

# Q-LED

## Underwater LED Floodlight



**Operates off of standard 120 or 240 volt  
AC power**

**Zero-maintenance construction**

**Light output equivalent to a 250 watt  
halogen floodlight**

**Extremely resistant to shock & vibration**



### **The world's first compact zero-maintenance AC-powered underwater LED floodlight**

The new Q-LED underwater floodlight is powered by AC voltage. That means that the traditional halogen lights on your vehicle or other application can be "plug and play" replaced with Q-LEDs. It has an identical form factor and matching mounting pattern to the QL-3000 light, the ROS industry standard that has illuminated the depths of the ocean for over three decades. The ultra-efficient Q-LED's light output exceeds that of a 250 watt halogen light, yet it draws less than half that amount of power.

Regardless of duty cycle, the first recommended maintenance for the hassle-free Q-LED is at the 5-year mark, when it is recommended that its two O-rings be replaced. After that, the light can go right back underwater.

The Q-LED is certified submersible to 4,000 meters, and operates off of either 120 volt or 240 volt AC power. It has built-in thermal protection that de-powers the light before accidental use in air causes any damage; the light will automatically re-power once the temperature has returned to a normal level.

The innovative Q-LED is the light that is bringing solid state lighting technology into the mainstream ROV world. Don't get left in the dark -- replace all your old halogen lights with Q-LEDs today.

*ROS has been manufacturing an array of harsh environment cameras, lights, positioners, and specialized systems designed for oceanographic nuclear, industrial, and military applications for over 30 years.*

# Q-LED - Underwater LED Floodlight

## PERFORMANCE

Lamp Type:	Ultra High-intensity White LED Array
Light Color Temperature:	5,500° K (typical)
Dimming:	Light is dimmed via input voltage
Thermal Protection:	Auto-resetting <sup>(1)</sup>
Light Output:	Equivalent to a 250 Watt halogen lamp. 3040 Lumens (all output is directed within forward beam pattern) 870 Lux @ 1m (in air)
Beam Angle:	80° x 80° flood

## ELECTRICAL

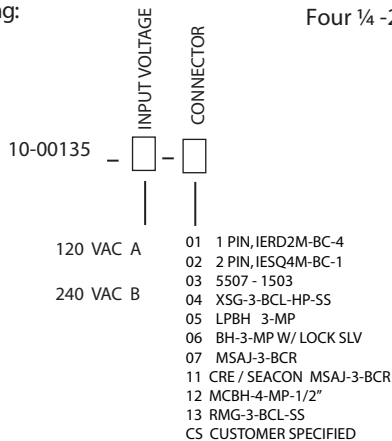
Input Voltage:	120VAC/60Hz or 240VAC/50Hz <sup>(2)</sup>
Power Consumption:	120 Watt maximum

## MECHANICAL

Housing Material:	Anodized 6061-T6 Aluminum
Housing Finish:	White powder coated enamel finish
Size (w/o connector):	158mm (H) x 63.5mm (W) x 63.5mm (D); 6.19in (H) x 2.5in (W) x 2.5in (D)

## ENVIRONMENTAL

Weight in Air:	1.19 kg (2.6 lbs)
Weight in Water:	0.54 kg (1.2 lbs)
Operating Depth:	4,000 m (13,123 ft)
Operating Temperature:	Operates in water temperatures of -2 to 30°C (28°F to 86°F)
Mounting:	Four ¼ -20 tapped holes in base on 2.0 in mounting centers

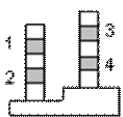


## NOTES

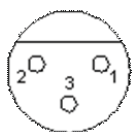
<sup>(1)</sup> Unit is thermally protected for unintentional use in an air environment. Unit will run approximately 3 minutes in air (at ambient temperature of 20°C (68°F)) before automatically powering down. No reset is then necessary; the light will automatically re-illuminate once it cools down.

<sup>(2)</sup> It is recommended that the video format be matched with the AC frequency to avoid flickering. Otherwise, the Q-LED II should be used.

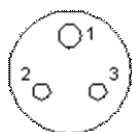
Specifications subject to change without notice



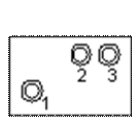
IESQ4M-BC-1  
ROS# 60-04020-4  
1 = Power  
2 = Ground  
3 = Power (return)  
4 = Ground



IE-55-1503-BCR/  
5507-1503  
ROS# 60-04016-4  
1 = Power  
2 = Power (return)  
3 = Ground



XSG-3BCL-HP-SS  
ROS# 60-01122-4  
1 = Ground  
2 = Power  
3 = Power (return)



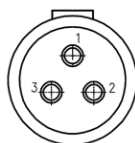
LPBH-3-MP  
ROS# 60-01010-4  
1 = Power  
2 = Power (return)  
3 = Ground



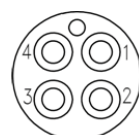
BH-3-MP W/LOCK  
SLEEVE  
ROS# 60-04080-4  
1 = Ground  
2 = Power  
3 = Power (return)



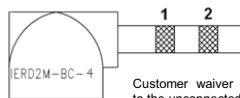
MSAJ-3-BCR /  
RMG-3-BCL-SS  
ROS# 60-01059-4  
1 = Ground  
2 = Power  
3 = Power (return)



CRE/SEACON-  
MSAJ-3-BCR  
ROS# 60-01146-4  
1 = Ground  
2 = Power  
3 = Power (return)



MCBH-4-MP-1/2"  
ROS# 60-01003-4  
1 = Ground  
2 = Power  
3 = Power (return)  
4 = N/C



IERD2M-BC-4  
ROS# 60-04010-4  
1 = Power  
2 = Power (return)

Customer waiver required due to the unconnected ground



Certificate Number: 160263  
BS EN ISO 9001 : 2000

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