

Water, Vibration and Oil Resistant LED Work Lights with IP67/ IP69K Protection

QMFLN

Suitable for machine tool equipment that needs excellent water and oil proof features

PRODUCT SPECIFICATION

QMFLN

Materials Housing-Al, Lens-Tempered glass
Bracket-SPC-1

Ambient operating temperature -30°C to +60°C

Protection rating IP67, IP69K

Certificates CE, UL



QMFLN

- Special sealing structure provides excellent oil resistance, suitable for environments with high temperature cutting oil
- Suitable for high pressure and high temperature water cleaning environments(IP69K)
- Tempered glass prevents damage from machine tool chips
- Bracket included has tilt adjustment with angle of 120°
- Can select from variety of body length of 200/ 300/ 400/ 500/ 600mm to fit your application needs
- Can choose anti-glare lens type depending on work environment needs
- High-intensity type available upon request(Model number: QMFHLN)
- Wired type and M12 connector type allow for a customized model that M12 connector can be attached at the end of wires.

Structural Features

Special sealing structure features superior oil resistance

Prevents components from moving in the sealed body due to warpage from high temperature over a period of time

Chemically Tempered Glass

Prevents shock damage from machine tool chips

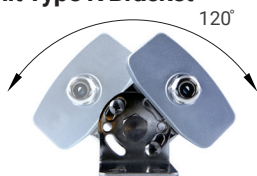
Special Micro Lens

Provides high luminance with superior light focusing capability, suitable for work environments that need long distance direct visibility

Aluminum Heat-Radiant Housing

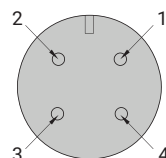
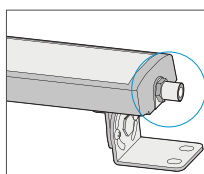
Adopted special heat-radiant structure to provide stable luminance in high temperature sealed environment

Tilt Type K Bracket



The standard bracket included enables tilt adjustment with angle of 120°

M12 connector equipped



PIN	DESCRIPTION
1	DC (-)
2	N/A
3	DC (+)
4	N/A

Test Conditions/Regulations

Vibration Resistance Test	<ul style="list-style-type: none">• Acceleration: 20m/s²• Duration: 1 octave/min• Range of frequency: 10-150Hz• Amplitude: Maximum 7.5mm, Direction: tested 10times each 3 directions(X, Y, Z)
Shock Resistance Test	<ul style="list-style-type: none">• Acceleration: 20g• Directions: ±X, ±Y, ±Z• Numbers: 3 times each directions• Time period: 11ms for each direction• Waveform: Half Sine
Oil Resistance Test	<ul style="list-style-type: none">• General test: Tested in water soluble and non-water soluble flooded environments for 500 hours.• High temperature oil resistance test: Place the object in a constant temperature water bath at 80°C for two hours and then submerge the object in the room temperature oil diluent for 24hours.
Solid Particle Protection Test(IP6X)	<ul style="list-style-type: none">• 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.• IEC60529
Liquid Ingress Protection Test(IPX7)	<ul style="list-style-type: none">• Test ingress by putting the object under 1000mm water with 2bar of pressure for 30 mins
High-pressure, High-temperature Wash-down Test (IP69K)	<ul style="list-style-type: none">• Spray nozzle provides 80°C water with pressure of 80–100 bar and a flow rate of 14–16 L/min to the object• Distance between spray nozzle and the test object: 10-15cm• Water spray angle: 0°, 30°, 60°, 90°• The nozzle is held at 4 of each angle for 30 seconds• DIN 40050 PART9

