

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		Yellow	PNP		
S15LGYNQ	- Green Red	renow	NPN		
S15LGRPQ		Red	PNP	4-Pin Male/Female M12 quick disconnect	
S15LGRNQ			NPN		
S15LRGPQ			PNP		
S15LYGPQ	Yellow	Green	FINE		

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	
S15LGRNM8Q3			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)
- 1		2	White	Not used; Passes through
2	$1 \sqrt{2}$	3	Blue	DC Common
3 4	4 00 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	3-00-1	4	Black	Input from Sensor: Color 2 overrides Color 1 when active

Specifications

Suppl	y١	/olt	age
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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

Required Overcurrent Protection

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)

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



Turck Banner LTD Blenheim House, Blenheim Court, Wickford, Essex SS11 8YT, Great Britain



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

Dimensions

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

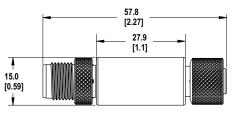
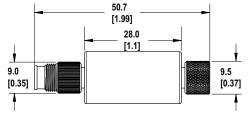


Figure 1: 4-pin M12 Model



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.

Figure 2: 3-Pin M8 Model

Accessories

Cordsets

Model	Length	Style	Dimensions	Pinout (Female)		
MQDC-406	2 m (6.56 ft)		- 44 Tun -		1 = Brown	
MQDC-415	5 m (16.4 ft)		44 Typ		2 = White 3 = Blue	
MQDC-430	9 m (29.5 ft)	Straight		1 2	4 = Black 5 = Unuse	
MQDC-450	15 m (49.2 ft)	5	M12 x 1 ø 14.5	4 5	0 - 011030	
MQDC-406RA	2 m (6.56 ft)		20 T			
MQDC-415RA	5 m (16.4 ft)		32 Typ [1.26"]			
MQDC-430RA	9 m (29.5 ft)	Right-Angle		2 3		
MQDC-450RA	15 m (49.2 ft)		Right-Angle	Right-Angle	30 Typ. [1.18"] ↓ ₩12 x 1 - + - + ₀ 14.5 [0.57"] + +	1

4-Pin Threaded M12 Cordsets—Single Ended

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)		L40 Typ	~ 2		
MQDEC-412SS	3.66 m (12 ft)		[1.58"]			
MQDEC-420SS	6.10 m (20 ft)			4 3		
MQDEC-430SS	9.14 m (30.2 ft)	Male		Male		
MQDEC-450SS	15.2 m (49.9 ft)	Straight/Female Straight		$2 + \frac{1}{3}$ $1 = Brown$ $2 = White$ $3 = Blue$ $4 = Black$		

	3-pin Inreaded 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)						
		Female	M8 x 1	Male			
		Straight/Male					
		Straight	42 Typ	4~~~			
PKG3M-9.0-PSG3M	9 m (29.53 ft)						
				1-0-3			

M8 x 1 –

ø 8.5 🗆

3-pin Threaded M8 Cordsets—Double Ended

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	40 mm max. 41 min. 41 min. 42 min. 40 mm max. 40 mm max. 41 min. 41 mi	4 3 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—Do	ouble Ended				

Model Length Style Dimensions Pinout (Female) Pinout (Male) ø 8.5 -M8 x 1 41.5 mm max. Male 0.16 m (0.52 Straight/Female Straight BC-M12F4-M8M3-24-0.1 ft) 6M 43.5 mm max. 1 = Brown 1 = Brown 3 = Blue 4 = Black 2 = No connection 3 = Blue 4 = Black ø 14.5 + - M12 x 1

Brackets

LMBM12MAG

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

LMBM12SP

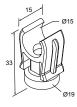
- Attaches to M12 cordset end •
- . Black polypropylene
- Supplied with thread forming hardware .
- . Pack of seven

LMBS15MAG

- Attaches to S15 housing White polypropylene 11.8 kg (26 lb) pull force ٠
- •
- ٠
- One piece

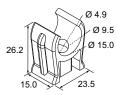






LMBS15SP

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



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Document title: S15L In-Line Sensor Status Indicator Datasheet Part number: 212217 Revision: K Original Instructions © Banner Engineering Corp. All rights reserved.

