

# 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
S15LGYQPQ	Green	Yellow	PNP	4-Pin Male/Female M12 quick disconnect
S15LGYNPQ			NPN	
S15LGRPQ		Red	PNP	
S15LGRNPQ			NPN	
S15LRGPQ	Red	Green	PNP	
S15LYGPQ	Yellow			

Table 2: 3-Pin M8 Models

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

## Wiring

Table 3: Wiring Diagram - 4-Pin M12 Models

Male	Female	Pin	Wire Color	Description <sup>1</sup>
		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

Table 4: Wiring Diagram - 3-Pin M8 Models

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

<sup>1</sup> 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  
Integral male/female 3-Pin M8 quick disconnect

### Construction

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

### Certifications



(4-pin M12 Models Only)



(4-pin M12 Models Only)



### Banner Engineering Europe

Park Lane,  
Culliganlaan 2F bus 3,  
1831 Diegem, BELGIUM

### Turck Banner LTD

Blenheim House, Blenheim  
Court, Wickford, Essex  
SS11 8YT, Great Britain

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

### 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.

### Environmental Rating

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

### 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.

Figure 1. 4-pin M12 Model

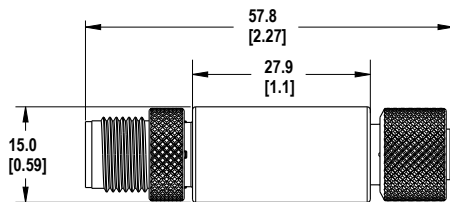
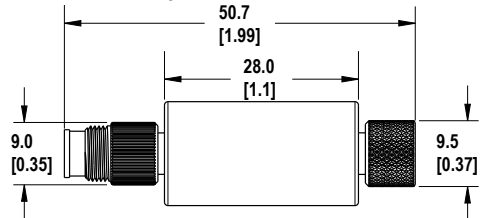


Figure 2. 3-Pin M8 Model



## 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 5 = Unused
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	
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)			1 = Brown 2 = White 3 = Blue 4 = Black	

3-pin Threaded M8 Cordsets—Double Ended					
Model	Length	Style	Dimensions	Pinout	
PKG3M-.35-PSG3M	0.35 m (1.15 ft)	Female Straight/Male Straight		Female	
PKG3M-1.0-PSG3M	1 m (3.28 ft)				
PKG3M-2-PSG3M	2 m (6.56 ft)			Male	
PKG3M-4-PSG3M	4 m (13.12 ft)				
PKG3M-9.0-PSG3M	9 m (29.53 ft)				

Connection Conversion Cordsets

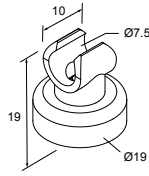
3-pin Threaded M8 to 4-pin Threaded M12 Cordsets—Double Ended						
Model	Length	Style	Dimensions	Pinout (Female)	Pinout (Male)	
PKG3M-5-MQDCM410	0.15 m (0.49 ft)	Female Straight/ Male Straight		<p>1 = Brown 3 = Blue 4 = Black</p>	<p>1 = Brown 2 = No connection 3 = Blue 4 = Black</p>	

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		<p>1 = Brown 2 = No connection 3 = Blue 4 = Black</p>	<p>1 = Brown 3 = Blue 4 = Black</p>	

## Brackets

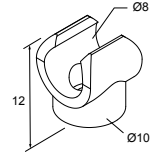
### LMBM12MAG

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



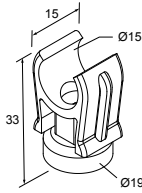
### LMBM12SP

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



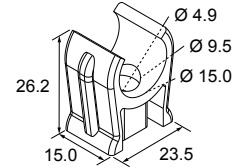
### LMBS15MAG

- 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



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