

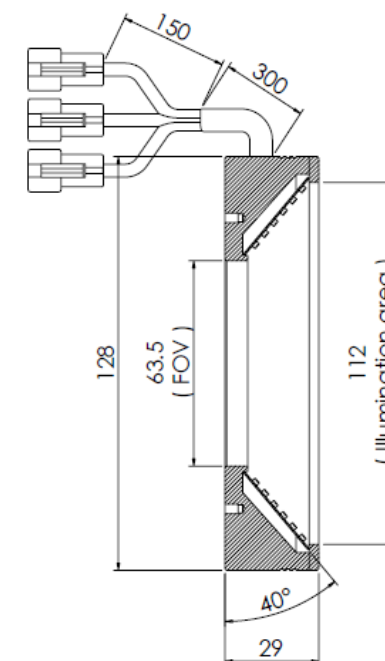
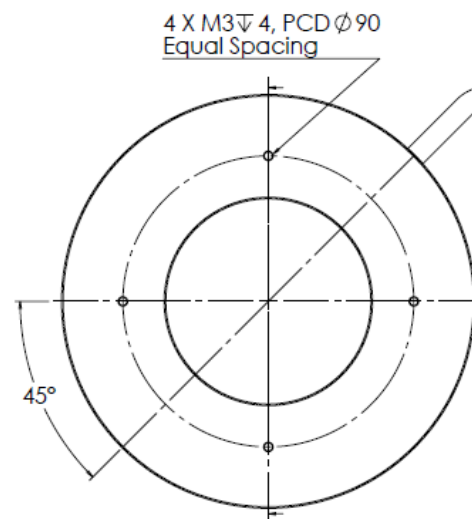
Ring Light-Multicolour

[FALCON] FLDR-Si120B-RGB

Lighting Picture



Lighting Dimension



Mechanical Information	
Casing Material	Aluminium
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	410g
Lighting Dimension ϕ xH	ϕ 128.0 x 29.0 mm
IP Rating	N/A

Unit in mm



Optical Information			
Led Color	RED (R24)	GREEN (G)	BLUE (B)
Wavelength	626nm	525nm	470nm
Illumination (number of LED)	100	98	98
Illumination Area	Ø112mm		
Led Package	SMD		
Eye Safety (EN 62471:2008)	Exempt Group		

Electrical Information			
	R24	G	B
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	21.0 V
Continuous Current	0.40A(MAX)	0.28A(MAX)	0.28A(MAX)
Power Consumption	9.60 W	6.72 W	6.72 W
Total Power (R24+G+B)	23.04 W		
Lighting casing temperature, Operating after 60 minutes	72°C		

Strobe Mode Specification			
	R24	G	B
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)	1.00A(MAX)	0.70A(MAX)	0.70A(MAX)
Max. Trigger Pulse Duration, msec	10 msec		
Duty Cycle	0 - 10%		

Ordering Option	
FLDR-Si120B-RGB	With resistor to limit the current (Use in both constant voltage/ current power supply)
FLDR-Si120B-RGB-0	Internal resistor value= zero ohms (only use in constant current power supply)



Connection	R24	G	B
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:	450 mm		



Additional Information	R24/G/B
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	50,000 hours
Lighting drop to 50% intensity (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
20-100 mm



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