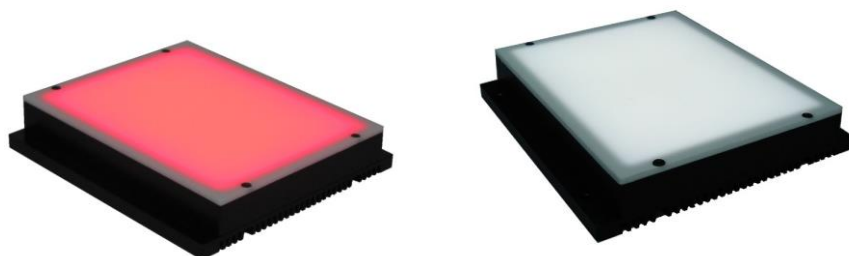


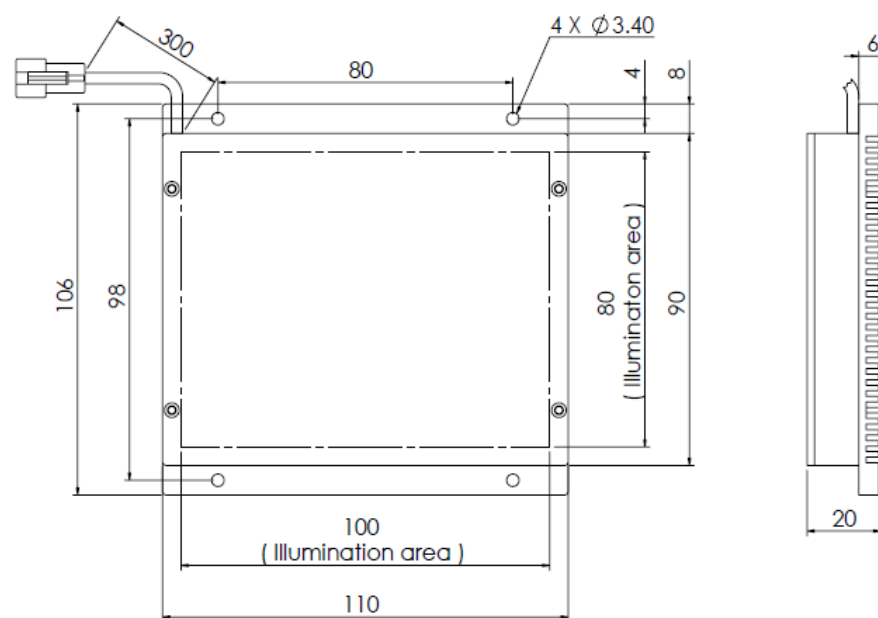
High Brightness Diffuse Back Light

FLDL-TP-Si100X80

Lighting Picture



Lighting Dimension



Mechanical Information	
Casing Material	Aluminium + Diffuser
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	270g
Lighting Dimension, WxLxH	110.0 x 106.0 x 20.0 mm
IP Rating	IP 50



Optical Information					
Led Color	RED (R24)	InfraRed (IR)	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	626nm	850nm	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	180	168	168	168	168
Illumination Area	100 x 80 mm				
Led Package	SMD				
Eye Safety (EN 62471:2008)	Exempt Group				

Electrical Information	IR	R24	G/B/W
Lighting Supply Voltage (constant voltage mode)	12V ± 2%	24V ± 2%	
Supply Ripple Voltage	≤ Vs ± 5%		
Reverse Battery Protection	YES		
Typical Lighting Forward voltage, Vf (for zero internal resistor value)	9.8 V	22.0 V	21.0 V
Continuous Current	0.60A (MAX)	0.72A (MAX)	0.48A (MAX)
Power Consumption	7.20 W	17.28 W	11.52 W
Lighting casing temperature, Operating after 60 minutes	50°C	60°C	55°C

Strobe Mode Specification	IR	R24	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)	1.50A (MAX)	1.80A (MAX)	1.20A (MAX)
Max. Trigger Pulse Duration, msec	10 msec		
Duty Cycle	0 - 10%		

Ordering Option	
FLDL-TP-Si100X80-R24/IR/G/B/W	With resistor to limit the current (Use in both constant voltage/ current power supply)
FLDL-TP-Si100X80-R24/IR/G/B/W-0	Internal resistor value= zero ohms (only use in constant current power supply)



Connection		IR			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		R24/IR/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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