S15L In-Line Sensor Status Indicator



Datasheet



- Bright indication of sensor power and output status
- Two colors - one for power and one for sensor output status
- Rugged over-molded design meets IP66, IP67, and IP68 •
- Connected directly to a sensor or anywhere in-line for easy visual indication
 Models available with PNP or NPN inputs

Models

Table 1: 4-Pin M12 Models

Models	Power ON (Color 1)	Input Active (Color 2)	Input Type	Connection
S15LGYPQ	Green	Yellow	PNP	
S15LGYNQ		Tellow	NPN	
S15LGRPQ		Red	PNP	4-Pin Male/Female M12 guick disconnect
S15LGRNQ			Red	NPN
S15LRGPQ	Red	Green	PNP	
S15LYGPQ	Yellow	Green		

Table 2: 3-Pin M8 Models

Models	Power ON (Color 1)	Input Active (Color 2)	Input Type	Connection	
S15LGYPM8Q3	Green	Yellow	PNP		
S15LGYNM8Q3		renow	NPN		
S15LGRPM8Q3		Green	Red	PNP	2 Din Male (Fernale M9 quial diagonaget
S15LGRNM8Q3				NPN	3-Pin Male/Female M8 quick disconnect
S15LRGPM8Q3	Red	Green	PNP		
S15LYGPM8Q3	Yellow	Green			

Wiring

Table 3: Wiring Diagram - 4-Pin M12 Models

Male	Female	Pin	Wire Color	Description 1
		1	Brown	10 V DC to 30 V DC: Power LED will be ON (Color 1)
	$4 \bigcirc 2$	2	White	Not used; Passes through
		3	Blue	DC Common
		4	Black	Input from sensor: Color 2 overrides Color 1 when active

Table 4: Wiring Diagram - 3-Pin M8 Models

	Male	Female	Pin	Wire Color	Description	
Γ	4	4	1	Brown	10 V DC to 30 V DC: Power LED will be ON (Color 1)	
	4	4 700	3	Blue	DC Common	
		3-00-1	4	Black	Input from Sensor: Color 2 overrides Color 1 when active	



¹ Continuity between male and female connection for all four wires, including IO-link communications.

Specifications

Supply Voltage 10 V DC to 30 V DC at 15 mA maximum

Supply Protection Circuitry Protected against reverse polarity and transient voltages Leakage Current Immunity

400 µA

Indicators

2 colors Color 2 overrides Color 1

Connections

Integral male/female 4-pin M12 quick disconnect Integral male/female 3-Pin M8 quick disconnect

Construction

Coupling Material: Nickel-plated brass Connector Body: PVC translucent white

Certifications

Banner Engineering Europe Park Lane, Culliganlaan 2F bus 3, 1831 Diegem, BELGIUM (4-pin M12 Models Only)

Safety (4-Pin M12 Models Only): The S15L Indicator design and PCB composition were evaluated and approved for use with the Banner 4-pin or 5-pin M12 safety products.



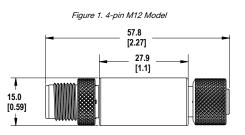
Turck Banner LTD Blenheim House, Blenheim Court, Wickford, Essex SS11 8YT, Great Britain

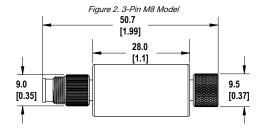


40 °C (104 °F) maximum operating temperature for applications requiring UL

Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise.





Environmental Rating 4-Pin M12 Models: IP66, IP67, IP68, UL Type 1 3-Pin M8 Models: IP67

Required Overcurrent Protection

Supply Wiring (AWG)

20

22

24

26

28

30

/!\

Operating Conditions Temperature: -40 °C to +50 °C (-40 °F to +122 °F) 90% at +50 °C maximum relative humidity (non-condensing) Storage Temperature: -40 °C to +70 °C (-40 °F to +158 °F)

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

Required Overcurrent Protection (Amps)

5.0

3.0

2.0

10

0.8

0.5

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 www.bannerengineering.com.

