

Datasheet

General purpose multicolor indicator with independent momentary touch button output



- Excellent immunity to false triggering by water spray, detergents, oils, and other foreign materials
- Rugged, cost-effective, and easy-to-install multicolor indicator with touch button
- Waterproof IP69K construction for washdown environments
- Two independent colors in one unit—Color 2 overrides Color 1
- Available with PNP and NPN inputs/outputs, depending on model
- Ergonomically designed to eliminate hand, wrist, and arm stresses associated with repeated switch operation; require no physical force to operate
- Can be actuated with bare hands or in gloves
- 12 to 30 V dc operation

Models

Model ¹	1/О Туре	Output State	Light Color 1 (Power Applied)	Light Color 2 (Input Active)	Connection	
K30APT2XRF2Q				Red		
K30APT2XGF2Q	PNP	-	Green			
K30APT2GRF2Q		N.O.	Green	Red		
K30APT2RGF2Q			Red	Green	Integral 4-pin M12/Euro- style male quick disconnect (QD)	
K30ANT2XRF2Q			-	Red		
K30ANT2XGF2Q	NDN		-	Green		
K30ANT2GRF2Q	NPN		Green	Red		
K30ANT2RGF2Q			Red	Green		

Specifications

Supply Voltage	Output Response Time
12 to 30 V dc	150 milliseconds On and Off
Supply Current	Power-Up Delay
55 mA max current (exclusive of load)	300 milliseconds
Supply Protection Circuitry	Connections
Protected against reverse polarity and transient voltages	Integral 4-pin M12/Euro-style male quick disconnect (QD); 2 m (6.5 ft)
Output Rating	PVC integral cable; 150 mm (6 in) pigtail PVC cable with a 4-pin M12/
Maximum Load: 150 mA	Euro-style male quick disconnect (QD)
ON-state saturation voltage: < 2 V at 10 mA dc; < 2.5 V at 150	Construction
mA dc	Housing: polycarbonate
OFF-state leakage current: <10 µA at 30 V dc	Translucent dome: polycarbonate Mounting Nut: PBT
	Mounting M22 × 1.5 Threaded base, max torque 2.25 N·m (20 in-lbf)

1 Integral QD models only are listed.

- To order the 4-pin 150 mm (5.9 in) Euro-style PVC pigtail models, replace suffix Q with QP in the model number (example, K30APT2XRF2QP).
- To order the 2 m (6.5 ft) cable models, omit suffix Q from the model number (example, K30APT2XRF2).
- A model with a QD requires a mating cable (see Cordsets).



Environmental Rating IEC IP67, IP69K per DIN 40050-9. Cabled models also meet IP69K if the cable and cable entrance are protected from high-pressure spray.

Operating Conditions

Temperature: -40 °C to +50 °C (-40 °F to +122 °F) Humidity: 90% at +50 °C maximum relative humidity (noncondensing)

Storage Temperature

-40 °C to +70 °C (-40 °F to +158 °F)

Vibration and Mechanical Shock

Vibration 10 Hz to 55 Hz 1.0 mm p-p amplitude per IEC 60068-2-6 Shock 30G 11 ms duration, half sine wave per IEC 60068-2-27

Certifications



Required Overcurrent Protection



WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table. Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply. Supply wiring leads < 24 AWG shall not be spliced. For additional product support, go to *http:// www.bannerengineering.com.*

 Supply Wiring (AWG)
 Required Overcurrent Protection (Amps)

 20
 5.0

 22
 3.0

 24
 2.0

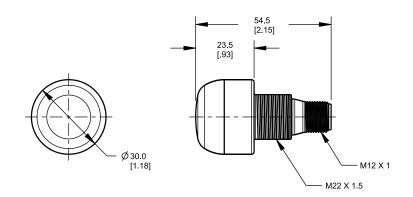
 26
 1.0

 28
 0.8

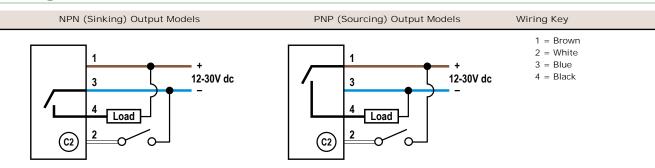
 30
 0.5

Dimensions

All measurements are listed in millimeters (inches), unless noted otherwise.



