models

Models		Construction	Connector ³	LED Function ⁴	Inputs
	M18GXRPQMA	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)
	M18GXRNQMA				NPN (Sinking)
	M18RGX7PQMA			2-color ²	PNP (Sourcing)
	T18GXRPQMA	Thermoplastic polyester housing, thermoplastic diffuser. Fully encapsulated. IP67		3-color ¹	PNP (Sourcing)
	T18GXRNQMA				NPN (Sinking)
	T18RGX7PQMA			2-color ²	PNP (Sourcing)
	T30GXRPQMA	Thermoplastic polyester housing, thermoplastic diffuser. Fully encapsulated. IP67		3-color ¹	PNP (Sourcing)
	T30GXRNQMA				NPN (Sinking)
	T30RGX7PQMA			2-color ²	PNP (Sourcing)
	K30LGXRPQMA	22 mm threaded polycarbonate base, translucent polycarbonate dome. Fully encapsulated. IP67, IP69K		3-color ¹	PNP (Sourcing)
	K30LGXRNQMA				NPN (Sinking)
	K30LRGX7PQMA			2-color ²	PNP (Sourcing)
	K50LRGX7PQMA	30 mm threaded polycarbonate base, translucent polycarbonate dome. Fully encapsulated. IP67, IP69K		2-color ²	PNP (Sourcing)
	K50FLRGX7PQMA	Polycarbonate base, translucent polycarbonate dome. Fully encapsulated. IP67, IP69K		2-color ²	PNP (Sourcing)
	K80LRGX7PQMA	ABS and polycarbonate base, translucent polycarbonate dome. Electronics fully encapsulated. IP67		2-color ²	PNP (Sourcing)

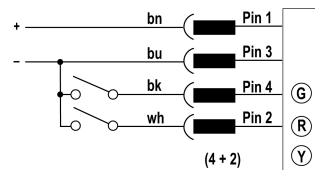
¹ Use with PNP or NPN I/O blocks to produce Green, Red, or Yellow indicator functions (see [Wiring Diagrams](#) on page 2).² Use with discrete-output sensors to provide remote indication. Red is ON when the sensor is powered, Green is ON when the output is energized.³ Mating cable required. For use with mating Euro-style QD cables or with Euro splitter, model **CSB-M1240M1240**, or equivalent.⁴ Contact Banner Engineering for other colors and color combinations, including: blue, white, orange.

Wiring Diagrams

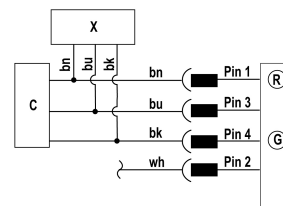
PNP (..GXRP..) 3-Color Models



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

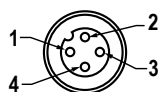


2-Color (..RGX7P..) Models



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

Pinout



Key

1 = Brown
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

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.

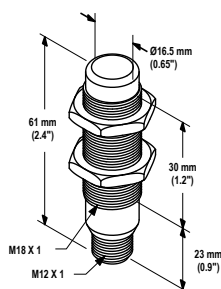
Cabled models also meet IP69K if the cable and cable entrance are protected from high-pressure spray.

Operating Conditions

-40 °C to +50 °C (-40 °F to +122 °F)

