S15L In-Line Sensor Status Indicator

Datasheet

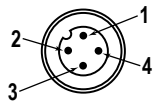
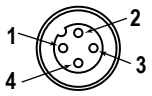


- Bright indication of sensor power and output status
- Two colors - one for power and one for sensor output status
- Rugged over-molded design meets IEC IP66, IEC IP67, and IEC IP68
- Connected directly to a sensor or anywhere in-line for easy visual indication
- Models available with PNP or NPN inputs

Models

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

Wiring Diagrams

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

*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

Construction
Coupling Material: Nickel-plated brass
Connector Body: PUR translucent white

Vibration and Mechanical Shock
Meets IEC 60068-2-6 requirements (Vibration: 10 Hz to 55 Hz, 0.5 mm amplitude, 5 minutes sweep, 30 minutes dwell)
Meets IEC 60068-2-27 requirements (Shock: 15G 11 ms duration, half sine wave)

Certifications

c UL us LISTED

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

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

Environmental Rating
IP66, IP67, IP68
NEMA/UL Type 1

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)

Required Overcurrent Protection

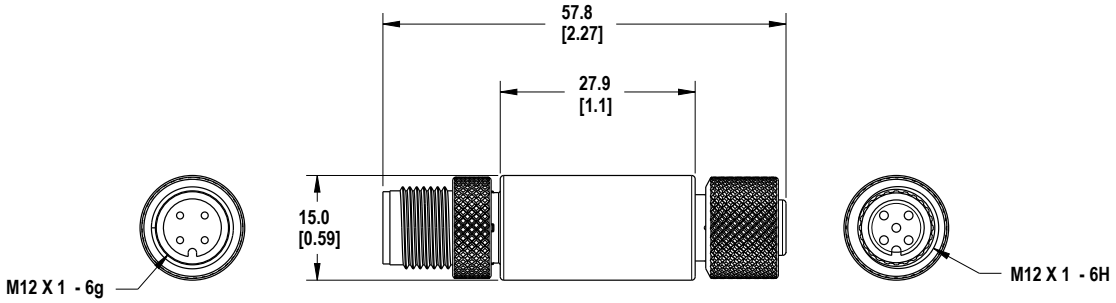
WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

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 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

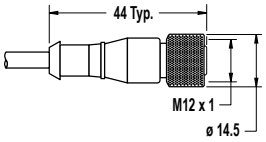
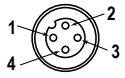
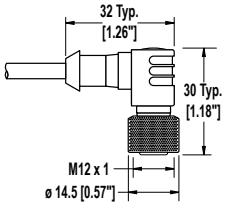
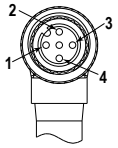
Dimensions

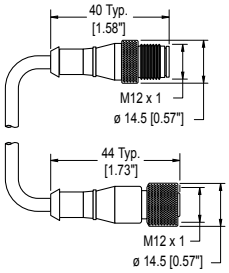
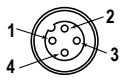
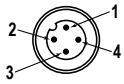
All measurements are listed in millimeters [inches], unless noted otherwise.

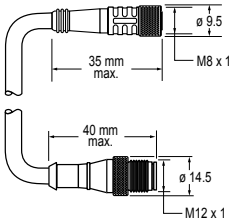
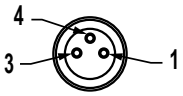
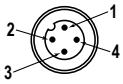


Accessories

Cordsets

4-Pin Threaded M12 Cordsets—Single Ended					
Model	**Length**	**Style**	**Dimensions**	**Pinout (Female)**	
MQDC-406	2 m (6.56 ft)	Straight			1 = Brown 2 = White 3 = Blue 4 = Black
MQDC-415	5 m (16.4 ft)				
MQDC-430	9 m (29.5 ft)				
MQDC-450	15 m (49.2 ft)				
MQDC-406RA	2 m (6.56 ft)	Right-Angle			
MQDC-415RA	5 m (16.4 ft)				
MQDC-430RA	9 m (29.5 ft)				
MQDC-450RA	15 m (49.2 ft)				

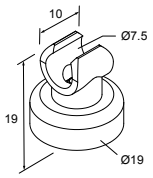
4-Pin Threaded M12 Cordsets—Double Ended				
Model	**Length**	**Style**	**Dimensions**	**Pinout**
MQDEC-401SS	0.31 m (1 ft)	Male Straight/Female Straight		Female  Male  1 = Brown 2 = White 3 = Blue 4 = Black
MQDEC-403SS	0.91 m (2.99 ft)			
MQDEC-406SS	1.83 m (6 ft)			
MQDEC-412SS	3.66 m (12 ft)			
MQDEC-420SS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

3-pin Threaded M8 to 4-pin Threaded M12 Cordsets—Double Ended					
Model	**Length**	**Style**	**Dimensions**	**Pinout (Female)**	**Pinout (Male)**
PKG3M-.5-MQDCM410	0.15 m (0.49 ft)	Female Straight/ Male Straight		 1 = Brown 3 = Blue 4 = Black	 1 = Brown 2 = No connection 3 = Blue 4 = Black

Brackets

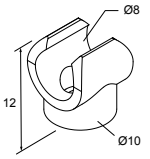
LMBM12MAG

- Attaches to M12 cordset end
- Black polypropylene
- 11.8 kg (26 lb) pull force
- One piece



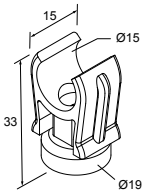
LMBM12SP

- Attaches to M12 cordset end
- Black polypropylene
- Supplied with thread forming hardware
- Pack of seven



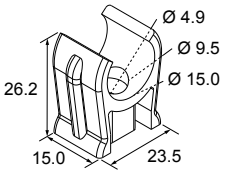
LMBS15MAG

- Attaches to S15 housing
- White polypropylene
- 11.8 kg (26 lb) pull force
- One piece



LMBS15SP

- Attaches to S15 housing
- White polypropylene
- Clearance for M5 or #10 hardware
- Pack of five



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