



### Diffuse Back Light

# FLFL-Si70x40N

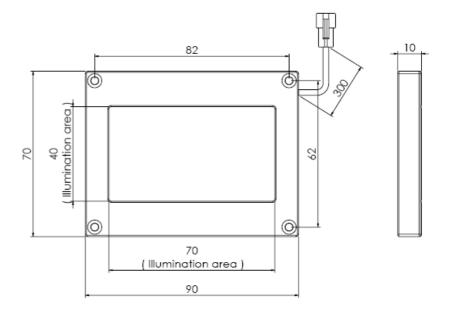
### **Lighting Picture**







Mechanical Information	
Casing Material	Aluminium + Acrylic
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	110g
Lighting Dimension WxLxH	70.0 x 90.0 x 10.0 mm
IP Rating	N/A



Unit in mm







Optical Information					
Led Color	RED (R/R24)	INFRARED (IR)	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	626nm	850nm	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	32	42	42	42	42
Illumination Area			70 x 40 mm		
Led Package			SMD		
Eye Safety (EN 62471:2008)			Exempt Group		

Electrical Information	R	IR	R24	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)	8.8 V	9.8 V	17.6 V	21.0 V		
Continuous Current	0.32A (MAX) 0.15A (MAX)		0.16A (MAX)	0.18A (MAX)		
Power Consumption	3.84 W	1.80 W	3.84 W	4.32 W		
Lighting casing temperature, Operating after 60 minutes	42°C	38°C	42°C	46°C		

Strobe Mode Specification	R	lR IR	R24	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		
	Recommend	led at 15VDC	Recommend	ed at 36VDC		
Pulse Current, (Max. 10msec)	0.80A (MAX)	0.38A (MAX)	0.40A (MAX)	0.45A (MAX)		
(Constant current power supply)	U.OUA (IVIAA)	U.SOA (IVIAA)	0.40A (IVIAX)	0.45A (IVIAX)		
Max. Trigger Pulse Duration, msec	10 msec					
Duty Cycle	0 - 10%					

Ordering Option				
FLFL-Si70x40N-R/R24/IR/G/B/W	With resistor to limit the current			
1 L1 L-31/ 0.44014-11/11/24/11// G/B/W	(Use in both constant voltage/ current power supply)			
	Internal resistor value= zero ohms			
FLFL-Si70x40N-R/R24/IR/G/B/W-0	(only use in constant current power supply)			







Connection	R/IR				R24/0	G/B/W
Connector Type (Default):	JST SMR-02V			JST	SMR-03V	
	Pin	Signal	Cable Co	olor Pin	Signa	I Cable Color
	1	LED +	Black/Wh	nite 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/IR
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	10-100 mm





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