

# WL50S Stainless Steel High-Intensity Work Spot Light



## Datasheet

Chemically Resistant LED work lighting



- Three lens options, depending on model, to vary spot size
- Illuminates a large area with an even pattern of light and no shadows
- 12 to 30 V dc operation
- 56 mm (2.2 in) diameter with flat profile and 30 mm (1.2 in) mounting base
- Rugged, Viton® o-ring sealed housing rated to IP69K
- Chemically resistant 316 stainless steel housing for use in harsh environments
- FDA grade silicone gasket



### WARNING: Not To Be Used for Personnel Protection

Never use this device as a sensing device for personnel protection. Doing so could lead to serious injury or death. This device does not include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A sensor failure or malfunction can cause either an energized or de-energized sensor output condition.

## Models

| Model         | LED Color             | Window Material | Lumens | Lux   |      | Lens Angle (see <a href="#">Beam Patterns</a> on page 2) | Connection                                                                                                      |
|---------------|-----------------------|-----------------|--------|-------|------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
|               |                       |                 |        | 0.5 m | 1 m  |                                                          |                                                                                                                 |
| WL50SWSSL5Q   | White,<br>5000–8300 K | Polycarbonate   | 295    | 13780 | 3445 | ±5°                                                      | 5 pin Euro integral QD connector (use with a 4-wire or 5-wire mating cordset, only 2 wires used for connection) |
| WL50SWSSGL5Q  |                       | Glass           |        |       |      | small, more focused spot                                 |                                                                                                                 |
| WL50SWSSL11Q  |                       | Polycarbonate   | 285    | 5460  | 1365 | ±11°                                                     |                                                                                                                 |
| WL50SWSSGL11Q |                       | Glass           |        |       |      | larger spot                                              |                                                                                                                 |
| WL50SWSSL20Q  |                       | Polycarbonate   | 270    | 2000  | 500  | ±20°                                                     |                                                                                                                 |
| WL50SWSSGL20Q |                       | Glass           |        |       |      | largest spot                                             |                                                                                                                 |

## Specifications

### Supply Voltage and Current

Operating Voltage: 12 to 30 V dc  
Current Draw: 400 mA maximum

### Supply Protection Circuitry

Protected against reverse polarity and transient voltages

### Light Source

Three high-intensity LEDs; see models table for color temperature

### Useful Life

When operating within specifications, output will decrease less than 30% after 50,000 hours.

### Construction

316 stainless steel housing, polycarbonate or glass window with Viton seal, 316 stainless steel M30 mounting nut, FDA grade silicon base gasket

### Mounting

30 × 1.5 mm thread base mount

### Connections

Integral 5-pin M12 quick disconnect fitting; 4-pin connecting cordset required for quick disconnect fitting models; only 2 wires used

### Environmental Rating

IEC IEC IP67, IEC IP69K per DIN 40050-9



**NOTE:** Do not spray the cable with a high-pressure sprayer or cable damage will result.

### Operating Conditions

–20 °C to +50 °C (–4 °F to +122 °F)  
95% maximum relative humidity (non-condensing)

### Vibration and Mechanical Shock

All models meet Mil. Std. 202F requirements method 201A (vibration: 10 to 60 Hz max., double amplitude 0.06", maximum acceleration 10G). Also meets IEC 947-5-2; 30G 11 ms duration, half sine wave.

