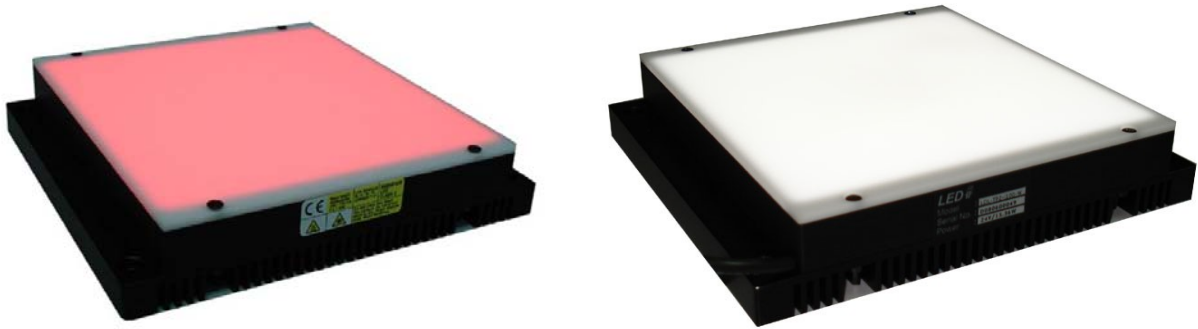


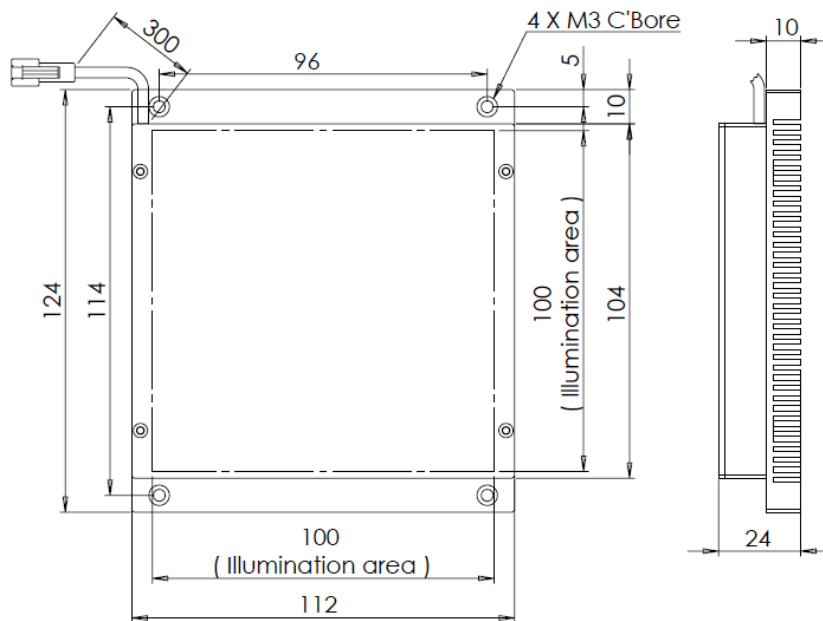
High Brightness Diffuse Back Light

 **FLDL-TP-Si100**

Lighting Picture





Lighting Dimension



All unit in mm

Mechanical Information	
Casing Material	Aluminium + Diffuser
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	370g
Lighting Dimension, WxLxH	112.0 x 124.0 x 24.0 mm
IP Rating	IP 50



Optical Information						
Led Color	RED (R/R24)	GREEN (G)	BLUE (B)	WHITE (W)		
Wavelength	635nm	525nm	470nm	xy=(0.31,0.32)		
Illumination (number of LED)	225/240		225			
Illumination Area	100 x100 mm					
Led Package	SMD					
Eye Safety (EN 62471:2008)	Exempt Group					
Electrical Information						
	R	R24	W/G/B			
Lighting Supply Voltage (constant voltage mode)	12V ± 2%	24V ± 2%	24V ± 2%			
Supply Ripple Voltage	≤ Vs ± 5%					
Reverse Battery Protection	YES					
Lighting Forward voltage, (for zero internal resistor value)	11.0 V	22.0 V	21.0 V			
Continuous Current	1.80 A (MAX)	0.96 A (MAX)	0.64 A (MAX)			
Power Consumption	21.60 Watts	23.04 Watts	15.36 Watts			
Lighting casing temperature, Operating after 60 minutes	50°C			44°C		
Strobe Mode Specification						
	R	R24	G/B/W			
Max. Lighting Supply Voltage (Constant voltage power supply)	Pulsing at 12 - 24VDC	Pulsing at 24V – 48VDC	Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle Recommended at 36VDC			
Pulse Current, (Max. 10msec) (Constant current power supply)	4.5 A (MAX)	2.4 (MAX)	1.6 A (MAX)			
Max. Trigger Pulse Duration, msec	10 msec					
Duty Cycle	0 to 10%					
Additional Information						
Additional Cooling Method	Attached to machine part for better heat dissipation					
Life span in continuous mode	20,000 hours (drop to 50% intensity) at 25°C					
Life span in strobe light mode	Est. >50,000 hours (drop to 50% intensity) at 25°C					
Intensity Controller Selection	PSA-Series, PSD Series, LIC-Series					
CE Conformity	YES					
RoHS Compliance	YES					
ISO 9001:2008	SG11/03751					
Ordering Option						
FLDL-TP-Si100-R/R24/G/B/W	With resistor to limit the current (Use in both constant voltage/ current power supply)					
FLDL-TP-Si100-R/R24/G/B/W-0	Internal resistor value= zero ohms (only use in constant current power supply)					
Connection						
	R			R24/G/B/W		
Connector Type (Default):	JST SMR-02V			JST SMR-03V		
Cable Length out from lighting:	300 mm					
Pin Configuration:	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
						
Application						
Optimal Working Distance	5-100mm					



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