

# QL98 series

Water and Vibration LED Work Lights with IP67/ IP68K Protection



## Water / Dust proof high brightness LED work light that resists against severe storm and heavily dusty environment



### Common Specifications(QL98 series)

- Water / Dust proof LED work light that resists against severe storm and heavily dusty environment
- IP67/ IP68 protection rating, waterproof & dust resistant model that can be used where dusty and flooded area
- Polycarbonate lens allows excellent vibration and impact resistance.
- Long lifetime with a high intensity LED light source allows for easy maintenance
- Excellent durability that is suitable for harsh environment such as an excavator, crane, and off-road vehicle
- Materials : Housing: Al, Lens : PC
- Certificates : CE



### Test Conditions/ Regulations

Vibration Resistance Test	<ul style="list-style-type: none"> <li>• Acceleration : 20m/s<sup>2</sup></li> <li>• Duration : 1 octave/min</li> <li>• Range of frequency : 10-150Hz</li> <li>• Amplitude : 10 times maximum 7.5mm, direction : test 10times in 3 directions(X, Y, Z)</li> </ul>
Shock Resistance Test	<ul style="list-style-type: none"> <li>• Acceleration : 20g</li> <li>• Directions : ±X, ±Y, ±Z</li> <li>• Numbers : 3 times each directions</li> <li>• Time period : 11ms for each direction</li> <li>• Waveform : Half sine</li> </ul>
Solid Particle Protection Test(IP6X)	<ul style="list-style-type: none"> <li>• After reducing the pressure inside the test object, spray talcum powder with a nominal diameter of 50um for 2 hours at 40-60meters/hour inside the dust chamber.</li> <li>• IEC60529</li> </ul>
Liquid Ingress Protection Test(IPX7)	<ul style="list-style-type: none"> <li>• Test ingress by putting the object under 1000mm water with 2bar of pressure for 30 mins</li> </ul>
Liquid Ingress Protection Test(IPX8)	<ul style="list-style-type: none"> <li>• Much more strict than IPX7 protection rating and there must be an agreement between manufacturer and customer</li> </ul>

# QL9820 series

Water and Vibration LED Work Lights with IP67/IP68 Protection



**QL9820-39**



**QL9820B-8**



**QL9820S-2**



**Common Specifications**

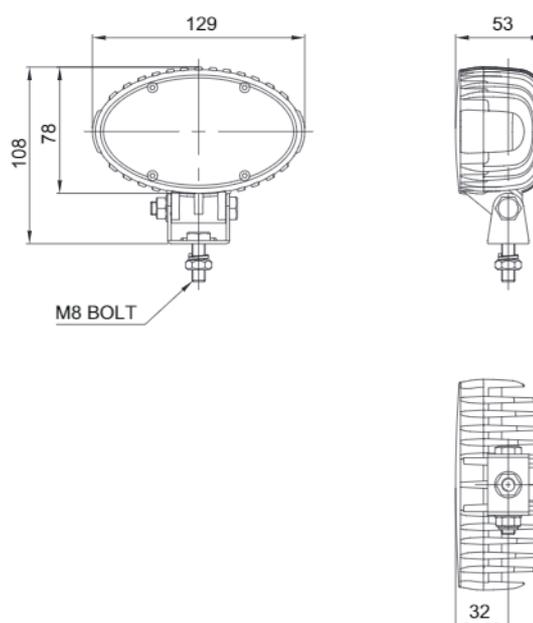
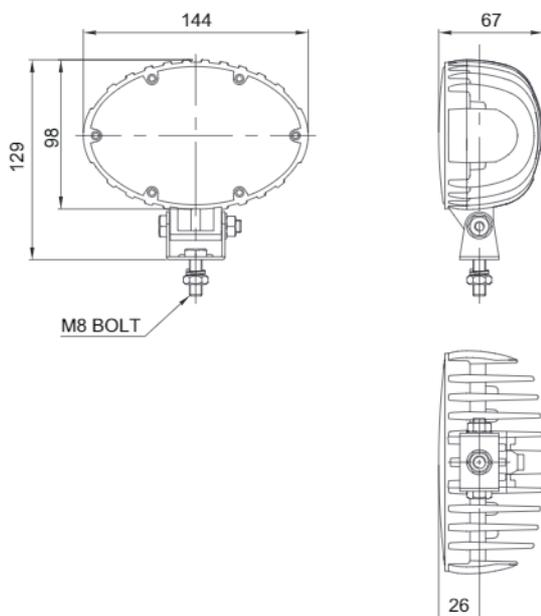
Optics Specifications			
Model	QL9820-39	QL9820B-8	QL9820S-2
Lens color		Translucent	
Light color		Cooldaylight	
Color temperature		6,000-7,000K	
Luminous flux	2,506lm	1,338lm	1,156lm
Specifications			
Model	QL9820-39	QL9820B-8	QL9820S-2
Voltage		DC12V-24V	
Range for operation voltage		DC11.5V-26.5V	
Power consumption	30W	20W	11W
Insulation resistance	Min. 50MΩ(500V DC mega ohm meter)		
Withstanding voltage	DC : 500V AC, 60Hz, 1 minute		
Operating temperature	-40°C to +65°C		
Protection rating	IP68	IP67	IP67
Materials	Housing: Al, Lens : PC		
Certificate	CE		
Weight(Approx.)	0.80kg	0.65kg	0.30kg

**Technical Diagram**

(Units : mm)

QL9820-39

QL9820B-8

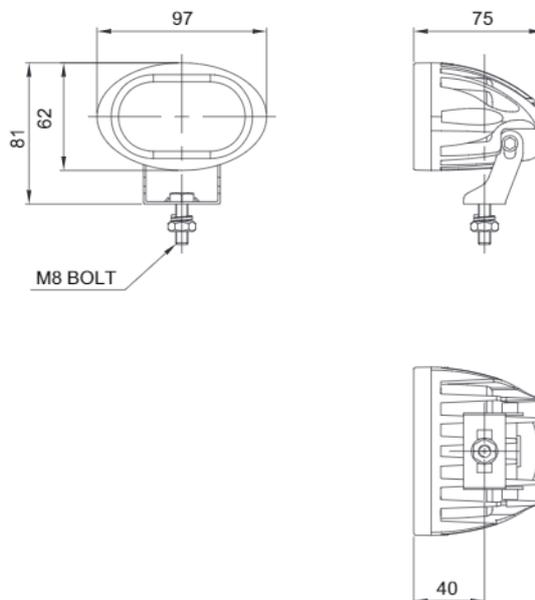




### Technical Diagram

(Units : mm)

QL9820S-2



### Ordering Specification

**QL9820-39**

[Model number]

- QL9820-39
- QL9820B-8
- QL9820S-2

**12/24**

[Voltage]

- 12/24-DC12V-24V



Please read user manual carefully prior to operation to ensure safe and correct use. Failure to follow safety instructions may lead to electric shock because of fire and short circuit. Specification and dimensions listed in this catalogue subject to change without notice for product quality improvement. The newest product information is available on our website.