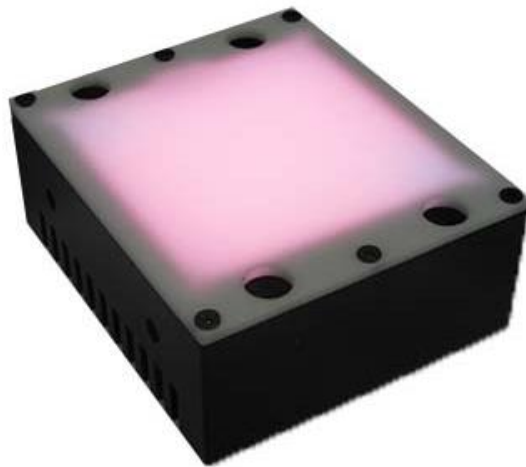


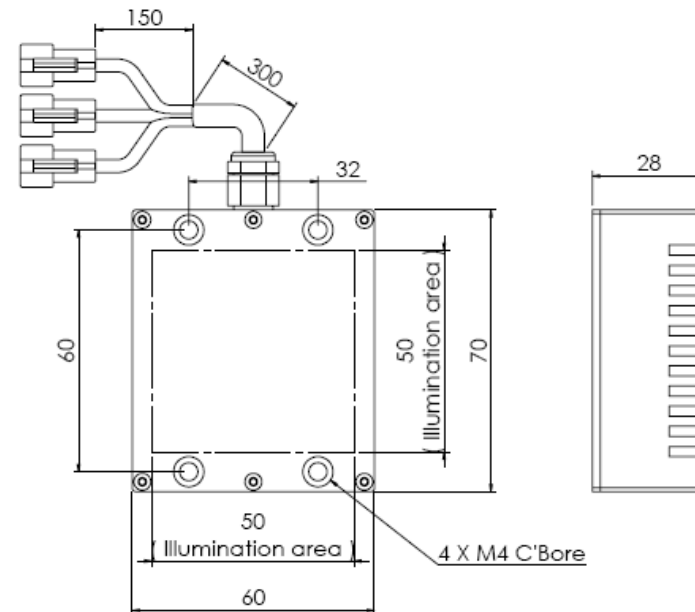
# High Brightness Diffuse Back Light - Multicolor

## FLDL-TP-Si51-RGB

Lighting Picture



Lighting Dimension



Mechanical Information	
Casing Material	Aluminium + Diffuser
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	215 g
Lighting Dimension WxLxH	60.0 x 70.0 x 28.0 mm
IP Rating	IP 50

Unit in mm





Optical Information			
Led Color	RED (R24)	GREEN (G)	BLUE (B)
Wavelength	635nm	525nm	470nm
Illumination (number of LED)	40	42	42
Illumination Area	50.0 x 50.0 mm		
Led Package	SMD		
Eye Safety (EN 62471:2008)	Exempt Group		

Electrical Information	R24	G	B
Lighting Supply Voltage (constant voltage mode)	24V ± 2%		
Supply Ripple Voltage	≤ Vs ± 5%		
Reverse Battery Protection	YES		
Lighting Forward voltage, (for zero internal resistor value)	22.0 V	21.0 V	21.0 V
Continuous Current	0.08A (MAX)	0.12A (MAX)	0.12A (MAX)
Power Consumption	1.92 W	2.88 W	2.88 W
Lighting casing temperature, Operating after 60 minutes	52°C		

Strobe Mode Specification	R24	G	B
Max. Lighting Supply Voltage (Constant voltage power supply)	Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle Recommended at 36VDC		
Pulse Current, (Max. 10msec) (Constant current power supply)	0.20A (MAX)	7.20A (MAX)	7.20A (MAX)
Max. Trigger Pulse Duration, msec	10 msec		
Duty Cycle	0 - 10%		

Ordering Option	
FLDL-TP-Si51-RGB	With resistor to limit the current (Use in both constant voltage/ current power supply)
FLDL-TP-Si51-RGB-0	Internal resistor value= zero ohms (only use in constant current power supply)



Connection	R/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:	450 mm					

Additional Information	R/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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