

## Low Angle Ring Diffuse Light

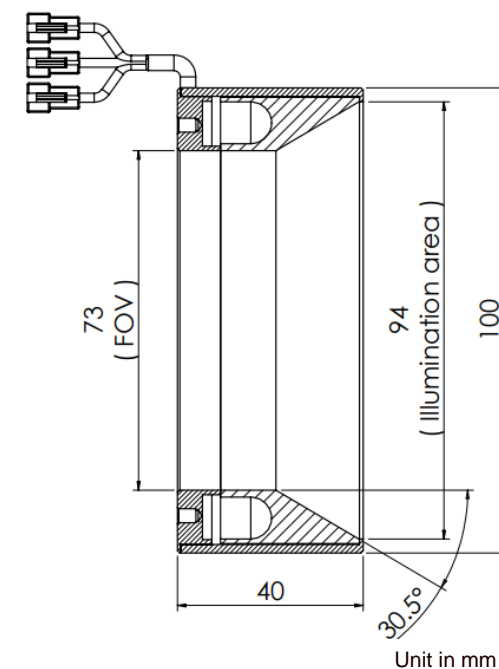
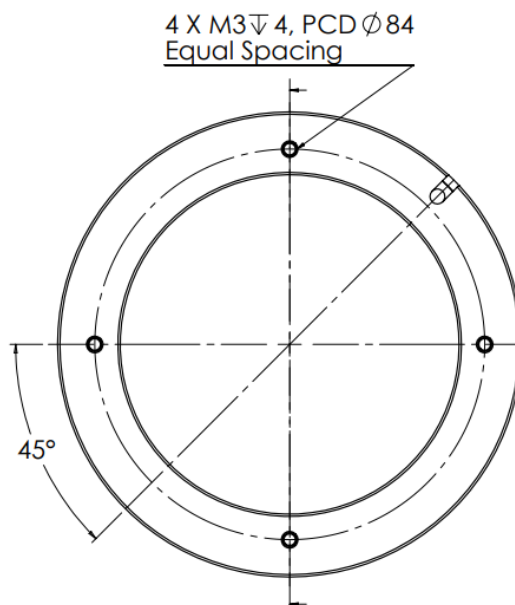


### FFPR-Si100-RGB

#### Lighting Picture



#### Lighting Dimension



Mechanical Information	
Casing Material	Aluminum + Acrylic
Weight	200 g
Operating Temperature	0°C to 40°C, Humidity 20%-85%
Storage Temperature	Temp 0-35°C, Humidity 20-85%
Lighting Dimension OD/ID/H	100.0 / 73.0 / 40.0 mm
IP Rating	IP 50




Led Colour	RED (R24)	Green (G)	Blue (B)
<b>Optical Information</b>			
Wavelength / Color temperature	626nm	525nm	470nm
Illumination (Number of LED)	40	42	42
Illumination Area	Ø94mm		
Led Package	SMD		
Eye Safety (EN 62471:2008)	Exempt Group		
Optimal Working Distance	0-30 mm		

Continuous Mode	Voltage Drive (With resistor)			Current Drive (Without resistor)		
	R24	G	B	R24	G	B
Supply Voltage To Controller	24VDC ± 2%			21VDC ± 2%	22VDC ± 2%	22VDC ± 2%
Lighting Forward Voltage, Vf	20.0 V	21.0 V	21.0 V	20.0 V	21.0 V	21.0 V
Max. Current	0.08A (MAX)	0.12A (MAX)	0.12A (MAX)	0.08A (MAX)	0.12A (MAX)	0.12A (MAX)
Max. Power	1.92W	2.88W	2.88W	1.68W	2.64W	2.64W

Strobe Mode	Voltage Drive			Current Drive		
	R24	G	B	R24	G	B
Max. Lighting Supply Voltage	Pulsing at 24VDC to 48VDC, Recommended at 36VDC			Pulsing at 21VDC	Pulsing at 22VDC	Pulsing at 22VDC
Max. Current	0.20A (MAX)	0.30A (MAX)	0.30A (MAX)	0.20A (MAX)	0.30A (MAX)	0.30A (MAX)
Max. Trigger Pulse Duration	10 msec					
Duty Cycle	0 - 10%					

Ordering Part Number	Controller Type	Description
FFPR-Si100-RGB	Voltage Drive	With Resistor (Use in both constant voltage/ current power supply)
FFPR-Si100-RGB-0	Current Drive	Without Resistor (0 Ohm) (Only use in constant current power supply)



Connection	R24		G	B	
Connector Type (Default):	Pin	Signal	Cable Color		
	1	LED +	Black/White		
	2	N.C.	---		
	3	LED -	Black		
Cable Length out from lighting:	450 mm				

Additional Information	Details
Life span in continuous mode	20,000 hours
Life span in strobe light mode	50,000 hours
Lighting drop to 50% intensity (at 25°C ambient temperature)	
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	MY05916



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