### Storage Temperature

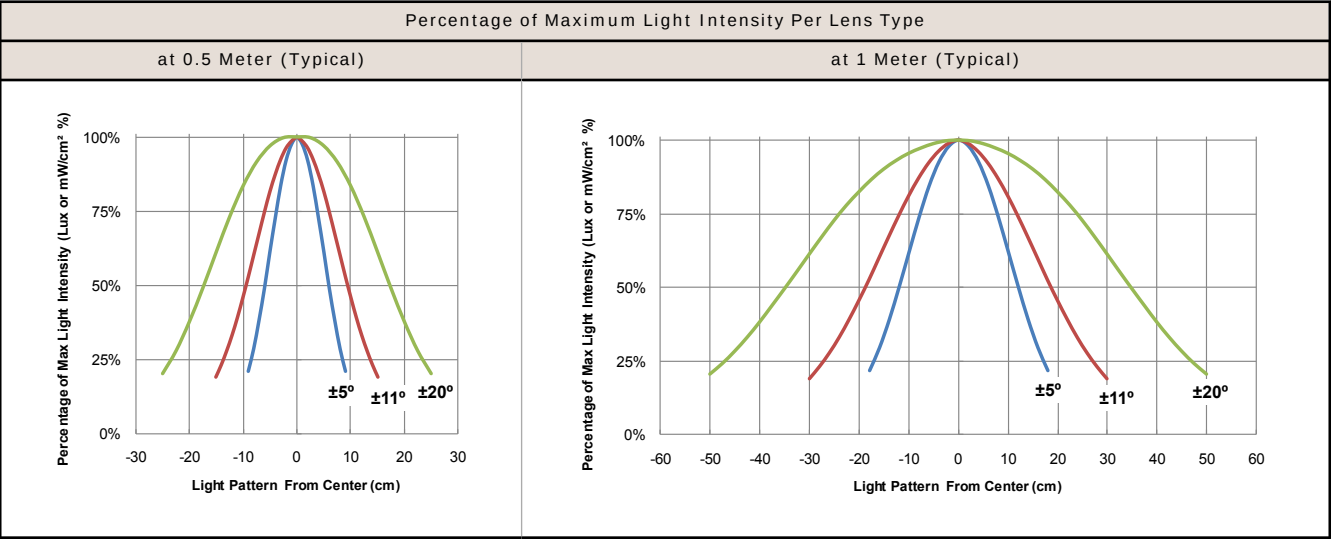
–40 °C to +70 °C (–40 °F to +158 °F)  
95% maximum relative humidity (non-condensing)

### Certifications

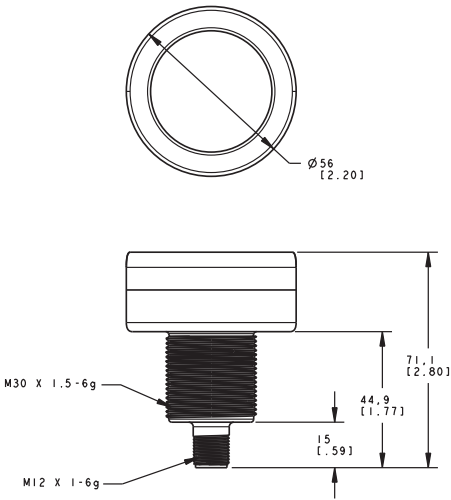
Approvals are pending



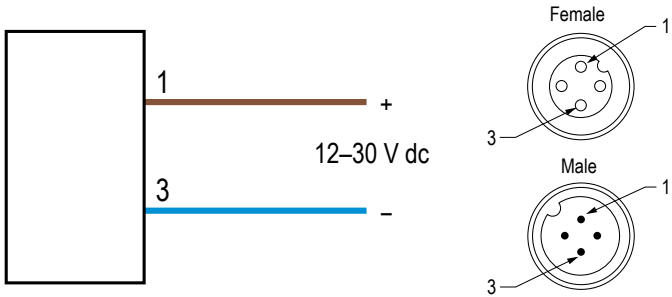
Beam Patterns



Dimensions



Wiring

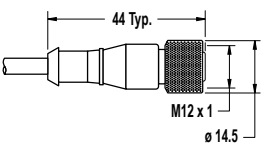
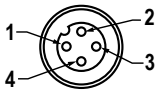
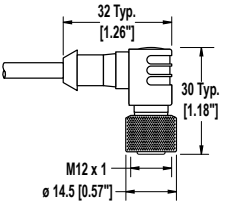


Wiring Key:  
1 = Brown  
3 = Blue

## Accessories

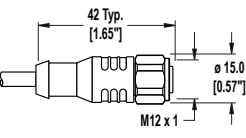
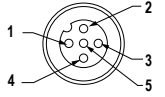
### Cordsets

