

Half Circle Low Angle Ring Light

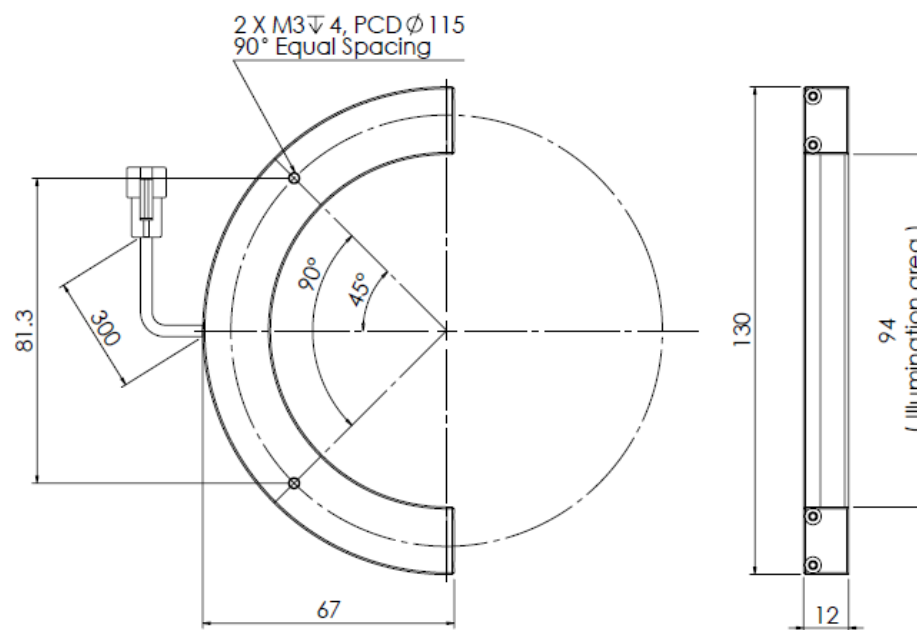


FLDR-Si130LA1-HC180

Lighting Picture



Lighting Dimension



Unit in mm

Mechanical Information

Casing Material	Aluminium
Weight	90g
Operating Temperature	0°C to 40°C, Humidity 20%-85%
Storage Temperature	-20°C to 60°C, Humidity 20%-85%
Lighting Dimension ϕ xH	ϕ 130.0x 12mm
IP Rating	N/A





Led Colour	RED(R/R24)	GREEN(G)	BLUE (B)	WHITE (W)
Optical Information				
Wavelength / Color temperature	626nm	525nm	470nm	xy=(0.31,0.32)
Illumination (Number of LED)	48	48	48	48
Illumination Area	Ø94 mm (180°)			
Led Package	SMD			
Eye Safety (EN 62471:2008)	Exempt Group			
Optimal Working Distance	0-20 mm			

Continuous Mode	Voltage Drive (With resistor)			Current Drive (Without resistor)		
	R	R24	G/B/W	R	R24	G/B/W
Supply Voltage To Controller	12VDC ± 2%	24VDC ± 2%		9VDC ± 2%	21VDC ± 2%	22VDC ± 2%
Lighting Forward Voltage, Vf	8.0 V	20.0 V	21.0 V	8.0 V	20.0 V	21.0 V
Max. Current	0.48A (MAX)	0.20A (MAX)	0.14A (MAX)	0.48A (MAX)	0.20A (MAX)	0.14A (MAX)
Max. Power	5.76 W	4.80 W	3.36 W	4.32 W	4.20 W	3.08 W

Strobe Mode	Voltage Drive			Current Drive		
	R	R24	G/B/W	R	R24	G/B/W
Max. Lighting Supply Voltage	Pulsing at 12VDC to 24VDC, Recommended at 18VDC	Pulsing at 24VDC to 48VDC, Recommended at 36VDC		Pulsing at 9VDC	Pulsing at 21VDC	Pulsing at 22VDC
Max. Current	1.20A (MAX)	0.50A (MAX)	0.50A (MAX)	1.20A (MAX)	0.50A (MAX)	0.50A (MAX)
Max. Trigger Pulse Duration	10 msec					
Duty Cycle	< 10%					

Ordering Part Number	Controller Type	Description
FLDR-Si130LA1-HC180-R /R24 /G /B /W	Voltage Drive	With Resistor (Use in both constant voltage/ current power supply)
FLDR-Si130LA1-HC180-R /R24 /G /B /W-0	Current Drive	Without Resistor (0 Ohm) (Only use in constant current power supply)



Connection	R				R24/G/B/W			
Connector Type (Default):	JST SMR-02V				JST SMR-03V			
	Pin	Signal	Cable Color		Pin	Signal	Cable Color	
	1	LED +	Black/White		1	LED +	Black/White	
	2	LED -	Black		2	N.C.	---	
					3	LED -	Black	
Cable Length out from lighting:	300mm							

Additional Information	Details
Life span in continuous mode	20,000 hours
Life span in strobe light mode Lighting drop to 50% intensity (at 25°C ambient temperature)	50,000 hours
Supply Ripple Voltage	$\leq V_s \pm 5\%$
Reverse Battery Protection	YES
Cooling Method	Natural air-cooling
Additional Cooling Method	Attached to machine part for better heat dissipation
Intensity Controller Selection	PSA-Series, PSD-Series, LIC-Series
CE Conformity	YES
ISO 9001:2015	MY11/00845



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