

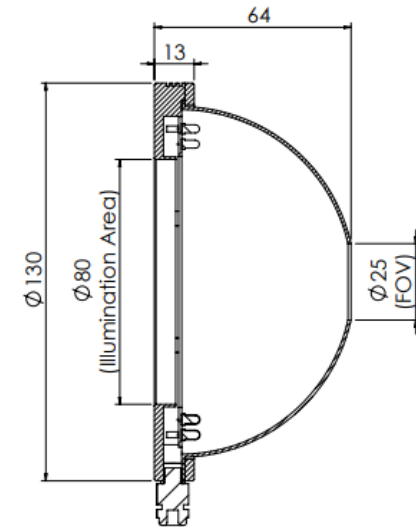
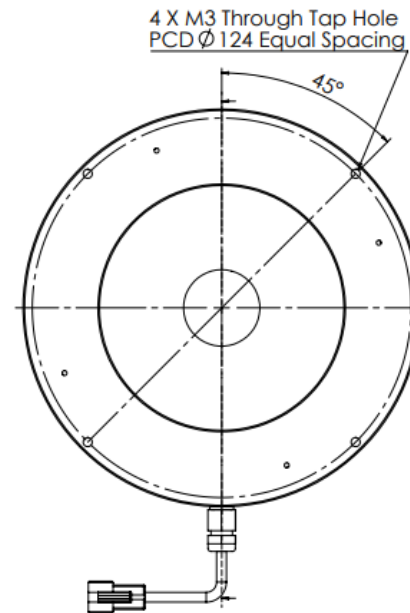
Dome Light

FLDM-i100

Lighting Picture



Lighting Dimension



Unit in mm

Mechanical Information	
Casing Material	Aluminium
Weight	220g
Operating Temperature	0°C to 40°C, Humidity 20%-85%
Storage Temperature	-20°C to 60°C, Humidity 20%-85%
Lighting Dimension, \varnothing xH	\varnothing 130.0 x 64.0mm
IP Rating	N/A



FLDM-i100

Asia Office: www.falconmv.com, Europe Office: www.falcon-illumination.de
Form No: DSG-FR004 / Rev 1.5 / Date: 2023-04-01 / SA
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Optical Information	InfraRed (IR24)
Wavelength / Color temperature	875nm
Illumination (Number of LED)	135
Illumination Area	Ø80mm
Led Package	T1 3mm
Eye Safety (EN 62471:2008)	Exempt Group
Optimal Working Distance	0-30 mm

Continuous Mode	Voltage Drive (With resistor)	Current Drive (Without resistor)
	IR24	IR24
Supply Voltage To Controller	24VDC ± 2%	22VDC ± 2%
Lighting Forward Voltage, Vf	21.0 V	21.0 V
Max. Current	0.23A(MAX)	0.23A(MAX)
Max. Power	5.52 W	5.06 W

Strobe Mode	Voltage Drive	Current Drive
	IR24	IR24
Max. Lighting Supply Voltage	Pulsing at 24VDC to 48VDC, Recommended at 36VDC	Pulsing at 22VDC
Max. Current	0.58A (MAX)	0.58A (MAX)
Max. Trigger Pulse Duration	10 msec	
Duty Cycle	< 10%	

Ordering Part Number	Controller Type	Description
FLDM-i100-IR24	Voltage Drive	With Resistor (Use in both constant voltage/ current power supply)
FLDM-i100-IR24-0	Current Drive	Without Resistor (0 Ohm) (Only use in constant current power supply)



Connection		IR24		
Connector Type (Default):	Pin	Signal	Cable Color	
	1	LED +	Black/White	
	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 Lighting drop to 50% intensity (at 25°C ambient temperature)	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	MY11/00845



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