Accessories

Cordsets

4-Pin Threaded M12 0	4-Pin Threaded M12 Cordsets—Single Ended							
Model	Length	Style	Dimensions	Pinout (Female)				
MQDC-406	2 m (6.56 ft)		44 Typ. ————					
MQDC-415	5 m (16.4 ft)		44 Iyβ.	$\begin{array}{c}1\\4\end{array}$				
MQDC-430	9 m (29.5 ft)	Straight						
MQDC-450	15 m (49.2 ft)	Straight	M12 x1 ø 14.5		1 = Brown 2 = White			
MQDC-406RA	2 m (6.56 ft)		32 Typ. [1.26"]	2 3				
MQDC-415RA	5 m (16.4 ft)				3 = Blue			
MQDC-430RA	9 m (29.5 ft)				4 = Black 5 = Unused			
MQDC-450RA	15 m (49.2 ft)	Right-Angle	≤ 1.18"] m12 x 1 - + - + - + - + - + - + - + - + - + -	1				

4-Pin Threaded M12 Cordsets—Double Ended							
Model	Length	Style	Dimensions	Pinout			
MQDEC-401SS	0.31 m (1 ft)			Female			
MQDEC-403SS	0.91 m (2.99 ft)	_					
MQDEC-406SS	1.83 m (6 ft)	-	40 Typ. [1.58"]	1 600 4			
MQDEC-412SS	3.66 m (12 ft)			4 3			
MQDEC-420SS	6.10 m (20 ft)			_			
MQDEC-430SS	9.14 m (30.2 ft)			Male			
MQDEC-450SS	15.2 m (49.9 ft)	Male Straight/Fernale Straight		1 = Brown $2 = White$ $3 = Blue$ $4 = Black$			

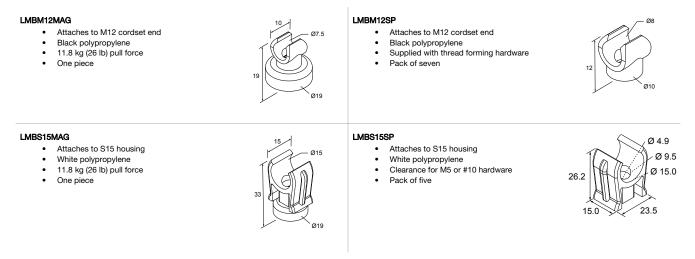
3-pin Threaded M8 Cordsets—Double Ended							
Model	Length	Style	Dimensions	Pinout			
PKG3M35-PSG3M	0.35 m (1.15 ft)			Female			
PKG3M-1.0-PSG3M	1 m (3.28 ft)		35 Typ	4			
PKG3M-2-PSG3M	2 m (6.56 ft)		<u>+</u>				
PKG3M-4-PSG3M	4 m (13.12 ft)		ø 9.5	3-1-1			
PKG3M-9.0-PSG3M	9 m (29.53 ft)	Female Straight/Male Straight	42 Typ	Male 4 1 1 = Brown 3 = Blue 4 = Black			

Connection Conversion Cordsets

3-pin Threaded M8 to 4-pin Threaded M12 Cordsets—Double Ended							
Model	Length	Style	Dimensions	Pinout (Female)	Pinout (Male)		
PKG3M5-MQDCM410	0.15 m (0.49 ft)	Female Straight/ Male Straight	40 mm max 40 mm max 40 mm max 14.5 12 x 1	4 3 1 = Brown 3 = Blue 4 = Black	1 = Brown $2 = No connection$ $3 = Blue$ $4 = Black$		

4-pin Threaded M12 to 3-pin Threaded M8 Cordsets—Double Ended							
Model	Length	Style	Dimensions	Pinout (Female)	Pinout (Male)		
BC-M12F4-M8M3-24-0.16M	0.16 m (0.52 ft)	Male Straight/ Female Straight	41.5 mm M8 x 1 43.5 mm max. M8 x 1 41.5 mm M8 x 1 41.5 mm M8 x 1 41.5 mm M8 x 1 41.5 mm M8 x 1 M8 x 1 M8 x 1	1 = Brown $2 = No connection$ $3 = Blue$ $4 = Black$	4 1 = Brown 3 = Blue 4 = Black		

Brackets



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