



High Brightness Diffuse Back Light

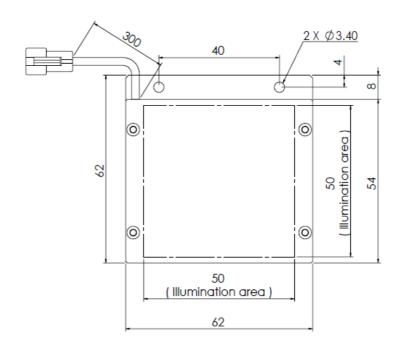
FLDL-TP-Si51

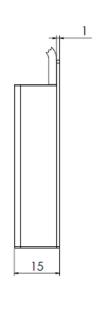
Lighting Picture

Lighting Dimension



Mechanical Information	
Casing Material	Aluminium + Diffuser
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	70g
Lighting Dimension, WxLxH	62.0 x 62.0 x 15.0 mm
IP Rating	IP 50





Unit in mm







Optical Information					
Led Color	RED (R/R24)	InfraRed (IR24)	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	626nm	850nm	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	72/80	90	90	90	90
Illumination Area	50 x 50 mm				
Led Package	SMD				
Eye Safety (EN 62471:2008)	Exempt Group				

Electrical Information	R	R24	G/B/W				
Lighting Supply Voltage	12V ± 2%	24V ± 2%					
(constant voltage mode)							
Supply Ripple Voltage		≤ Vs ± 5%					
Reverse Battery Protection		YES					
Typical Lighting Forward voltage, Vf	8.8 V	22.0 V	21.0 V	18.0 V			
(for zero internal resistor value)	0.0 V	22.0 V	21.0 V	16.0 V			
Continuous Current	0.72A (MAX)	0.32A (MAX) 0.15A (MAX) 0.30A (MAX)					
Power Consumption	8.64 W	7.68 W	3.60 W	7.20 W			
Lighting casing temperature,	65°C	65°C	65°C	65°C			
Operating after 60 minutes	65°C	05-0	65-0	65 C			

Strobe Mode Specification	R	R24	G/B/W					
Max. Lighting Supply Voltage	Pulsing at 12VDC to	Pulsing at 24VDC to 48VDC,						
(Constant voltage power supply)	24VDC,	0-10% Duty Cycle						
	0-10% Duty Cycle	Recommended at 36VDC						
	Recommended at 15VDC							
Pulse Current, (Max. 10msec) (Constant current power supply)	1.80 A (MAX)	0.80A (MAX) 0.38A (MAX) 0.75A (MAX)						
Max. Trigger Pulse Duration, msec	10 msec							
Duty Cycle	0 - 10%							

Ordering Option	
FLDL-TP-Si51-R/R24/IR24/G/B/W	With resistor to limit the current
	(Use in both constant voltage/ current power supply)
FLDL-TP-Si51-R/R24/IR24/G/B/W-0	Internal resistor value= zero ohms
1 LDL-17-0101-11/11/24/111/24/0/D/W-0	(only use in constant current power supply)







Connection	R			R24/IR24/G/B/W				
Connector Type (Default):	JST	JST SMR-02V		b	JST	SMR-03V		
	Pin	Sigr	nal	Cable Color	Pin	Sig	nal	Cable Color
	1	LED) +	Black/White	1	LEC) +	Black/White
	2	LED -		Black	2	N.C.		
					3	LE	D -	Black
Cable Length out from lighting:	300 mm							

Additional Information	R/R24/IR24/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	50,000 hours
(at 25°C ambient temperature)	
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







<u>Disclaimer</u>

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