

Dome Light

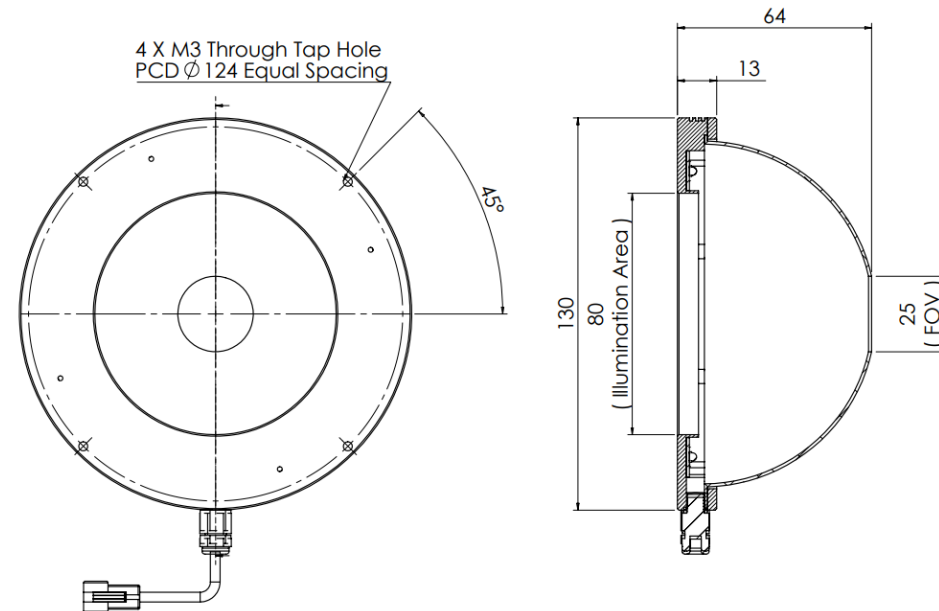


FLDM-Si100

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 ØxH	Ø130.0 x 64.0mm
IP Rating	N/A



FLDM-Si100

Led Colour Optical Information	RED (R/R24)	InfraRed (IR24)	WHITE (W)	GREEN (G)	BLUE (B)
Wavelength / Color temperature	626nm	875nm	Xy=(0.31,0.32)	525nm	470nm
Illumination (Number of LED)	60/55	90	24		
Illumination Area	Ø80mm				
Led Package	SMD				
Eye Safety (EN 62471:2008)	Exempt Group				
Optimal Working Distance	0-30 mm				

Continuous Mode	Voltage Drive (With resistor)				Current Drive (Without resistor)			
	R	R24	IR24	W/G/B	R	R24	IR24	W/G/B
Supply Voltage To Controller	12VDC $\pm$ 2%	24VDC $\pm$ 2%			12VDC $\pm$ 2%	24VDC $\pm$ 2%	22VDC $\pm$ 2%	23VDC $\pm$ 2%
Lighting Forward Voltage, Vf	11Vf	23Vf	21Vf	22Vf	11Vf	23Vf	21Vf	22Vf
Max. Current	0.48A(MAX)	0.20A(MAX)	0.15A (MAX)	0.30A (MAX)	0.48A (MAX)	0.20A (MAX)	0.15A (MAX)	0.30A (MAX)
Max. Power	5.76W	4.80W	3.60W	7.20W	5.76W	4.80W	3.30W	6.90W

Strobe Mode	Voltage Drive				Current Drive			
	R	R24	IR24	W/G/B	R	R24	IR24	W/G/B
Max. Lighting Supply Voltage	Pulsing at 12VDC to 24VDC, Recommended at 18VDC	Pulsing at 24VDC to 48VDC, Recommended at 36VDC			Pulsing at 12VDC	Pulsing at 24VDC	Pulsing at 22VDC	Pulsing at 23VDC
Max. Current	0.48 – 1.20A (MAX)	0.20 – 0.50A (MAX)	0.15 – 0.37A (MAX)	0.30 – 0.75A (MAX)	0.48 – 1.20A (MAX)	0.20 – 0.50A (MAX)	0.15 – 0.37A (MAX)	0.30 – 0.75A (MAX)
Max. Trigger Pulse Duration	10 msec							
Duty Cycle	< 10%							



Ordering Part Number	Controller Type	Description
FLDM-Si100- R/R24/IR24/W/G/B	Voltage Drive	With Resistor (Use in both constant voltage/ current power supply)
FLDM-Si100- R/R24/IR24/W/G/B-0	Current Drive	Without Resistor (0 Ohm) (Only use in constant current power supply)

Connection	R				R24/IR24/W/G/B			
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	MY21/1811030613



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