

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 30V 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 Beam Patterns 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 30V dc
Current Draw: 400 mA max.

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

30x1.5 mm thread base mount

Connections

Integral 5-pin M12/Euro style QD; 4-pin connecting cordset required for QD models; only 2 wires used

Environmental Rating

IEC IP67, IP69K per DIN 40050-9



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

Operating Conditions

-20° to +50°C (-4° to +122°F)
95% max. 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.

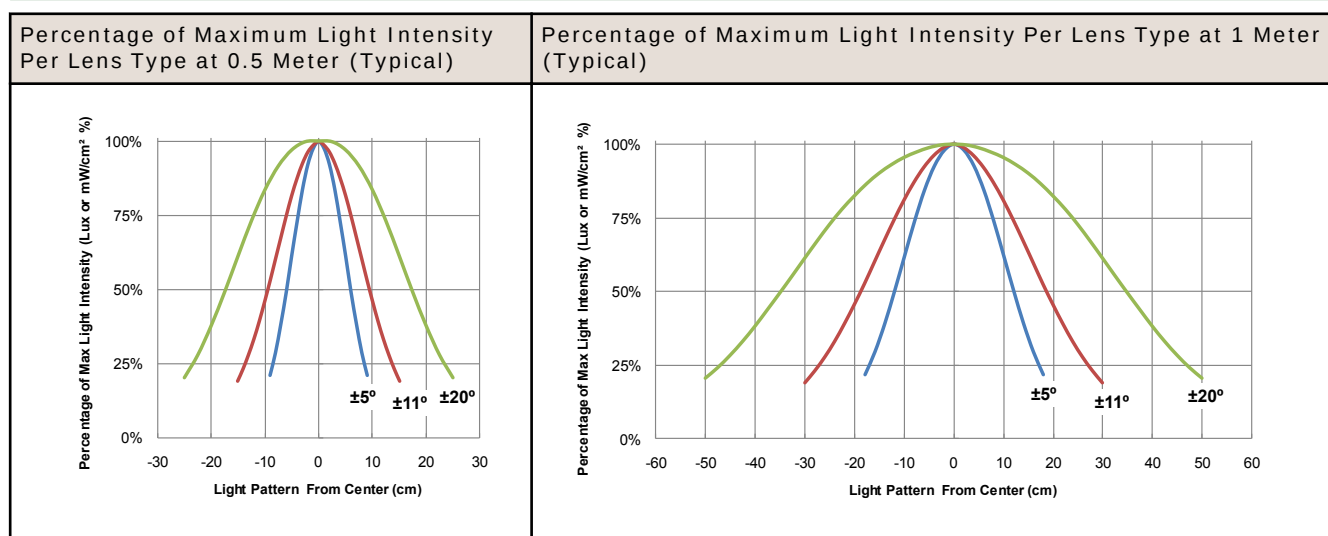
Storage Temperature

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

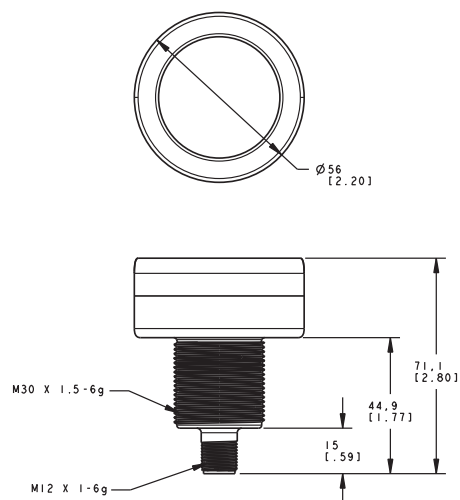
Certifications

Approvals are pending

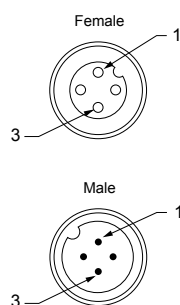
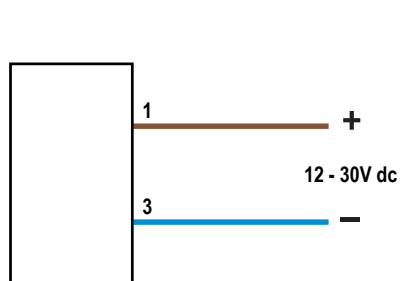
Beam Patterns



Dimensions



Wiring

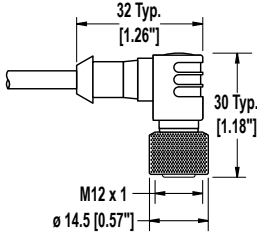


Wiring Key:
1 = Brown
3 = Blue

Cordsets

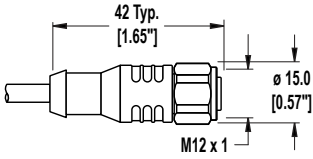
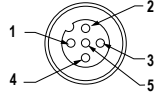
Standard Cordsets

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

4-Pin Threaded M12/Euro-Style Cordsets				
Model	Length	Style	Dimensions	Pinout
MQDC-406RA	1.83 m (6 ft)	Right-Angle		
MQDC-415RA	4.57 m (15 ft)			
MQDC-430RA	9.14 m (30 ft)			
MQDC-450RA	15.2 m (50 ft)			

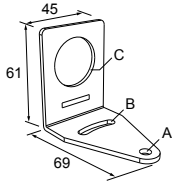
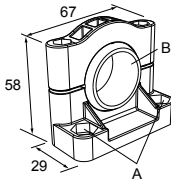
Washdown Rated Cordsets

Polypropylene jacket and connector body, stainless steel coupling nut

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

Mounting Brackets

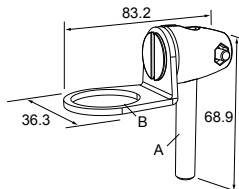
All measurements are in mm

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 
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SMB30FA

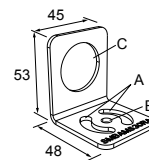
- Swivel bracket with tilt and pan movement for precise adjustment
- Mounting hole for 30 mm sensor
- 12-ga. 304 stainless steel
- Easy sensor mounting to extrude rail T-slot
- Metric and inch size bolt available

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

**SMBAMS30RA**

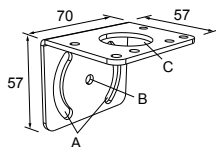
- Right-angle SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90°+ rotation
- 12-ga. (2.6 mm) cold-rolled steel

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**

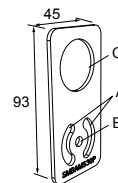
- 12-ga. stainless steel bracket with curved mounting slots for versatile orientation
- Clearance for M6 (1/4 in) hardware
- Mounting hole for 30 mm sensor

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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