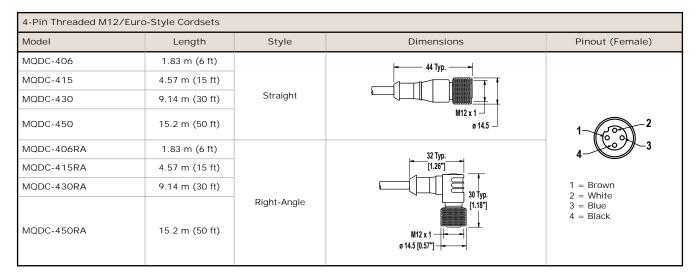
Wiring



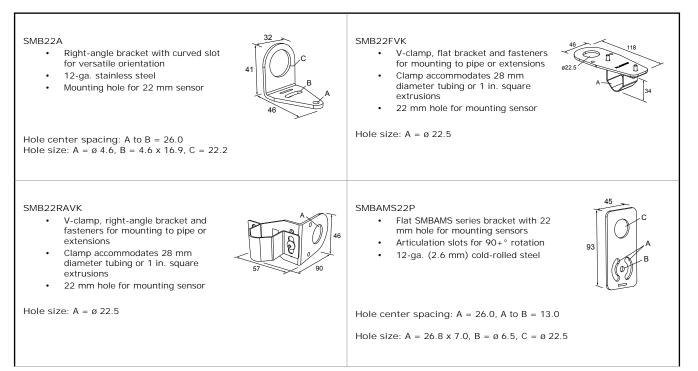
Cabled wiring diagrams are shown. Quick disconnect (QD) wiring diagrams are functionally identical.

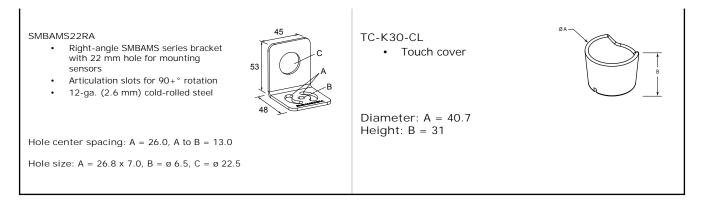
Accessories

Cordsets



Brackets





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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.

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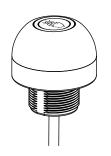




Datasheet

General purpose multicolor indicator with independent momentary touch button output

To view or download the latest technical information about this product, including specifications, dimensions, accessories, and wiring, see *http://www.bannerengineering.com*.



- FDA-grade materials; rated to IEC IP67, IP68, and IP69K
- Laser marked information withstands aggressive cleaning procedures
- Excellent immunity to false triggering by water spray, detergents, oils, and other foreign materials
- Rugged, cost-effective, and easy-to-install multicolor indicator with touch button
- Three independent colors in one unit—Color 3 overrides Colors 1 and 2, Color 2 overrides Color 1
- Available with PNP and NPN inputs/outputs, depending on model
- Ergonomically designed to eliminate hand, wrist, and arm stresses associated with repeated switch
 operation; require no physical force to operate
- Can be actuated with bare hands or in gloves
- 12 to 30 V dc operation

Models

Model ¹	I/О Туре	Output State	Color 1	Color 2	Color 3	Connection
K50APT2FGRYF2QP	PNP	N.O.	Green	Red	Yellow	150 mm (6 in) pigtail PVC cable with a 8-pin M12/Euro-style male, stainless steel, quick disconnect (QD)
K50RPT2FGRYF2QP	FINE	N.C.				
K50ANT2FGRYF2QP	NPN	N.O.				
K50RNT2FGRYF2QP	INF IN	N.C.				

Indicator and Output Behavior

Table 1: PNP Models

	Input A	ctions	Touch Button Actions			
Input #1: Pin 3 Green Wire	Input #2: Pin 8 Red Wire	Input #3: Pin 4 Yellow Wire	LED Color	Output Type	Touch	Output: Pin 1 White Wire
Open or -Vdc	Open or -Vdc	Open or -Vdc	Light Off	N.O.	Not touched	PNP Output Off
+V dc	Open or -Vdc	Open or -Vdc	Color #1 On		Touched	PNP Output On
+V dc	+V dc	Open or -Vdc	Color #2 On	N.C.	Not touched	PNP Output On
+V dc	+V dc	+V dc	Color #3 On	-	Touched	PNP Output Off
Open or -Vdc	+V dc	Open or -Vdc	Color #2 On		1	
Open or -Vdc	+V dc	+V dc	Color #3 On			
Open or -Vdc	Open or -Vdc	+V dc	Color #3 On			
+V dc	Open or -Vdc	+V dc	Color #3 On			

