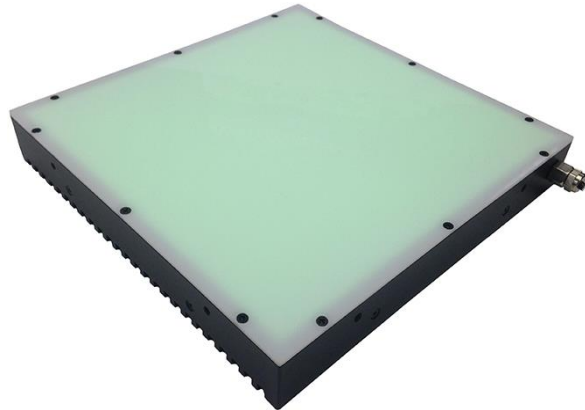


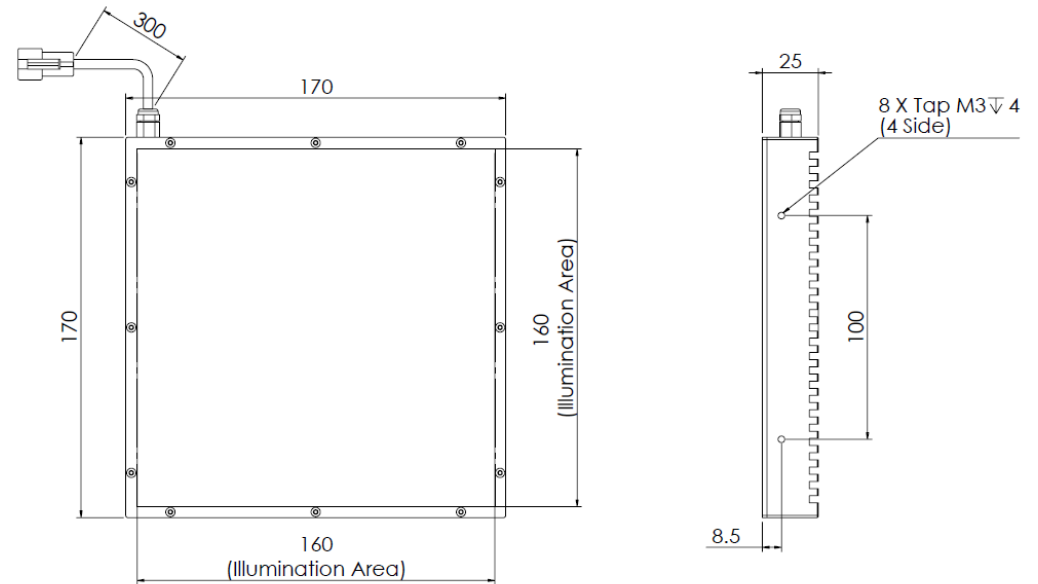
High Brightness Diffuse Back Light

FLDL-TP-Si160N

Lighting Picture



Lighting Dimension



Mechanical Information	
Casing Material	Aluminium
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	741g
Lighting Dimension WxLxH	170.0 x 170.0 x 25.0 mm
IP Rating	N/A

Unit in mm





Optical Information					
Led Color	RED (R24)	InfraRed (IR/IR24)	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	626nm	850nm	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	462	462/480	462	462	462
Illumination Area	160 x 160 mm				
Led Package	SMD				
Eye Safety (EN 62471:2008)	Exempt Group				

Electrical Information		IR	R24	IR24	G/B/W
Lighting Supply Voltage (constant voltage mode)	12V ± 2%	24V ± 2%			
Supply Ripple Voltage	≤ Vs ± 5%				
Reverse Battery Protection	YES				
Lighting Forward voltage, (for zero internal resistor value)	9.8 V	22.0 V	21.0 V	21.0 V	
Continuous Current	1.65A (MAX)	1.68A (MAX)	0.80A (MAX)	1.32A (MAX)	
Power Consumption	19.20 W	40.32 W	19.20 W	31.68 W	
Lighting casing temperature, Operating after 60 minutes	N/A	N/A	N/A	60°C	

Strobe Mode Specification		IR	R24	IR24	G/B/W
Max. Lighting Supply Voltage (Constant voltage power supply)	Pulsing at 12VDC to 24VDC, 0-10% Duty Cycle Recommended at 15VDC	Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle Recommended at 36VDC			
Pulse Current, (Max. 10msec) (Constant current power supply)	4.13A (MAX)	4.20A (MAX)	2.00A (MAX)	3.30A (MAX)	
Max. Trigger Pulse Duration, msec	10 msec				
Duty Cycle	0 - 10%				

Ordering Option	
FLDL-TP-Si160N-IR/IR24/R24/G/B/W	With resistor to limit the current (Use in both constant voltage / current power supply)
FLDL-TP-Si160N-IR/IR24/R24/G/B/W-0	Internal resistor value= zero ohms (only use in constant current power supply)



Connection		IR				IR24/R24/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:		300 mm							

Additional Information		IR/IR24/R24/G/B/W	
Additional Cooling Method	Attached to machine part for better heat dissipation		
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		
Intensity Controller Selection	PSA-Series, PSD-Series, LIC-Series		
CE Conformity	YES		
RoHS Compliance	YES		
ISO 9001:2008	SG11/03751		

Application	
Optimal Working Distance	5-100 mm



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