

# 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, 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

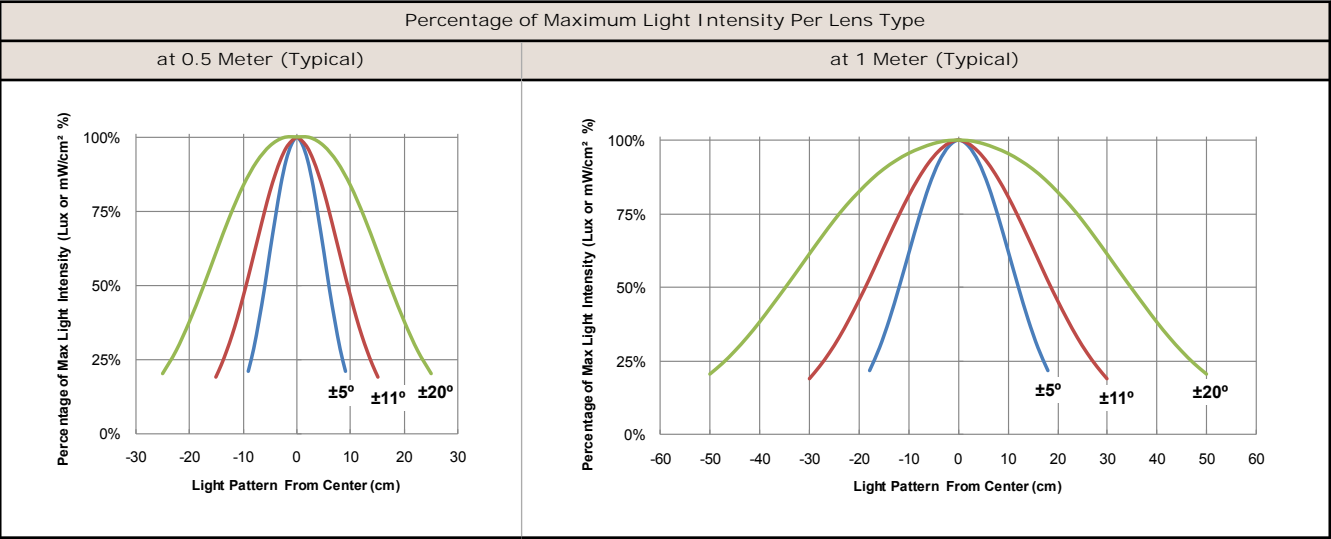
–40 °C to +70 °C (–40 °F to +158 °F)  
95% maximum relative humidity (non-condensing)

### Certifications

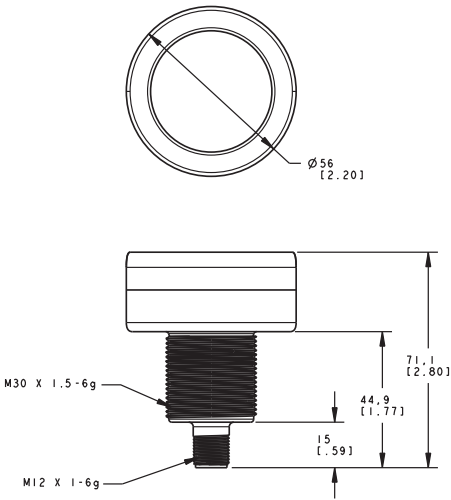
Approvals are pending



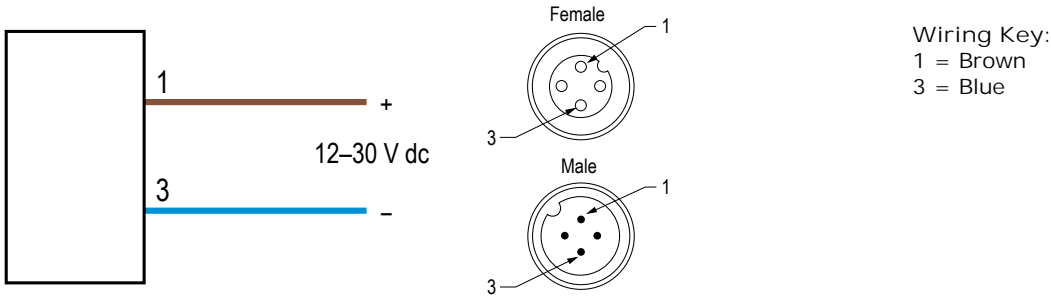
Beam Patterns



Dimensions



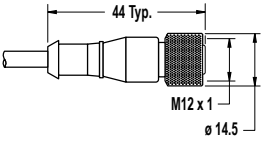
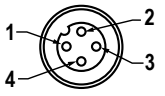
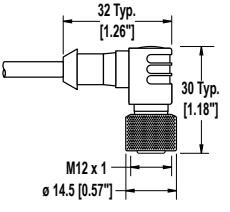
Wiring



## Accessories

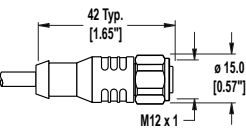
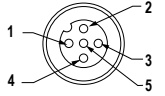
### Cordsets

#### 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 2 = White 3 = Blue 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

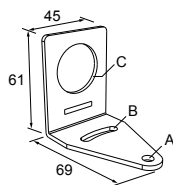
5-Pin Threaded M12/Euro-Style Cordsets—Washdown, with Shield				
Model	Length	Style	Dimensions	Pinout (Female)
MQDCWD-506	1.83 m (6 ft)	Straight		 <p>1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray</p>
MQDCWD-530	9.14 m (30 ft)			

### Mounting Brackets

All measurements are in mm

#### SMB30A

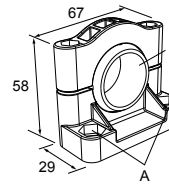
- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor
- 12-ga. stainless steel



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

#### SMB30SC

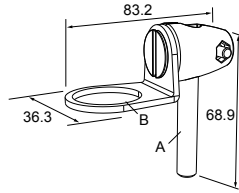
- Swivel bracket with 30 mm mounting hole for sensor
- Black reinforced thermoplastic polyester
- Stainless steel mounting and swivel locking hardware included



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

**SMB30FA**

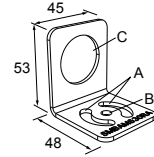
- Swivel bracket with tilt and pan movement for precise adjustment
- Mounting hole for 30 mm sensor
- 12-ga. 304 stainless steel
- Easy sensor mounting to extrude rail T-slot
- Metric and inch size bolt available



Bolt thread: SMB30FA, A= 3/8 - 16 x 2 in; SMB30FAM10, A= M10 - 1.5 x 50  
Hole size: B=  $\varnothing$  30.1

**SMBAMS30RA**

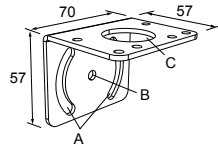
- Right-angle SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90° + rotation
- 12-ga. (2.6 mm) cold-rolled steel



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**

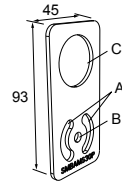
- 12-ga. stainless steel bracket with curved mounting slots for versatile orientation
- Clearance for M6 (1/4 in) hardware
- Mounting hole for 30 mm sensor



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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