



## Low Angle Ring Diffuse Light

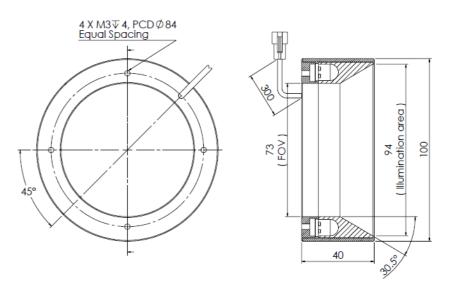
# FFPR-Si100

### **Lighting Picture**



Mechanical Information	
Casing Material	Aluminum + Acrylic
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	190 g
Lighting Dimension, OD / ID / H	100.0 / 73.0 / 40.0 mm
IP Rating	IP 50

## **Lighting Dimension**



<sup>\*</sup> Cable can be flexible bend to top or to side of the housing

Unit in mm







Optical Information				
Led Color	RED (R24)	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	626nm	525nm	470nm	xy=0.31,0.32
Illumination (number of LED)	90	91	91	91
Illumination Area	Ø94mm			
Led Package	SMD			
Eye Safety (EN 62471:2008)	Exempt Group			

<b>Electrical Information</b>	R24	G/B/W	
Lighting Supply Voltage (constant voltage mode)	24V ± 2%		
Supply Ripple Voltage	≤ Vs ± 5%		
Reverse Battery Protection	YES		
Typical Lighting Forward voltage, Vf (for zero internal resistor value)	22.0 V	21.0 V	
Continuous Current	0.36A(MAX)	0.26A(MAX)	
Power Consumption	8.64 W	6.24 W	
Lighting casing temperature, Operating after 60 minutes	56°C	°C	

Strobe Mode Specification	R24	G/B/W	
Max. Lighting Supply Voltage	Pulsing at 24VDC to 48VDC,		
(Constant voltage power supply)	0-10% Duty Cycle		
	Recommended at 36VDC		
Pulse Current, (Max. 10msec)	0.90A(MAX)	0.65A(MAX)	
(Constant current power supply)	0.90A(IVIAA)		
Max. Trigger Pulse Duration, msec	10 msec		
Duty Cycle	0 - 10%		

Ordering Option		
FFPR-Si100-R24/G/B/W	With resistor to limit the current	
	(Use in both constant voltage/ current power supply)	
FFPR-Si100-R24/G/B/W-0	Internal resistor value= zero ohms	
	(only use in constant current power supply)	





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

Additional Information	R24/G/B/W		
Additional Cooling Method	Attached to machine part for better heat dissipation		
Life span in continuous mode	20,000 hours		
Life span in strobe light mode			
Lighting drop to 50% intensity	50,000 hours		
(at 25°C ambient temperature)			
Intensity Controller Selection	PSA-Series, PSD-Series, LIC-Series		
CE Conformity	YES		
RoHS Compliance	YES		
ISO 9001:2008	SG11/03751		

Application	
Optimal Working Distance	0-30 mm





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