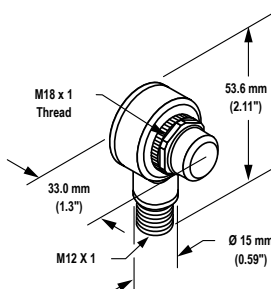
Dimensions

M18 Models

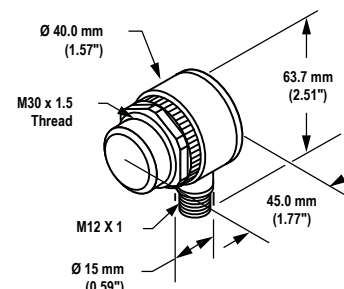


K30L Models

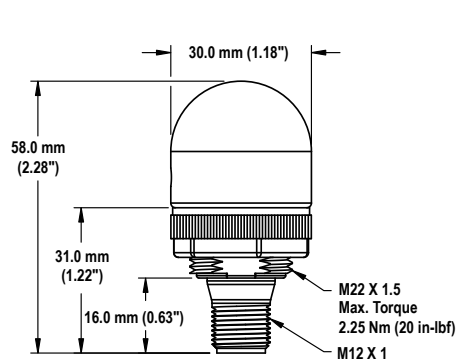
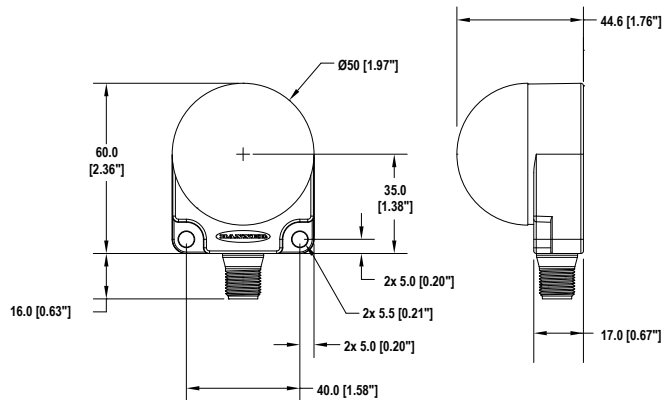
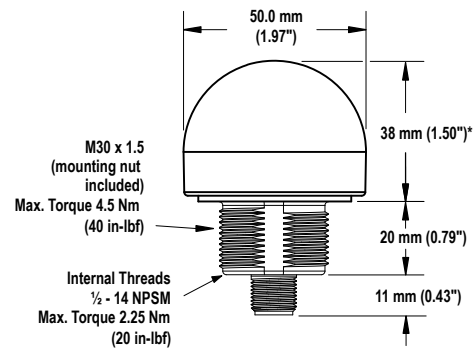
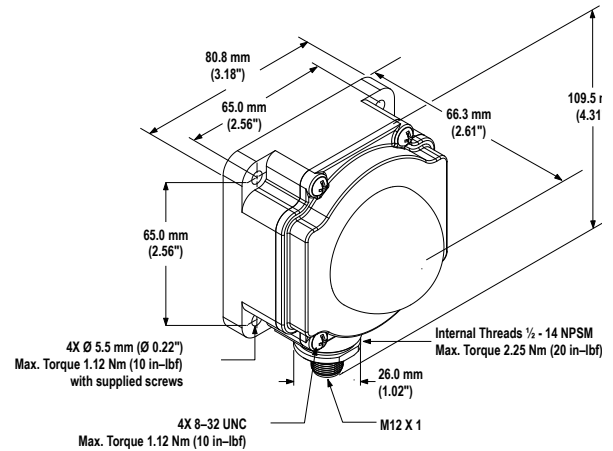
T18 Models



T30 Models

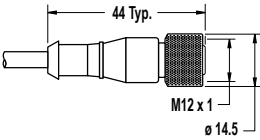
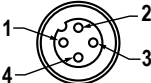
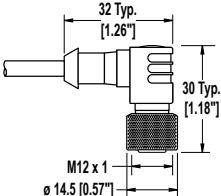


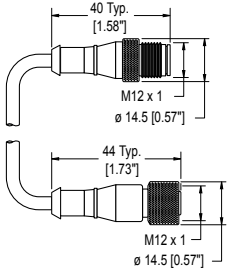
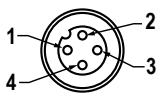
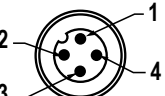
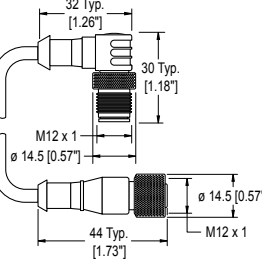
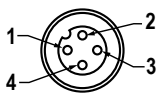
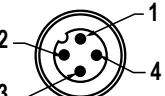
K50L Models

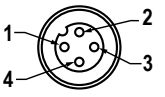
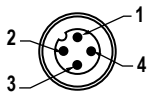
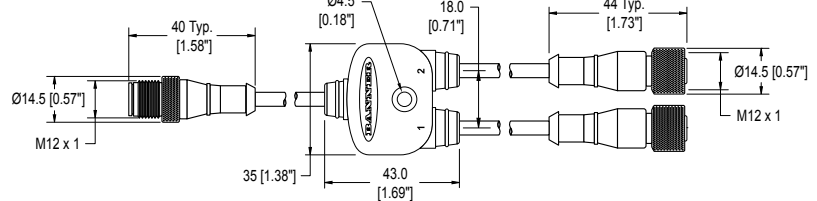
**K50FL Models****K80L Models**

Accessories

Cordsets

4-Pin Threaded M12/Euro-Style Cordsets—Single Ended				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC-406	1.83 m (6 ft)	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		<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

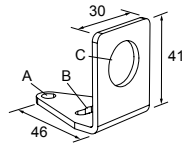
For more information about these and other available brackets, visit www.bannerengineering.com.

