



High Brightness Diffuse Back Light

SIDL-TP-Si70X40

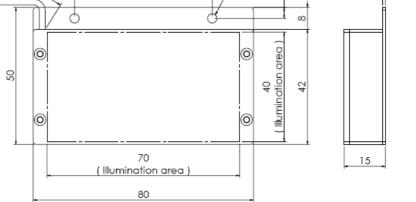
Lighting Picture



Mechanical Information	
Casing Material	Aluminium + Acrylic
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	64 g
Lighting Dimension WxLxH	80.0 x 50.0 x 15.0 mm
IP Rating	N/A

2 X Ø 3.40

Lighting Dimension



Unit in mm



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Optical Information						
Led Color	RED (R/R24)	GREEN (G)	InfraRed (IR24)	BLUE (B)	WHITE (W)	
Wavelength	626nm	525nm	875nm	470nm	xy=(0.31,0.32)	
Illumination (number of LED)	50/50	49	48	49	49	
Illumination Area	70 x 40 mm					
Led Package	SMD					
Eye Safety (EN 62471:2008)	Exempt Group					

Electrical Information	R	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)	10.5 V	20.0 V	21.0 V	21.0 V			
Continuous Current	0.40A (MAX)	0.20A (MAX)	0.07A (MAX)	0.14A (MAX)			
Power Consumption	4.80 W	4.80 W	1.80W	3.36 W			
Lighting casing temperature, Operating after 60 minutes	55°C	55°C	42°C	42°C			

Strobe Mode Specification	R	R24 IR24		G/B/W	
Max. Lighting Supply Voltage	Pulsing at 12VDC to 24VDC, Pulsing at 24VDC to 48VDC,				
(Constant voltage power supply)	0-10% Duty Cycle 0-10% Duty Cycle				
	Recommended at 15VDC	Re	ecommended at 36VDC		
Pulse Current, (Max. 10msec)	1.00A (MAX)	0.50A (MAX)	0.18A (MAX)	0.35A (MAX)	
(Constant current power supply)		0.50A (IMAA)	0.18A (IVIAA)	0.35A (IVIAA)	
Max. Trigger Pulse Duration, msec	10 msec				
Duty Cycle	0 - 10%				

Ordering Option	
FLDL-TP-Si70X40-R/R24/IR24/G/B/W	With resistor to limit the current
FLDL-1F-31/0/40-R/R24/1R24/G/D/W	(Use in both constant voltage/ current power supply)
FLDL-TP-Si70X40-R/R24/IR24/G/B/W-0	Internal resistor value= zero ohms
FLDL-1F-31/0X40-R/R24/1R24/G/D/W-0	(only use in constant current power supply)







Connection	R			R24/IR24/G/B/W				
Connector Type (Default):	JST SMR-02V				JST SM	MR-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	R/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 9001:2015	MY05916			

Application	
Optimal Working Distance	5-100 mm





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