



## Diffuse Back Light

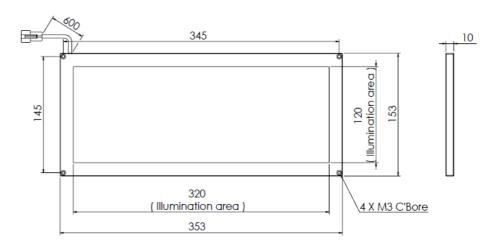
# [ ] FLFL-Si320X120

## **Lighting Picture**



Mechanical Information	
Casing Material	Aluminium + Arcylic
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	800 g
Lighting Dimension, WxLxH	153.0 x 353.0 x 10.0 mm
IP Rating	IP50

### **Lighting Dimension**



All unit in mm





Optical Information					
Led Color	RED (R24)	InfraRed (IR)	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	626nm	850nm	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	240	252	252	252	252
Illumination Area			320 x 120 mm		
Led Package			SMD		
Eye Safety (EN 62471:2008)			Exempt Group		

Electrical Information	IR	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)	9.8 V	22.0 V	21.0 V		
Continuous Current	0.90A (MAX)	0.96A (MAX)	1.08A (MAX)		
Power Consumption	21.60 W	23.04 W	25.92 W		
Lighting casing temperature, Operating after 60 minutes	45°C	52°C	50°C		

Strobe Mode Specification	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 Recommended at	0-10% Duty Cycle			
	15VDC	Recommend	ed at 36VDC		
Pulse Current, (Max. 10msec)	2.25A (MAX)	2.40A (MAX)	2.70A (MAX)		
(Constant current power supply)	2.23A (WAX)	2.40A (IVIAA)	Z.TOA (IVIAX)		
Max. Trigger Pulse Duration, msec		10 msec			
Duty Cycle		0 - 10%			

Ordering Option	
FLFL-Si320X120-R24/IR/G/B/W	With resistor to limit the current
FLFL-31320X120-R24/IR/G/D/W	(Use in both constant voltage/ current power supply)
FLFL-Si320X120-R24/IR/G/B/W-0	Internal resistor value= zero ohms
FLFL-31320X120-R24/1R/G/B/W-0	(only use in constant current power supply)





Connection	IR				R24/G/B/W			
Connector Type (Default):	JST	SMR-02V		'e	JST SMR-03V			
	Pin	Sign	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:	600 mm							

Additional Information	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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