

Direct Angle Ring Light

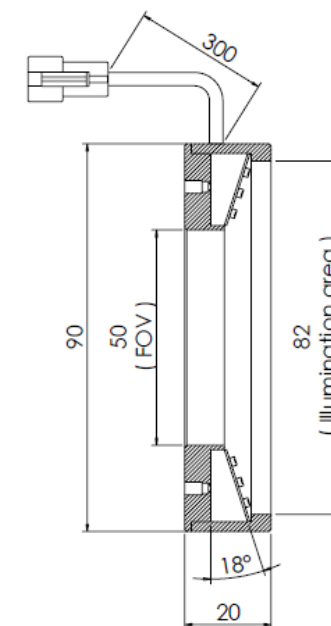
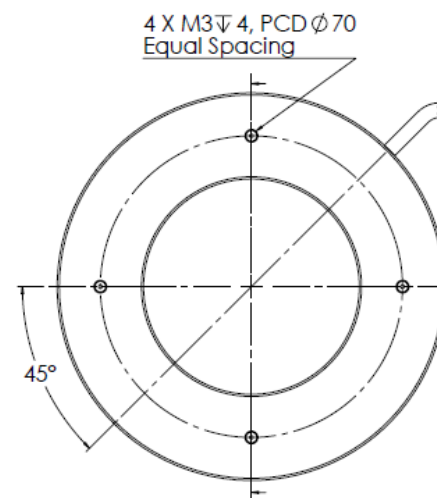


FLDR-Si90B-AOI

Lighting Picture



Lighting Dimension



Unit in mm

Mechanical Information

Casing Material	Aluminium
Weight	140g
Operating Temperature	0°C to 40°C, Humidity 20%-85%
Storage Temperature	-20°C to 60°C, Humidity 20%-85%
Lighting Dimension ØxH	Ø90.0 x 20.0 mm
IP Rating	N/A





Led Colour Optical Information	GREEN (G12)	BLUE (B12)	WHITE (W12)	RED(R24)	GREEN(G)	BLUE (B)	WHITE (W)
Wavelength / Color temperature	525nm	470nm	xy=(0.31,0.32)	626nm	525nm	470nm	xy=(0.31,0.32)
Illumination (Number of LED)	93			90	91		96
Illumination Area	Ø82mm						
Led Package	SMD						
Eye Safety (EN 62471:2008)	Exempt Group						
Optimal Working Distance	20-100 mm						

Continuous Mode	Voltage Drive (With resistor)				Current Drive (Without resistor)			
	G12/B12/W12	R24	G/B	W	G12/B12/W12	R24	G/B	W
Supply Voltage To Controller	12VDC ± 2%	24VDC ± 2%			10VDC ± 2%	22VDC ± 2%		23VDC ± 2%
Lighting Forward Voltage, Vf	9Vf	21Vf		22Vf	9Vf	21Vf		22Vf
Max. Current	0.62A (MAX)	0.36A (MAX)	0.26A (MAX)	0.36A (MAX)	0.62A (MAX)	0.36A (MAX)	0.26A (MAX)	0.36A (MAX)
Max. Power	7.44 W	8.64 W	6.24 W	8.64W	6.20 W	7.92 W	5.72 W	8.28 W

Strobe Mode	Voltage Drive				Current Drive			
	G12/B12/W12	R24	G/B	W	G12/B12/W12	R24	G/B	W
Max. Lighting Supply Voltage	Pulsing at 12VDC to 24VDC, Recommended at 15VDC	Pulsing at 24VDC to 48VDC, Recommended at 36VDC			Pulsing at 10VDC	Pulsing at 22VDC		Pulsing at 23VDC
Max. Current	0.62 – 1.55A (MAX)	0.36 – 0.90A (MAX)	0.26 – 0.65A (MAX)	0.36 – 0.90A (MAX)	0.62 – 1.55A (MAX)	0.36 – 0.90A (MAX)	0.26 – 0.65A (MAX)	0.36 – 0.90A (MAX)
Max. Trigger Pulse Duration	10 msec							
Duty Cycle	< 10%							



Ordering Part Number	Controller Type	Description
FLDR-Si90B-AOI-G12/B12/W12/R24/G/B/W	Voltage Drive	With Resistor (Use in both constant voltage/ current power supply)
FLDR-Si90B-AOI-G12/B12/W12/R24/G/B/W-0	Current Drive	Without Resistor (0 Ohm) (Only use in constant current power supply)

Connection	G12/B12/W12				R24/G/B/W			
Connector Type (Default):	JST SMR-02V				JST SMR-03V			
	Pin	Signal	Cable Color		Pin	Signal	Cable Color	
	1	LED +	Black/White		1	LED +	Black/White	
	2	LED -	Black		2	N.C.	---	
					3	LED -	Black	
Cable Length out from lighting:	300 mm							

Additional Information	Details
Life span in continuous mode	20,000 hours
Life span in strobe light mode	50,000 hours
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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