

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



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

Common Specifications

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- 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
- Can customize the product with the M12 connector if requested
- High-intensity type available upon request (Model number : QMFHLN)
- Certificates : CE Compliant, UL Listed



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

Aluminum Heat-Radiant Housing

sealed environment

Adopted special heat-radiant structure to

provide stable luminance in high temperature

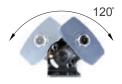
Special Micro Lens -

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

Test Conditions/ Regulations



Tilt Type K Bracket



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

Cable entry M12 connector attached type



Customized Cable entry M12 connector attached type available.

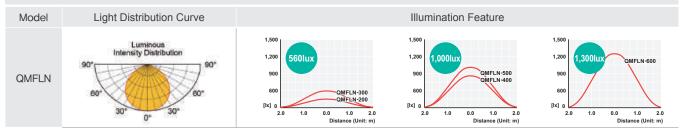
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Vibration Resistance Test	 Acceleration : 20m/s² Duration : 1 octave/min Range of frequency : 10-150Hz Amplitude : Maximum 7.5mm, Direction : tested 10times each 3 directions(X, Y, Z)
Shock Resistance Test	 Acceleration : 20g Directions : ±X, ±Y, ±Z Numbers : 3 times each directions Time period : 11ms for each direction Waveform : Half sine
Oil Resistance Test	 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)	 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)	Test ingress by putting the object under 1000mm water with 2bar of pressure for 30 mins
High-pressure, High-temperature Wash-down Test (IP69K)	 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

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Light Distribution and Illuminance

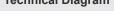
QMFLN



Optics Specifications

Model		QMFLN-200	QMFLN-300	QMFLN-400	QMFLN-500	QMFLN-600	
Lens color	(Blank)	Transparent	Transparent	Transparent	Transparent	Transparent	
	TLC	Translucent	Translucent	Translucent	Translucent	Translucent	
Light color		Cooldaylight					
Color temperature		6,000-7,000K					
Luminous flux	(Blank)	359lm	851lm	1,284lm	1,553lm	1,719lm	
	TLC	306lm	730lm	1,109lm	1,394lm	1,532lm	
Efficacy (Im/W)	(Blank)	240lux	560lux	850lux	1,000lux	1,300lux	
	TLC	160lux	370lux	580lux	750lux	1,050lux	
Specifications							
Model		QMFLN-200	QMFLN-300	QMFLN-400	QMFLN-500	QMFLN-600	
Voltage		DC24V					
Range for operation	ion voltage DC22V-30V						
Power consumption		5.6W	12.5W	20W	20W	25W	
Power consumpt	ion	Min. 100MΩ(500V DC mega ohm meter)					
Withstanding voltage 500V AC, 60Hz, 1 minute		e					
Operation tempe	-30°C to +60°C						
Protection rating				IP67/ IP69K			
Materials		Housing: Al, Lens : Tempered glass, Bracket : Spc-1					
Certificates Certificates Certificates			Only				
Weight (Approx.)		0.57kg	0.80kg	1.03kg	1.26kg	1.49kg	

Technical Diagram



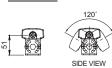
QMFLN-200/ 300/ 400/ 500/ 600

R 3.5

(Units : mm)



L2 PCD L1



FITTING HOLES

MODEL	L1	PCD	L2
QMFLN - 200	190	210	230
QMFLN - 300	290	310	330
QMFLN - 400	400	420	440
QMFLN - 500	500	520	540
QMFLN - 600	600	620	640

* External power line - Dura & Flex-F VU(0.5sq) x 2C 450mm



ООО "РусАвтоматизация"

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