

Direct Angle Ring Light

[FALCON] FLDR-i100B-4

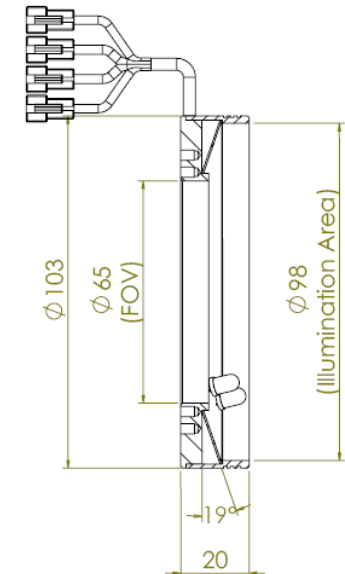
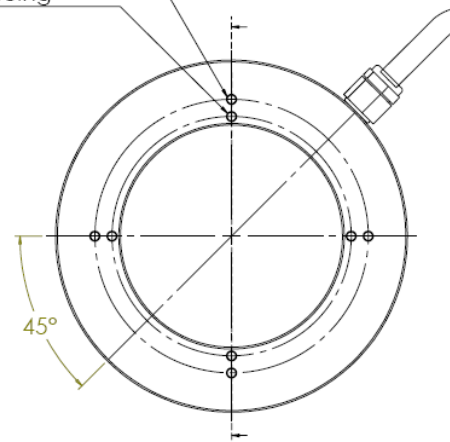
Lighting Picture



Lighting Dimension

4 X M3 ∇ 4, PCD ϕ 80
Equal Spacing

4 X M3 ∇ 4, PCD ϕ 70
Equal Spacing



Mechanical Information	
Casing Material	Aluminium
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	153 g
Lighting Dimension $\phi \times H$	$\phi 103.0 \times 20.0 \text{ mm}$
IP Rating	N/A

Unit in mm



Led Colour	WHITE (W)
Optical Information	
Wavelength / Color temperature	xy=(0.31,0.32)
Illumination (Number of LED)	112
Illumination Area	Ø98mm
Led Package	T1 ¾ 5mm
Eye Safety (EN 62471:2008)	Exempt Group
Optimal Working Distance	10-100 mm

Continuous Mode	Voltage Drive (With resistor)	Current Drive (Without resistor)
	W	W
Supply Voltage To Controller	24VDC ± 2%	22VDC ± 2%
Lighting Forward Voltage, Vf	Vf= 21.0 V	Vf= 21.0 V
Max. Current	0.32A (MAX)	0.32A (MAX)
Max. Power	7.68W	7.04W

Strobe Mode	Voltage Drive (With resistor)	Current Drive (Without resistor)
	W	W
Max. Lighting Supply Voltage	Pulsing at 24VDC to 48VDC, Recommended at 36VDC	Pulsing at 22VDC
Max. Current	0.32A – 0.80A (MAX)	0.32A – 0.8A (MAX)
Max. Power	7.68W – 38.40W	7.04W – 17.60W
Max. Trigger Pulse Duration	10 msec	
Duty Cycle	< 10%	

Ordering Option	
FLDR-i100B-4-W	With resistor to limit the current (Use in both constant voltage/ current power supply)
FLDR-i100B-4-W-0	Internal resistor value= zero ohms (only use in constant current power supply)



Connection		W			
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:		150mm + 300mm			

	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	MY21/1811030613



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