

S15L In-Line Sensor Status Indicator Datasheet



Features



- Bright indication of sensor power and output status
- Two colors - one for power and one for sensor output status
- Rugged overmolded design meets IP65, IP67, and IP68
- Connected directly to a sensor or anywhere in-line for easy visual indication
- Models available with PNP or NPN inputs

Models

4-Pin M12 Models

Models	Power ON (Color 1)	Input Active (Color 2)	Input Type	Connection
S15LGYQP	Green	Yellow	PNP	4-Pin Male/Female M12 quick disconnect
S15LGYNQ			NPN	
S15LGRPQ		Red	PNP	
S15LGRNQ			NPN	
S15LRGPQ	Red	Green	PNP	
S15LYGPQ	Yellow			

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	

Wiring

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)
		2	White	Not used; Passes through
		3	Blue	DC Common
		4	Black	Input from sensor: Color 2 overrides Color 1 when active

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

S15L Specifications

Supply Voltage

10 V DC to 30 V DC at 15 mA maximum

Leakage Current Immunity

400 µA

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Indicators

2 colors
Color 2 overrides Color 1

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



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

Environmental Rating

4-Pin M12 Models: IP65, IP67, IP68, UL Type 1
3-Pin M8 Models: IP67

Operating Conditions

4-Pin M12 Models: -40 °C to +40 °C (-40 °F to +104 °F)
3-Pin M8 Models: -40 °C to +70 °C (-40 °F to +158 °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 (A)	Supply Wiring (AWG)	Required Overcurrent Protection (A)
20	5.0	26	1.0
22	3.0	28	0.8

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Supply Wiring (AWG)	Required Overcurrent Protection (A)	Supply Wiring (AWG)	Required Overcurrent Protection (A)
24	1.0	30	0.5

Certifications



Banner Engineering BV
Park Lane, Culliganlaan 2F bus 3
1831 Diegem, BELGIUM



Turck Banner LTD Blenheim House
Blenheim Court
Wickford, Essex SS11 8YT
GREAT BRITAIN

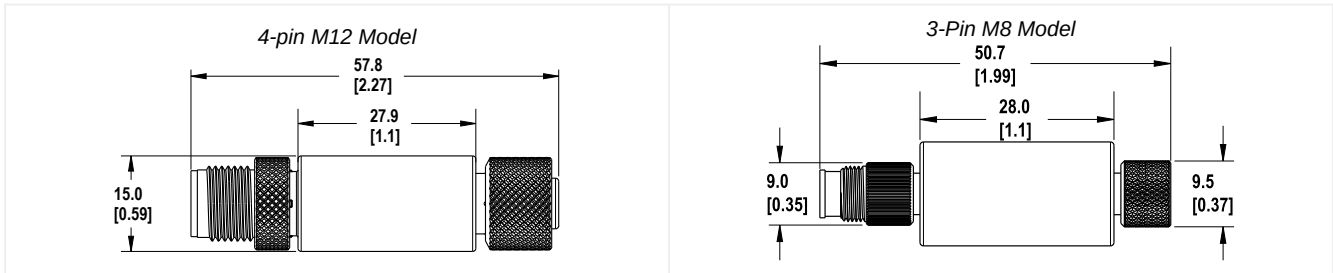


40 °C (104 °F) maximum operating temperature for applications requiring UL

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.

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)			

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4-Pin Threaded M12 Cordsets—Single Ended

Model	Length	Style	Dimensions	Pinout (Female)
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)			<p>1 = Brown 2 = White 3 = Blue 4 = Black</p>
MQDEC-430SS	9.14 m (30.2 ft)			
MQDEC-450SS	15.2 m (49.9 ft)			

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)			<p>1 = Brown 3 = Blue 4 = Black</p>

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

<p>LMBM12MAG</p> <ul style="list-style-type: none"> Attaches to M12 cordset end Black polypropylene 11.8 kg (26 lb) pull force One piece 	
<p>LMBM12SP</p> <ul style="list-style-type: none"> Attaches to M12 cordset end Black polypropylene Supplied with thread forming hardware Pack of seven 	
<p>LMBS15MAG</p> <ul style="list-style-type: none"> Attaches to S15 housing White polypropylene 11.8 kg (26 lb) pull force One piece 	
<p>LMBS15SP</p> <ul style="list-style-type: none"> Attaches to S15 housing White polypropylene Clearance for M5 or #10 hardware Pack of five 	

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Original Instructions

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