



# Direct Angle Ring Light

# FLDR-i38B

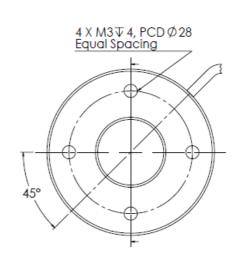
## **Lighting Picture**

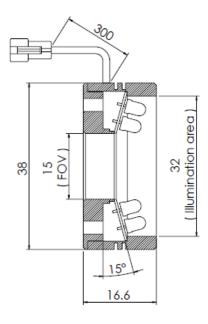
### **Lighting Dimension**





Mechanical Information	
Casing Material	Aluminium
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	35 g
Lighting Dimension ØxH	Ø38.0x 16.6 mm
IP Rating	N/A





Unit in mm







Optical Information						
Led Color	RED(SR/SR24)	InfraRed (IR/IR24)	GREEN(G12/G)	BLUE (B12/B)	WHITE (W12/W)	
Wavelength	626nm	875nm	525nm	470nm	xy=(0.31,0.32)	
Illumination (number of LED)	30/36	35/30	36/35	36/35	36/35	
Illumination Area	Ø32mm					
Led Package	T1 3mm					
Eye Safety (EN 62471:2008)			Exempt Group			

Electrical Information	SR	IR	G12/B12/W12	SR24	G/B/W		
Lighting Supply Voltage (constant voltage mode)		12V ± 2%		24V ± 2%			
Supply Ripple Voltage		≤ Vs ± 5%					
Reverse Battery Protection		YES					
Typical Lighting Forward voltage, Vf (for zero internal resistor value)	10.0V	9.8V	9.0V	20.0V	21.0V	21.0V	
Continuous Current	0.18A (MAX)	0.13A (MAX)	0.24A (MAX)	0.06A (MAX)	0.05A (MAX)	0.10A (MAX)	
Power Consumption	2.16 W 1.50 W 2.88 W			1.44 W	1.20 W	2.40 W	
Lighting casing temperature, Operating after 60 minutes	52°C	52°C	52°C	52°C	50°C	55°C	

Strobe Mode Specification	SR	IR	G12/B12/W12	SR24	IR24	G/B/W	
Max. Lighting Supply Voltage	Puls	sing at 12VDC to 24V	DC,	Pulsing at 24VDC to 48VDC,			
(Constant voltage power supply)	0-10% Duty Cycle			0-10% Duty Cycle			
	Recommended at 15VDC			Recommended at 36VDC			
Pulse Current, (Max. 10msec)	0.45A (MAX)	0.31A (MAX)	0.604 (MAY)	0.454 (MAV)	0.424 (MAV)	0.25A (MAX)	
(Constant current power supply)	U.43A (IVIAA)	U.STA (IVIAA)	0.60A (MAX)	0.15A (MAX)	0.13A (MAX)		
Max. Trigger Pulse Duration, msec	10 msec						
Duty Cycle	0 - 10%						

Ordering Option	
FLDR-i38B-SR/SR24/IR/IR24/G12/G/B12/B/W12/W	With resistor to limit the current (Use in both constant voltage/ current power supply)
FLDR-i38B-SR/SR24/IR/IR24/G12/G/B12/B/W12/W -0	Internal resistor value= zero ohms (only use in constant current power supply)







Connection		SR/IR/G12/B12/W12			SR24/IR24/G/B/W			
Connector Type (Default):	JST	JST SMR-02V			JST SMR-03V			
	Pin	Sigr	nal	Cable Color	Pin	Sig	inal	Cable Color
	1	LED	) +	Black/White	1	LEI	D +	Black/White
	2	LED -		Black	2	N.C.		
					3	LE	D -	Black
Cable Length out from lighting:	300 mm							

Additional Information	SR/SR24/G12/G/B12/B/W12/W/IR/IR24
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	5-100 mm



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