



Diffuse Back Light

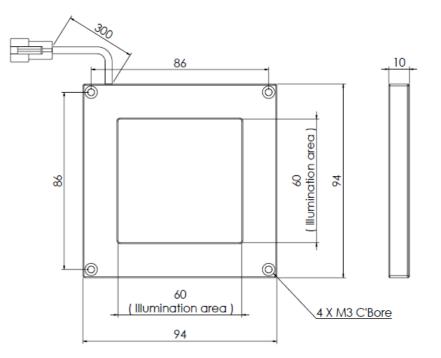


Lighting Picture

Lighting Dimension



Mechanical Information	
Casing Material	Aluminium + Arcylic
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	160 g
Lighting Dimension, WxLxH	94.0 x 94.0 x 10.0 mm
IP Rating	IP50



All unit in mm







Optical Information						
Led Color	RED (R/R24)	InfraRed (IR24)	GREEN (G)	BLUE (B)	WHITE (W)	
Wavelength	640nm	850nm	525nm	470nm	xy=(0.31,0.32)	
Illumination (number of LED)	64	64	56	56	56	
Illumination Area		60 x 60 mm				
Led Package	SMD					
Eye Safety (EN 62471:2008)		Exempt Group				

Electrical Information	R	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)	8.8 V	17.6 V	22.4 V	21.0 V			
Continuous Current	0.64A (MAX)	0.32A (MAX)	0.10A (MAX)	0.24A (MAX)			
Power Consumption	7.68 W	7.68 W	2.40 W	5.76 W			
Lighting casing temperature, Operating after 60 minutes	60°C	60°C	39°C	62°C			

Strobe Mode Specification	R	R24 IR24 0		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 Recommended at 15VDC	0-10% Duty Cycle Recommended at 36VDC					
Pulse Current, (Max. 10msec) (Constant current power supply)	1.60A (MAX)	1.60A (MAX) 0.80A (MAX) 0.25A (MAX) 0.60A (MAX)					
Max. Trigger Pulse Duration, msec	10 msec						
Duty Cycle	0 - 10%						

Ordering Option	
	With resistor to limit the current
FLFL-Si60-R/R24/IR24/G/B/W	(Use in both constant voltage/ current power supply)
	Internal resistor value= zero ohms
FLFL-Si60-R/R24/IR24/G/B/W-0	(only use in constant current power supply)







Connection	R			R24/IR24/G/B/W				
Connector Type (Default):	JST	ST SMR-02V		JST SMR-03V		7		
	Pin	Sigi	nal	Cable Color	Pin	Sig	nal	Cable Color
	1	LED) +	Black/White	1	LEI) +	Black/White
	2	LED - Black		2	N.C.			
					3	LE	D -	Black
Cable Length out from lighting:	300 mm							

Additional Information	R/R24/G/B/W/IR24			
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	10-100 mm

X FLFL-Si60





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