Table 2: NPN Models

	Input Ac	tions	Touch Button Actions			
Input #1: Pin 3 Green Wire	I nput #2: Pin 8 Red Wire	Input #3: Pin 4 Yellow Wire	LED Color	Output Type	Touch	Output: Pin 1 White Wire
Open or +V dc	Open or +V dc	Open or +V dc	Light Off	N.O.	Not touched	NPN Output Off

1 To order the 2 m (6.5 ft) cable models, omit suffix QP from model number (example, K50APT2FGRYF2).



	Input Ad	ctions	Touch Button Actions			
Input #1: Pin 3 Green Wire	I nput #2: Pin 8 Red Wire	Input #3: Pin 4 Yellow Wire	LED Color	Output Type	Touch	Output: Pin 1 White Wire
-Vdc	Open or +V dc	Open or +V dc	Color #1 On		Touched	NPN Output On
-Vdc	-Vdc	Open or +V dc	Color #2 On	N.C.	Not touched	NPN Output On
-Vdc	-Vdc	-Vdc	Color #3 On	•	Touched	NPN Output Off
Open or +V dc	-Vdc	Open or +V dc	Color #2 On		•	
Open or +V dc	-Vdc	-Vdc	Color #3 On			
Open or +V dc	Open or +V dc	-Vdc	Color #3 On			
-Vdc	Open or +V dc	-Vdc	Color #3 On			

Specifications

Supply Voltage

12 to 30 V dc

Supply Current

- < 75 mA max current at 12 V dc (exclusive of load)
- < 50 mA max current at 30 V dc (exclusive of load)

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Output Rating

- Maximum Load: 150 mA
- ON-state saturation voltage: < 2 V at 10 mA dc; < 2.5 V at 150 mA dc

OFF-state leakage current: <10 µA at 30 V dc

Output Response Time

50 milliseconds On and Off

Environmental Rating

IEC IP67, IP69K per DIN 40050-9.

Operating Conditions

 $-40\ ^\circ C$ to $+50\ ^\circ C$ (–40 $^\circ F$ to $+122\ ^\circ F) 90\%$ at 50 $^\circ C$ maximum relative humidity (non-condensing)

Storage

-40 °C to +70 °C (-40 °F to +158 °F)

Vibration and Mechanical Shock

Vibration 10 Hz to 55 Hz 1.0 mm p-p amplitude per IEC 60068-2-6 Shock 30G 11 ms duration, half sine wave per IEC 60068-2-27

Certifications



Power-Up Delay 300 milliseconds

500 minisecond

Indicators

- Color 1: Green
- Color 2: Red Color 3: Yellow

0001 3. 16

Connections

150 mm (6 in) pigtail PVC cable with a 8-pin M12/Euro-style male, stainless steel, quick disconnect (QD), or 2 m (6.5 ft) PVC integral cable

Construction Base, dome, and nut: FDA-grade polycarbonate

Mounting

M30 \times 1.5 Threaded base Max torque 4.5 N·m (40 in lbf)

Required Overcurrent Protection



WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

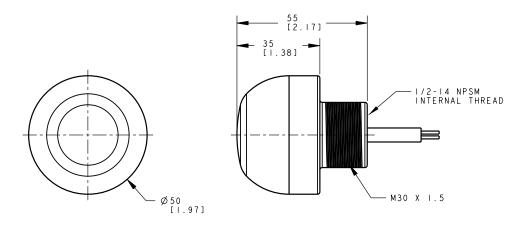
Overcurrent protection is required to be provided by end product application per the supplied table.

Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply. Supply wiring leads < 24 AWG shall not be spliced.

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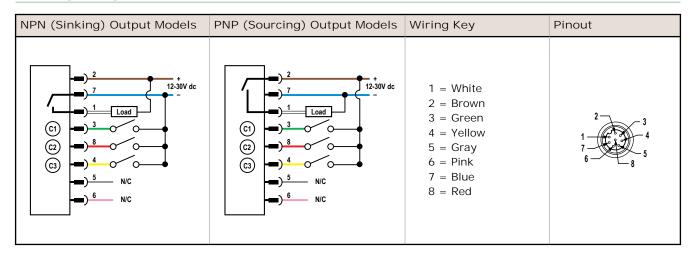
Supply Wiring (AWG)	Required Overcurrent Protection (Amps)
20	5.0
22	3.0
24	2.0
26	1.0
28	0.8
30	0.5

Dimensions



All measurements are listed in millimeters (inches), unless noted otherwise.

