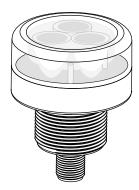
# WL50S High-Intensity Spot Light - PWM Dimmable



## Datasheet

General-purpose LED work lighting



- Intensity can be controlled from 0 to 100% using Pulse Width Modulation (PWM) on an input control wire
- 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
- Cabled and quick-disconnect models available
- 50 mm diameter with flat profile and 30 mm mounting base
- Rugged sealed housing rated to IP69K



For PWM dimming, use with the LC65 Dimmer Module. For more information, refer to the LC65 LED Dimmer Module datasheet, p/n 177086.

Model <sup>1</sup>	LED Color	Lumens	Lux		Lens Angle	Connection
			0.5 m	1 m		
WL50SWL5PWMQ	White, 5000-8300 K	295	13780	3445	±5° (smaller, more focused spot; see graph)	5-pin Euro-style integral QD
WL50SWL11PWMQ	White, 5000-8300 K	285	5460	1365	±11° (larger spot; see graph)	connector (use with a 4-wire mating cordset; only 3 wires used for connection)
WL50SWL20PWMQ	White, 5000-8300 K	270	2000	500	±20° (largest spot; see graph)	



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.

<sup>1</sup> Integral QD models only are listed. To order the integral 2 m (6.5 ft) PVC cable models, omit the suffix Q from model number (example, WL50SWL5PWM). A model with a QD requires a mating cordset.



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# Specifications

Supply Voltage and Current

Operating voltage: 12 to 30 V dc Current draw: 400 mA maximum

Pulse Width Modulation (PWM)

Frequency: Up to 40 kHz Voltage: 5 V to 30 V dc Current: 15 mA max

Supply Protection Circuitry Protected against reverse polarity and transient voltages

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

Useful Life

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

Black anodized aluminum housing; polycarbonate window; nickelplated QD connector or PVC-jacketed cable; black zinc-plated steel mounting nut

Mounting:

 $30 \times 1.5$  mm thread base mount

Connections

Integral 5-pin M12 quick disconnect fitting or 2 m (6.5 ft) integral cable, depending on model; 4-pin connecting cordset required for quick disconnect fitting 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 °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)

Certifications

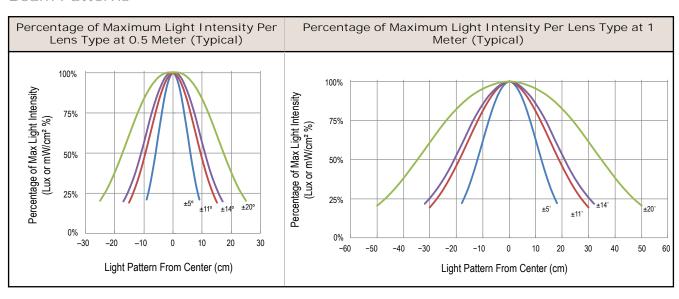




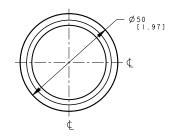


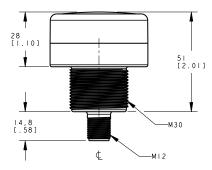
UL Recognized for easy installation in control cabinets

#### Beam Patterns



## Dimensions





# Wiring



For maximum intensity, leave the white and black wires floating or connected to common.

# Accessories

# 4-Pin Euro-Style Cordsets

4-Pin Threaded M12/Euro-Style Cordsets							
Model	Length	Style	Dimensions	Pinout (Female)			
MQDC-406	1.83 m (6 ft)		├ <del>-</del> 44 Typ. ———	1- (00) 2			
MQDC-415	4.57 m (15 ft)						
MQDC-430	9.14 m (30 ft)						
MQDC-450	15.2 m (50 ft)	Straight	M12 x 1 — 6 14.5 —	1 = Brown 2 = White 3 = Blue 4 = Black			

4-Pin Threaded M12/Euro-Style Cordsets							
Model	Length	Style Dimensions		Pinout (Female)			
MQDC-406RA	1.83 m (6 ft)		, 32 Тур.				
MQDC-415RA	4.57 m (15 ft)		(1.26") 30 Typ. [1.18"] 0 14.5 [0.57"]				
MQDC-430RA	9.14 m (30 ft)						
MQDC-450RA	15.2 m (50 ft)	Right-Angle					

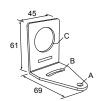
## Mounting Brackets

#### 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

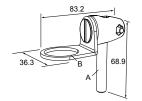
- Swivel bracket with 30 mm mounting hole for sensor
- Black reinforced thermoplastic polyester
- Stainless steel mounting and swivel locking hardware included

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= ø 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

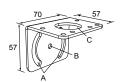
Hole center spacing: A=26.0, A to B=13.0 Hole size: A=26.8 x 7.0, B= $\emptyset$  6.5, C= $\emptyset$  31.0



## SMB30MM

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

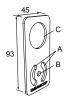
Hole center spacing: A = 51, A to B = 25.4 Hole size: A =  $42.6 \times 7$ , B =  $\emptyset$  6.4, C =  $\emptyset$  30.1



## 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= $\emptyset$  6.5, C= $\emptyset$  31.0



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