

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 over-molded 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

Table 1: 4-Pin M12 Models

Models	Power ON (Color 1)	Input Active (Color 2)	Input Type	Connection	
S15LGYPQ	Green	Yellow	PNP		
S15LGYNQ		1 Cilow	NPN		
S15LGRPQ		Red	PNP	4-Pin Male/Female M12 quick disconnect	
S15LGRNQ			NPN	4-1 III Male/I effale W12 quick disconnect	
S15LRGPQ	Red	Green	PNP		
S15LYGPQ	Yellow	Oleen			

Table 2: 3-Pin M8 Models

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

Wiring

Table 3: Wiring Diagram - 4-Pin M12 Models

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

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

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)
4~~	4~~	3	Blue	DC Common
1-3	31	4	Black	Input from Sensor: Color 2 overrides Color 1 when active

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

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
24	1.0	30	0.5

Certifications



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

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.



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

Dimensions

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

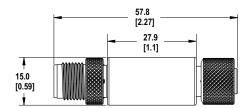


Figure 1: 4-pin M12 Model

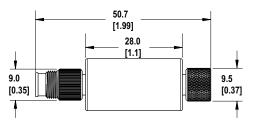
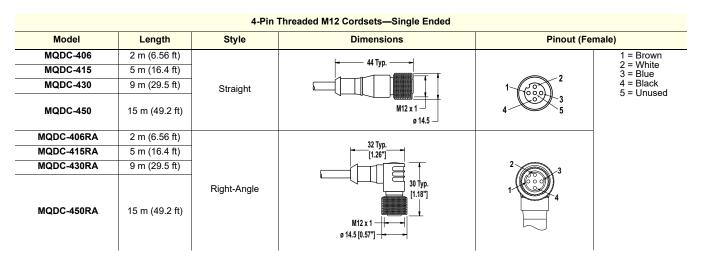


Figure 2: 3-Pin M8 Model

Accessories

Cordsets



	4-Pin Threaded M12 Cordsets—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)		_L 40 Тур,	2		
MQDEC-412SS	3.66 m (12 ft)	[1.58"]	1 (6.5)			
MQDEC-420SS	6.10 m (20 ft)			4		
MQDEC-430SS	9.14 m (30.2 ft)	Male	M12 x 1	Male		
MQDEC-450SS	15.2 m (49.9 ft)	Straight/Female Straight	0 14.5 [0.57"] 44 Typ. [1.73"] M12 x 1 0 14.5 [0.57"]	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)					
PKG3M-2-PSG3M	2 m (6.56 ft)		35 Typ. — + # # # # # # # # # # # # # # # # # #	4		
PKG3M-4-PSG3M	4 m (13.12 ft)			1		
PKG3M-9.0-PSG3M	9 m (29.53 ft)	Female Straight/Male Straight	M8 x 1 WU U U U U U U U U U U U U U U U U U U	Male 4 1 3 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-MQDCM4 10	0.15 m (0.49 ft)	Female Straight/Male Straight	35 mm max.	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-M8M3-24-0.1 6M	0.16 m (0.52 ft)	Male Straight/Female Straight	41.5 mm max.	1 = Brown 2 = No connection 3 = Blue 4 = Black	4 1 = Brown 3 = Blue 4 = Black		

Brackets

LMBM12MAG

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

LMBM12SP

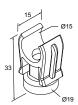
- Attaches to M12 cordset end
- Black polypropylene Supplied with thread forming hardware
- Pack of seven



LMBS15MAG

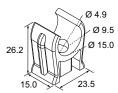
- Attaches to S15 housing White polypropylene 11.8 kg (26 lb) pull force

- One piece



LMBS15SP

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



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