Wiring Diagram



Accessories

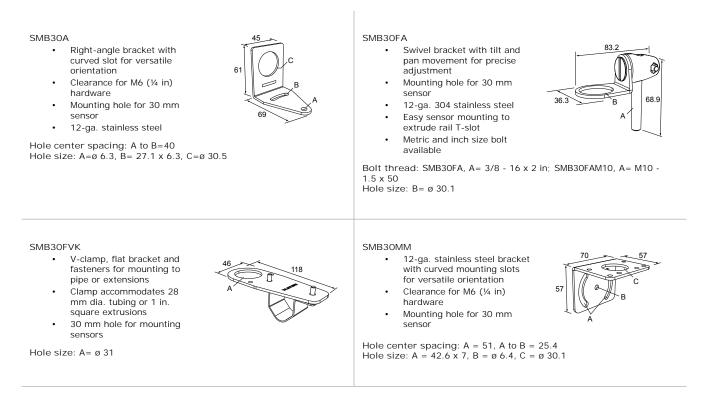
Cordsets

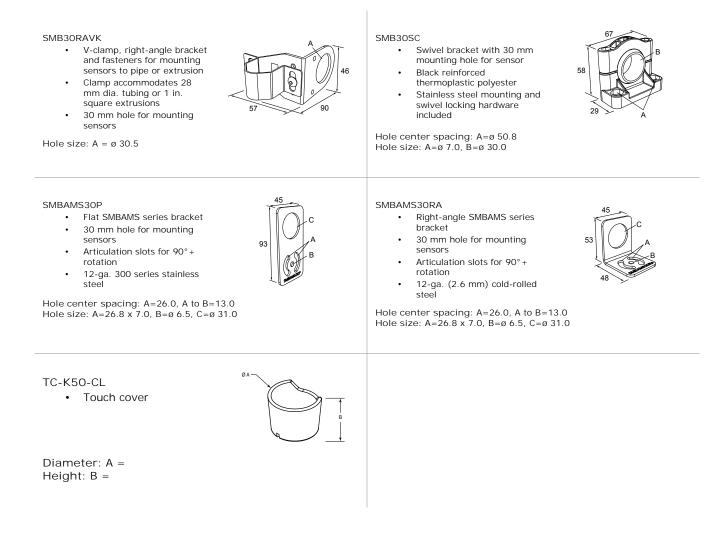
8-Pin Threaded M12/Euro-Style Cordsets with Open-Shield								
Model	Length	Style	Dimensions	Pinout (Female)				
MQDC2S-806	1.83 m (6 ft)							
MQDC2S-815	4.57 m (15 ft)			2 2				
MQDC2S-830	9.14 m (30 ft)			1-4				
MQDC2S-850	15.2 m (50 ft)	Straight	44 Typ. 44 Typ. 412 x 1 0 14.5	7 - 5 $1 = White$ $2 = Brown$ $3 = Green$ $4 = Yellow$ $5 = Gray$ $6 = Pink$ $7 = Blue$ $8 = Red$				

8-Pin Threaded M12/Euro-Style Cordsets with Open-Shield								
Model	Length	Style	Dimensions	Pinout (Female)				
MQDC2S-806RA	1.83 m (6 ft)							
MQDC2S-815RA	4.57 m (15 ft)		32 Typ [1.26"]					
MQDC2S-830RA	9.14 m (30 ft)	-						
MQDC2S-850RA	15.2 m (50 ft)	Right-Angle	30 Typ. [1.18"] μμμμμμμμμμμμμμμμμμμμμμμμμμμμμμμμμμμμ					

8-Pin Threaded M12/Euro-Style Cordsets with Open-Shield—Washdown, Stainless Steel								
Model	Length	Style	Dimensions	Pinout (Female)				
MQDC-WDSS-0806	1.83 m (6 ft)							
MQDC-WDSS-0815	4.57 m (15 ft)	Straight	44 Typ. 44 Typ	$\begin{array}{c} 2 \\ 1 \\ 7 \\ 6 \end{array}$				
MQDC-WDSS-0830	9.14 m (30 ft)		ø 14.5 –	1 = White 5 = Gray 2 = Brown 6 = Pink 3 = Green 7 = Blue 4 = Yellow 8 = Red				

Brackets





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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.

