

Direct Angle Ring Light



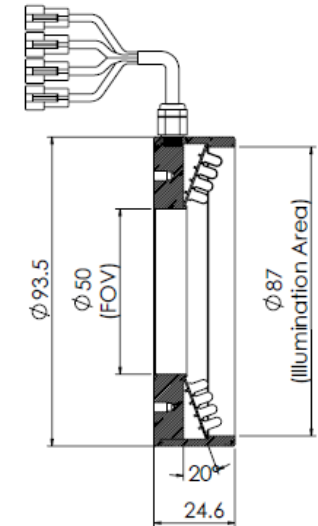
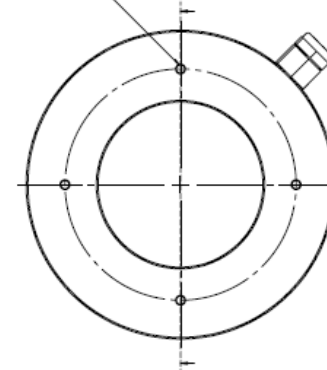
FLDR-i90B-4

Lighting Picture



Lighting Dimension

4 x M3 ∇ 4, PSD 70
Equal Spacing



Unit in mm

Mechanical Information	
Casing Material	Aluminium
Weight	246g
Operating Temperature	0°C to 40°C, Humidity 20%-85%
Storage Temperature	-20°C to 60°C, Humidity 20%-85%
Lighting Dimension OØ x IØ x ØH	Ø93.5 x 50.0 x 24.6mm
IP Rating	N/A



FLDR-i90B-4

Asia Office: www.falconmv.com, Europe Office: www.falcon-illumination.de
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Led Colour	RED (SR24)	WHITE(W)
Optical Information		
Wavelength / Color temperature	626nm	xy=(0.31, 0.32)
Illumination (Number of LED)	200	196
Illumination Area	Ø87mm	
Led Package	T1 3mm	
Eye Safety (EN 62471:2008)	Exempt Group	
Optimal Working Distance	5 – 100mm	

Continuous Mode	Segment (1/2/3/4)	Total 4 Segments	Segment (1/2/3/4)	Total 4 Segments
Supply Voltage To Controller	24VDC \pm 2%		24VDC \pm 2%	
Lighting Forward Voltage, Vf	Vf= 20.0 V		Vf= 21.0 V	
Max. Current	0.1A	0.4A	0.14A	0.56A
Max. Power	2.4 Watts	9.6 Watts	3.36 Watts	13.44 Watts

Strobe Mode	Segment (1/2/3/4)	Total 4 Segments	Segment (1/2/3/4)	Total 4 Segments
Max. Lighting Supply Voltage	Pulsing at 24VDC to 48VDC, Recommended at 36VDC		Pulsing at 24VDC to 48VDC, Recommended at 36VDC	
Max. Current	0.25A	1.0A	0.35A	1.4A
Max. Power	12.0 Watts	48.0 Watts	16.8 Watts	67.2 Watts
Max. Trigger Pulse Duration	10 msec			
Duty Cycle	< 10%			

Ordering Part Number	Controller Type	Description
FLDR-i90B-4-W/G/B/R24	Voltage Drive	With Resistor (Use constant voltage Power Supply)



Connection	Connector Information			
Connector Type (Default):	Segment 1 (L1)	Pin	Description	Cable Color
		1	LED +	Black/White
		2	N.C.	---
		3	LED -	Black
	Segment 2 (L2)	Pin	Description	Cable Color
		1	LED +	Black/White
		2	N.C.	---
		3	LED -	Black
	Segment 3 (L3)	Pin	Description	Cable Color
		1	LED +	Black/White
		2	N.C.	---
		3	LED -	Black
	Segment 4 (L4)	Pin	Description	Cable Color
		1	LED +	Black/White
		2	N.C.	---
		3	LED -	Black
Cable Length out from lighting:	450 mm			

Additional Information	Details
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)	
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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