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

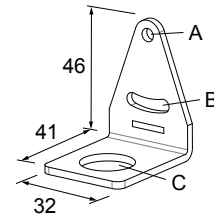
For use with M18 and T18 models or base-mount T30 models

SMB18A

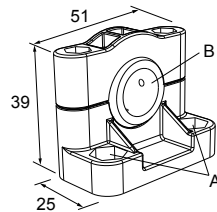
- Right-angle mounting bracket with a curved slot for versatile orientation
- 12-ga. stainless steel
- 18 mm sensor mounting hole
- Clearance for M4 (#8) hardware

**Hole center spacing:** A to B = 24.2**Hole size:** A = $\varnothing$ 4.6, B = 17.0×4.6 , C = $\varnothing$ 18.5**SMB312PD**

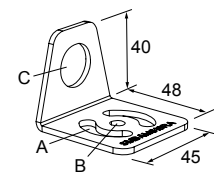
- Right-angle mounting bracket with a curved slot for versatile orientation
- 12-ga. stainless steel
- 18 mm sensor mounting hole
- Clearance for M4 (#8) hardware

**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**

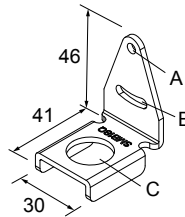
- Swivel with set screws for mounting sensors by the cable hub
- Black reinforced thermoplastic polyester
- Stainless steel swivel locking hardware and hex wrench included

**Hole center spacing:** A = 36.0**Hole size:** A = $\varnothing$ 5.0, B = $\varnothing$ 15.0**SMBAMS18RA**

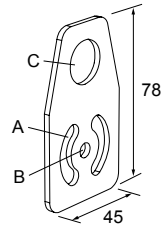
- Right-angle SMBAMS series bracket with 18 mm hole
- Articulation slots for 90+° rotation
- 12-ga. (2.6 mm) cold-rolled steel

**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**

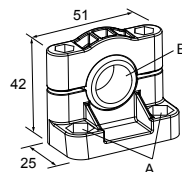
- Right-angle flanged bracket
- 18 mm sensor mounting hole
- 12-ga. stainless steel

**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**

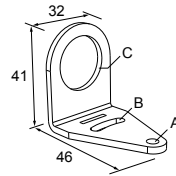
- 18 mm swivel bracket with M18 $\times$ 1 internal thread
- Black thermoplastic polyester
- Stainless steel swivel locking hardware included

**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



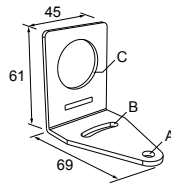
Hole center spacing: A to B = 26.0

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 (1/4 in) hardware
- Mounting hole for 30 mm sensor
- 12-ga. stainless steel

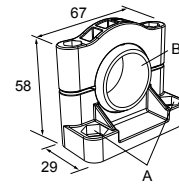


Hole center spacing: A to B=40

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

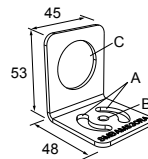


Hole center spacing: A= $\varnothing$ 50.8

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

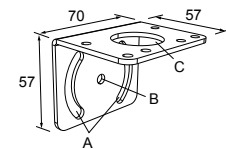


Hole center spacing: A=26.0, A to B=13.0

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

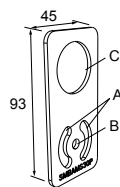


Hole center spacing: A = 51, A to B = 25.4

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

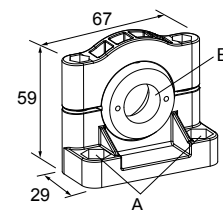


Hole center spacing: A=26.0, A to B=13.0

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



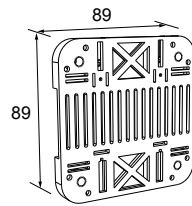
Hole center spacing: A = 50.8

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



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