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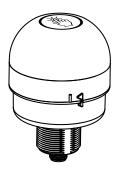


EZ-LIGHT[®] Touch K70 Series Illuminated Multipurpose Buttons



Datasheet

General purpose multicolor indicator with independent momentary touch button output



- Excellent immunity to false triggering by water spray, detergents, oils, and other foreign materials
- Rugged, cost-effective, and easy-to-install multicolor indicator with touch button
- Three independent colors in one unit—Color 3 overrides Colors 1 and 2, Color 2 overrides Color 1
- Available with PNP and NPN inputs/outputs, depending on model
- Ergonomically designed to eliminate hand, wrist, and arm stresses associated with repeated
 switch operation; require no physical force to operate
- Can be actuated with bare hands or in gloves
- 12 to 30 V dc operation

Models

Model ¹	I/О Туре	Output State	Color 1	Color 2	Color 3	Connection
K70APT2GRYF2Q	PNP	N.O.	Green			Integral 8-pin M12/Euro- style male quick disconnect (QD)
K70RPT2GRYF2Q		N.C.		Red	Yellow	
K70ANT2GRYF2Q	NPN	N.O.		Red	renow	
K70RNT2GRYF2Q		N.C.				

Indicator and Output Behavior

Table 1: PNP Models

	Input A	ctions	Touch Button Actions			
Input #1: Pin 3 Green Wire	I nput #2: Pin 8 Red Wire	Input #3: Pin 4 Yellow Wire	LED Color	Output Type	Touch	Output: Pin 1 White Wire
Open or -Vdc	Open or -Vdc	Open or -Vdc	Light Off	N.O.	Not touched	PNP Output Off
+V dc	Open or -Vdc	Open or -Vdc	Color #1 On		Touched	PNP Output On
+V dc	+V dc	Open or -Vdc	Color #2 On	N.C.	Not touched	PNP Output On
+V dc	+V dc	+V dc	Color #3 On	-	Touched	PNP Output Off
Open or -Vdc	+V dc	Open or -Vdc	Color #2 On		-	
Open or -Vdc	+V dc	+V dc	Color #3 On			
Open or -Vdc	Open or -Vdc	+V dc	Color #3 On			
+V dc	Open or -Vdc	+V dc	Color #3 On			

• To order the 2 m (6.5 ft) cable models, omit suffix Q from model number (example, K70APT2GRYF2).



¹ Integral QD models only are listed. A model with a QD requires a mating cable (see *Cordsets* on page 4)

[•] To order the 8-pin 150 mm (5.9 in) Euro-style PVC pigtail models, replace suffix Q with QP in model number (example, K70APT2GRYF2QP).

Table 2: NPN Models

	Input A	ctions	Touch Button Actions			
I nput #1: Pin 3 Green Wire	Input #2: Pin 8 Red Wire	Input #3: Pin 4 Yellow Wire	LED Color	Output Type	Touch	Output: Pin 1 White Wire
Open or +V dc	Open or +V dc	Open or +V dc	Light Off	N.O.	Not touched	NPN Output Off
-Vdc	Open or +V dc	Open or +V dc	Color #1 On		Touched	NPN Output On
-Vdc	-Vdc	Open or +V dc	Color #2 On	N.C.	Not touched	NPN Output On
-Vdc	-Vdc	-Vdc	Color #3 On	•	Touched	NPN Output Off
Open or +V dc	-Vdc	Open or +V dc	Color #2 On			
Open or +V dc	-Vdc	-Vdc	Color #3 On			
Open or +V dc	Open or +V dc	-Vdc	Color #3 On			
-Vdc	Open or +V dc	-Vdc	Color #3 On			

Specifications

Supply Voltage

12 to 30 V dc

Supply Current

- < 220 mA maximum current at 12 V dc (exclusive of load) < 110 mA maximum current at 30 V dc (exclusive of load)
- Supply Protection Circuitry
- Protected against reverse polarity and transient voltages

Output Rating

- Maximum Load: 150 mA
- ON-State Saturation Voltage: < 2 V dc at 10 mA ; < 2.5 V dc at 150 mA
- OFF-State Leakage Current: < 10 μ A at 30 V dc

Output Response Time:

50 ms ON and OFF

Environmental Rating

IEC IP65

Storage

-40 °C to +70 °C (-40 °F to +158 °F)

Operating Conditions

-40 °C to +50 °C (-40 °F to +122 °F) 90% at +50 °C maximum relative humidity (non-condensing)

Vibration and Mechanical Shock

Vibration 10 Hz to 55 Hz 1.0 mm p-p amplitude per IEC 60068-2-6 Shock 30G 11 ms duration, half sine wave per IEC 60068-2-27 Certifications





