

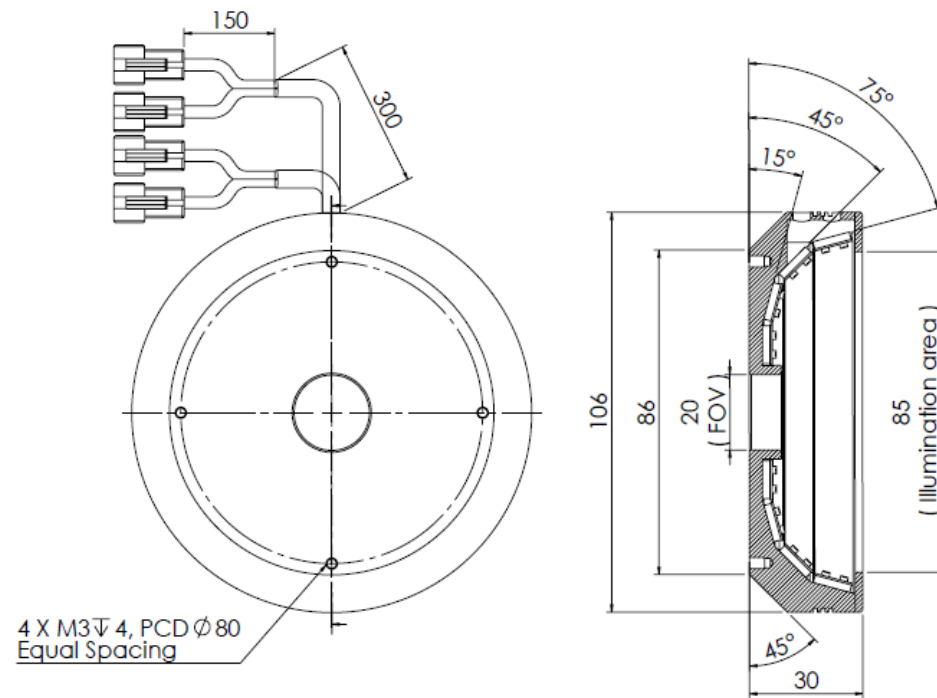
Multi color/ Multi-angle Ring Light Solution

 **FIBS-Si90**

Lighting Picture



Lighting Dimension



Mechanical Information	
Casing Material	Aluminium
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	380g
Lighting Dimension, ϕ xH	ϕ 106.0 x 30.0 mm
IP Rating	N/A


Unit in mm

Optical Information				
Led Color	RED (R24)	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	626nm	525nm	470nm	xy=(0.31,0.32)
Number of LED, (L1=Bottom, L2=Mid 1, L3=Mid 2, L4=Top)	L2=50	L3=77	L4=91	L1=35
Illumination Area	Ø85mm			
Led Package	SMD			
Eye Safety (EN 62471:2008)	Exempt Group			

Electrical Information		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)	22.0V	21.0V	
Continuous Current/ Power Consumption L1=Bottom, L2=Mid 1, L3=Mid 2, L4=Top	L2=0.20A (MAX) / 4.80W	L1=0.10A (MAX) / 2.40W L3=0.22A (MAX) / 5.28W L4=0.26A (MAX) / 6.24W	
Lighting casing temperature, Operating after 60 minutes	61°C (If all L1, L2, L3, L4 turn "ON")		

Strobe Mode Specification		R24	G/B/W
Max. Lighting Supply Voltage (Constant voltage power supply)		Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle Recommended at 36VDC	
Pulse Current, (Max. 10msec) (Constant current power supply)	L2=0.50A (MAX)	L1=0.25A (MAX) L3=0.55A (MAX) L4=0.65A (MAX)	
Max. Trigger Pulse Duration, msec	10 msec		
Duty Cycle	0 - 10% ***		

Ordering Option	
FIBS-Si90-L1/L2/L3/L4 Note: L1/L2/L3/L4 can have selection of R24/G/B/W	With resistor to limit the current (Use in both constant voltage/ current power supply)
FIBS-Si90-L1/L2/L3/L4-0 Note: L1/L2/L3/L4 can have selection of R24/G/B/W	Internal resistor value= zero ohms (only use in constant current power supply)

Connection		R24/G/B/W		
Connector Type :	JST SMR-03V (Default)			
Cable Length out from lighting:	450 mm			
	Pin	Signal	Cable Color	
	1	LED +	Black/White	
	2	N.C.	---	
	3	LED -	Black	

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 (at 25°C ambient temperature)	50,000 hours			
Intensity Controller Selection	PSA-Series, PSD-Series, LIC-Series			
CE Conformity	YES			
RoHS Compliance	YES			
ISO 9001:2008	SG11/03751			

Application	
Optimal Working Distance	0-40mm

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