

Diffuse Back Light

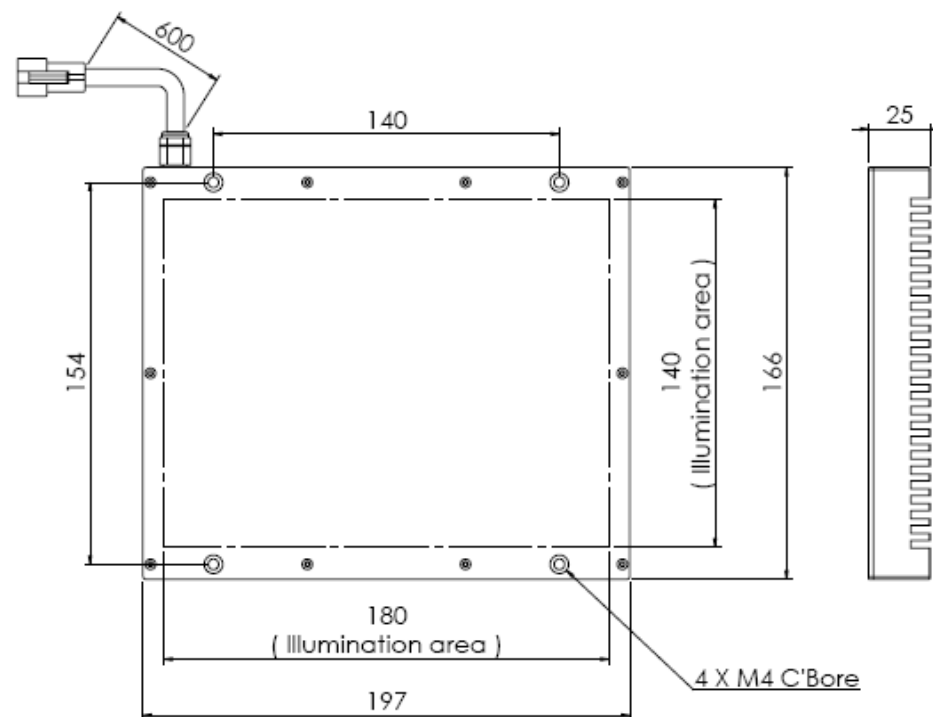


FLDL-TP-Si180x140

Lighting Picture



Lighting Dimension



Unit in mm

Mechanical Information

Casing Material	Aluminium + Diffuser
Weight	1060g
Operating Temperature	0°C to 40°C, Humidity 20%-85%
Storage Temperature	-20°C to 60°C, Humidity 20%-85%
Lighting Dimension W x L x H	197.0 x 166.0 x 25.0 mm
IP Rating	N/A



Led Colour	InfraRed (IR/IR24)	GREEN (G)	BLUE (B)	WHITE (W)
Optical Information				
Wavelength / Color temperature	875nm	525nm	470nm	Xy=(0.31,0.32)
Illumination (Number of LED)	560			
Illumination Area	180 x 140 mm			
Led Package	SMD			
Eye Safety (EN 62471:2008)	Exempt Group			
Optimal Working Distance	5-100 mm			

Continuous Mode	Voltage Drive (With resistor)		Current Drive (Without resistor)	
	IR	G/B/W	IR	G/B/W
Supply Voltage To Controller	12VDC $\pm$ 2%	24VDC $\pm$ 2%	11VDC $\pm$ 2%	23VDC $\pm$ 2%
Lighting Forward Voltage, Vf	Vf= 10	Vf= 22	Vf= 10	Vf= 22
Max. Current	2.00A (MAX)	1.40A (MAX)	2.00A (MAX)	1.40A (MAX)
Max. Power	24.00 W	33.60W	22.00 W	32.20W

Strobe Mode	Voltage Drive		Current Drive	
	IR	G/B/W	IR	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 11VDC	Pulsing at 23VDC
Max. Current	2.00 – 5.00A (MAX)	1.40 – 3.50A (MAX)	2.00 – 5.00A (MAX)	1.40 – 3.50A (MAX)
Max. Trigger Pulse Duration	10 msec			
Duty Cycle	< 10%			

Ordering Part Number	Controller Type	Description
FLDL-TP-Si180x140- IR/W/G/B	Voltage Drive	With Resistor (Use in both constant voltage/ current power supply)
FLDL-TP-Si180x140- IR/W/G/B-0	Current Drive	Without Resistor (0 Ohm) (Only use in constant current power supply)



Connection	IR				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:	600 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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