Power-Up Delay

300 ms

Indicators Color 1: Green

- Color 2: Red
- Color 3: Yellow

Construction

Housing and dome: Polycarbonate Mounting nut: PBT

Connections

Integral 8-pin M12/Euro-style male quick disconnect (QD); 2 m (6.5 ft) unterminated PVC-jacketed cable; or 150 mm (6 in) pigtail PVC cable with a 8-pin M12/Euro-style male quick disconnect (QD)

Mounting

M30 \times 1.5 threaded base; maximum torque 4.5 N·m (40 in·lbf)

Required Overcurrent Protection

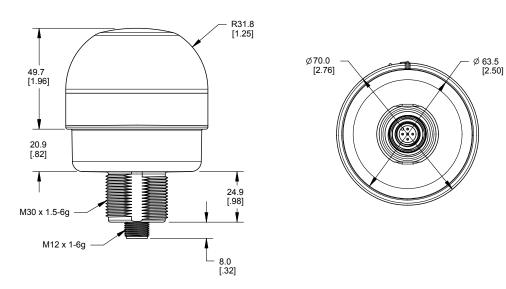


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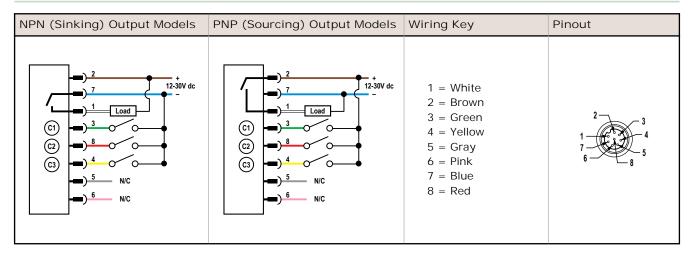
Supply Wiring (AWG)	Required Overcurrent Protection (Amps)
20	5.0
22	3.0
24	2.0
26	1.0
28	0.8
30	0.5

Dimensions



All measurements are listed in millimeters (inches), unless noted otherwise.

Wiring Diagram

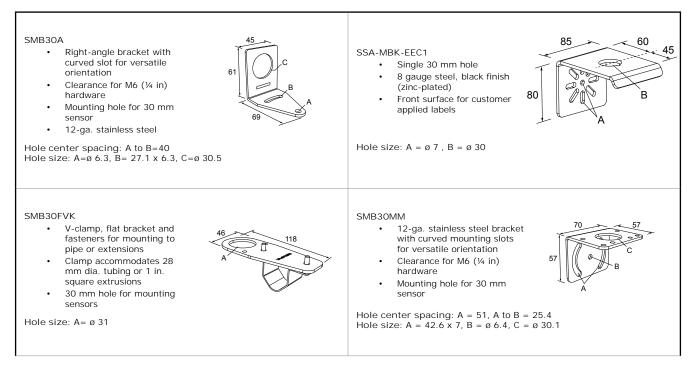


Accessories

Cordsets

8-Pin Threaded M12/Euro-Style Cordsets with Open-Shield						
Model	Length	Style Dimensions		Pinout (Female)		
MQDC2S-806	1.83 m (6 ft)	Straight	44 Typ M12 x 1 0 14.5	1 = White $2 = Brown$ $3 = Green$ $4 = Yellow$ $5 = Gray$ $6 = Pink$ $7 = Blue$ $8 = Red$		
MQDC2S-815	4.57 m (15 ft)					
MQDC2S-830	9.14 m (30 ft)					
MQDC2S-850	15.2 m (50 ft)					
MQDC2S-806RA	1.83 m (6 ft)	_	32 Typ. [1.26"] 30 Typ. [1.18"] M12 x 1 0 14.5 [0.57"]			
MQDC2S-815RA	4.57 m (15 ft)					
MQDC2S-830RA	9.14 m (30 ft)					
MQDC2S-850RA	15.2 m (50 ft)	Right-Angle				

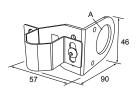
Brackets



SMB30RAVK

- V-clamp, right-angle bracket and fasteners for mounting sensors to pipe or extrusion
- Clamp accommodates 28
 mm dia. tubing or 1 in.
 square extrusions
- 30 mm hole for mounting sensors

Hole size: $A = \emptyset 30.5$

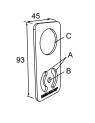


SMBAMS30P

- 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



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more sensors, more solutions