

# 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  $\mu$ A

### 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



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.

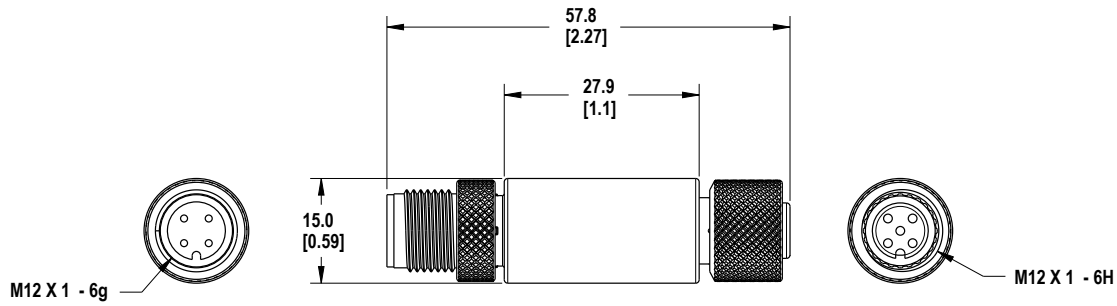
For additional product support, go to [www.bannerengineering.com](http://www.bannerengineering.com).

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.

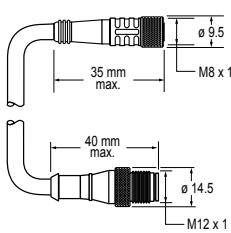
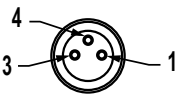
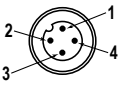


## Accessories

### Cordsets

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

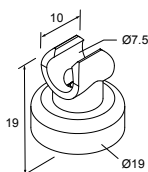
4-Pin Threaded M12 Cordsets—Double Ended				
Model	Length	Style	Dimensions	Pinout
MQDEC-401SS	0.31 m (1 ft)	Male Straight/Female Straight		Female
MQDEC-403SS	0.91 m (2.99 ft)			
MQDEC-406SS	1.83 m (6 ft)			Male
MQDEC-412SS	3.66 m (12 ft)			
MQDEC-420SS	6.10 m (20 ft)			
MQDEC-430SS	9.14 m (30.2 ft)			
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		 <p>1 = Brown 3 = Blue 4 = Black</p>	 <p>1 = Brown 2 = No connection 3 = Blue 4 = Black</p>

## Brackets

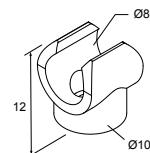
### LMBM12MAG

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



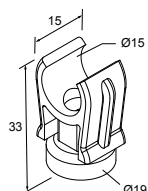
### LMBM12SP

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



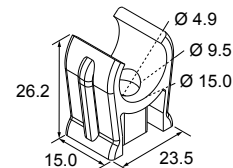
### LMBS15MAG

- 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



## Banner Engineering Corp. Limited Warranty

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.

**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.**

This Warranty is exclusive and limited to repair or, at the discretion of Banner Engineering Corp., replacement. **IN NO EVENT SHALL BANNER ENGINEERING CORP. BE LIABLE TO BUYER OR ANY OTHER PERSON OR ENTITY FOR ANY EXTRA COSTS, EXPENSES, LOSSES, LOSS OF PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM ANY PRODUCT DEFECT OR FROM THE USE OR INABILITY TO USE THE PRODUCT, WHETHER ARISING IN CONTRACT OR WARRANTY, STATUTE, TORT, STRICT LIABILITY, NEGLIGENCE, OR OTHERWISE.**

Banner Engineering Corp. reserves the right to change, modify or improve the design of the product without assuming any obligations or liabilities relating to any product previously manufactured by Banner Engineering Corp. Any misuse, abuse, or improper application or installation of this product or use of the product for personal protection applications when the product is identified as not intended for such purposes will void the product warranty. Any modifications to this product without prior express approval by Banner Engineering Corp will void the product warranties. All specifications published in this document are subject to change; Banner reserves the right to modify product specifications or update documentation at any time. Specifications and product information in English supersede that which is provided in any other language. For the most recent version of any documentation, refer to: [www.bannerengineering.com](http://www.bannerengineering.com).

For patent information, see [www.bannerengineering.com/patents](http://www.bannerengineering.com/patents).