

# S15L 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



# S15L Models

#### 4-Pin M12 Models

Models	Power ON (Color 1)	Input Active (Color 2)	Input Type	Connection	
S15LGYPQ		Yellow	PNP		
S15LGYNQ	Green		NPN		
S15LGRPQ		Red	PNP	4 Din Male/Famala M42 guide disconnect	
S15LGRNQ			NPN	4-Pin Male/Female M12 quick disconnect	
S15LRGPQ	Red	Green	PNP		
S15LYGPQ	Yellow	Gieen	PNP		

#### 3-Pin M8 Models

Models	Power ON (Color 1)	Input Active (Color 2)	Input Type	Connection
S15LGYPM8Q3	Green	Yellow	PNP	
S15LGYNM8Q3			NPN	2 Din Mala/Farrala MO midala diaggraph
S15LGRPM8Q3		Red	PNP	3-Pin Male/Female M8 quick disconnect
S15LGRNM8Q3			NPN	

# S15L Wiring

#### Wiring Diagram - 4-Pin M12 Models

Male	Female	Pin	Wire Color	Description <sup>(1)</sup>
2 4	1 600 3	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
1-3	3 - 1	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

### **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



<sup>&</sup>lt;sup>(1)</sup> Continuity between male and female connection for all four wires, including IO-link communications.

#### 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

#### **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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#### **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)

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Supply Wiring (AWG)	Viring Protection (A)		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

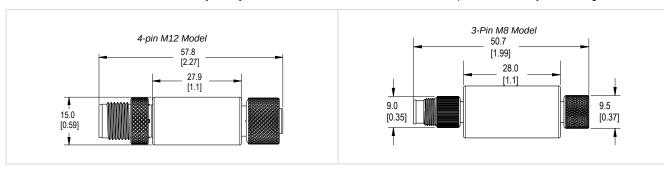


40 °C (104 °F) maximum operating temperature for applications requiring UL

**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.

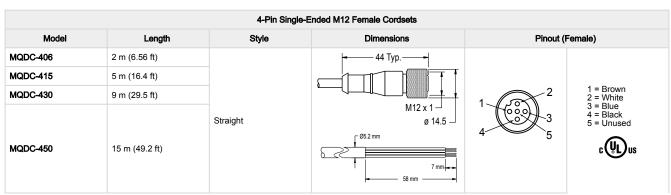
## S15L Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.



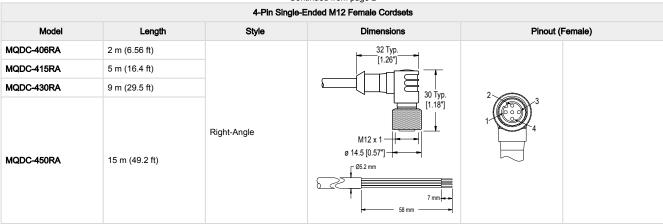
# Accessories

### Cordsets



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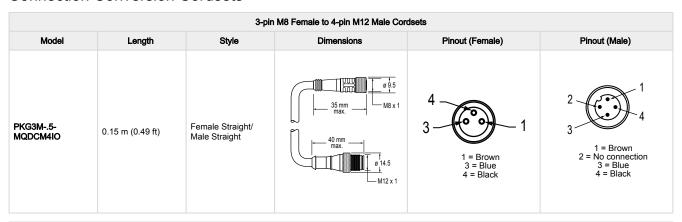
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4-Pin Double-Ended M12 Female to M12 Male Cordsets						
Model	Length	Style	Dimensions	Pinout		
MQDEC-401SS	0.31 m (1 ft)		40 Typ [1.58"]	Female		
MQDEC-403SS	0.91 m (2.99 ft)			1 2		
MQDEC-406SS	1.83 m (6 ft)			1 (0.0) 3		
MQDEC-412SS	3.66 m (12 ft)			4		
MQDEC-415SS	4.58 m (15 ft)		M12 x 1 -   0 14.5 [0.57"]			
MQDEC-420SS	6.10 m (20 ft)			Male 1		
MQDEC-430SS	9.14 m (30.2 ft)	Male Straight/Female Straight	44 Typ	2		
MQDEC-450SS	15.2 m (49.9 ft)		44 Typ. [1.73"]  M12 x 1  Ø 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)		35 Typ	4			
PKG3M-2-PSG3M	2 m (6.56 ft)		0.9.5	3 — 1			
PKG3M-4-PSG3M	4 m (13.12 ft)						
PKG3M-9.0-PSG3M	9 m (29.53 ft)	Female Straight/Male Straight	42 Typ.  42 Typ.  M8 x 1  M8 x 1	1 = Brown 3 = Blue 4 = Black			

# **Connection Conversion Cordsets**



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	41.5 mm max. M8 x 1	1 = Brown 2 = No connection 3 = Blue 4 = Black	1 = Brown 3 = Blue 4 = Black		

# **Brackets**

### LMBM12MAG

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

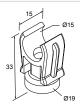
### LMBM12SP

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



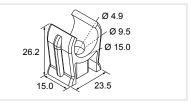
### LMBS15MAG

- 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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S15LGRNQ S15LGYPQ S15LRGPQ S15LYGPQ S15LGRPQ S15LGYNQ S15LGRNM8Q3 S15LGRPM8Q3 S15LGYPM8Q3 S15LGYPM8Q4