#### Standard Cordsets

| 4-Pin Threaded M12/Euro-Style Cordsets |                |             |                                                                                                                                                                                                                                              |                                                                                     |
|----------------------------------------|----------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Model                                  | Length         | Style       | Dimensions                                                                                                                                                                                                                                   | Pinout (Female)                                                                     |
| MQDC-406                               | 1.83 m (6 ft)  | Straight    |                                                                                                                                                            |  |
| MQDC-415                               | 4.57 m (15 ft) |             |                                                                                                                                                                                                                                              |                                                                                     |
| MQDC-430                               | 9.14 m (30 ft) |             |                                                                                                                                                                                                                                              |                                                                                     |
| MQDC-450                               | 15.2 m (50 ft) |             |                                                                                                                                                                                                                                              |                                                                                     |
| MQDC-406RA                             | 1.83 m (6 ft)  | Right-Angle |  | <p>1 = Brown<br/>2 = White<br/>3 = Blue<br/>4 = Black</p>                           |
| MQDC-415RA                             | 4.57 m (15 ft) |             |                                                                                                                                                                                                                                              |                                                                                     |
| MQDC-430RA                             | 9.14 m (30 ft) |             |                                                                                                                                                                                                                                              |                                                                                     |
| MQDC-450RA                             | 15.2 m (50 ft) |             |                                                                                                                                                                                                                                              |                                                                                     |

#### Washdown Rated Cordsets

Polypropylene jacket and connector body, stainless steel coupling nut

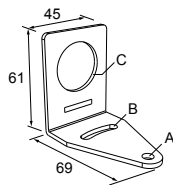
| 5-Pin Threaded M12/Euro-Style Cordsets—Washdown, with Shield |                |          |                                                                                                                                                                                                     |                                                                                       |
|--------------------------------------------------------------|----------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Model                                                        | Length         | Style    | Dimensions                                                                                                                                                                                          | Pinout (Female)                                                                       |
| MQDCWD-506                                                   | 1.83 m (6 ft)  | Straight |  |  |
| MQDCWD-530                                                   | 9.14 m (30 ft) |          |                                                                                                                                                                                                     |                                                                                       |

### Mounting Brackets

All measurements are in mm

#### SMB30A

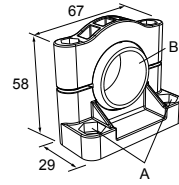
- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor
- 12-ga. stainless steel



Hole center spacing: A to B=40  
Hole size: A=ø 6.3, B= 27.1 x 6.3, C=ø 30.5

#### SMB30SC

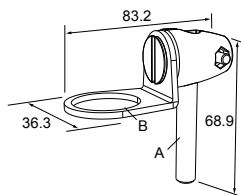
- Swivel bracket with 30 mm mounting hole for sensor
- Black reinforced thermoplastic polyester
- Stainless steel mounting and swivel locking hardware included



Hole center spacing: A=ø 50.8  
Hole size: A=ø 7.0, B=ø 30.0

**SMB30FA**

- Swivel bracket with tilt and pan movement for precise adjustment
- Mounting hole for 30 mm sensor
- 12-ga. 304 stainless steel
- Easy sensor mounting to extrude rail T-slot
- Metric and inch size bolt available

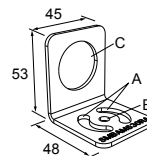


Bolt thread: SMB30FA, A= 3/8 - 16 x 2 in; SMB30FAM10, A= M10 - 1.5 x 50

Hole size: B=  $\varnothing$  30.1

**SMBAMS30RA**

- Right-angle SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90°+ rotation
- 12-ga. (2.6 mm) cold-rolled steel

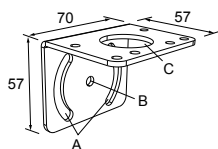


Hole center spacing: A=26.0, A to B=13.0

Hole size: A=26.8 x 7.0, B= $\varnothing$  6.5, C= $\varnothing$  31.0

**SMB30MM**

- 12-ga. stainless steel bracket with curved mounting slots for versatile orientation
- Clearance for M6 (1/4 in) hardware
- Mounting hole for 30 mm sensor

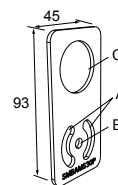


Hole center spacing: A = 51, A to B = 25.4

Hole size: A = 42.6 x 7, B =  $\varnothing$  6.4, C =  $\varnothing$  30.1

**SMBAMS30P**

- Flat SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90°+ rotation
- 12-ga. 300 series stainless steel



Hole center spacing: A=26.0, A to B=13.0

Hole size: A=26.8 x 7.0, B= $\varnothing$  6.5, C= $\varnothing$  31.0

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