

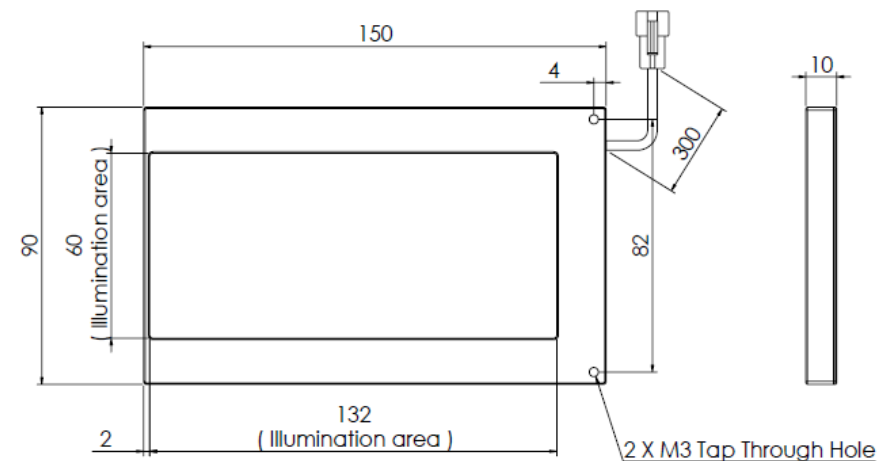
Diffuse Back Light

FLFL-Si132X60-3S

Lighting Picture



Lighting Dimension



Unit in mm

Mechanical Information	
Casing Material	Aluminium + Acrylic
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	215 g
Lighting Dimension, WxLxH	90.0 x 150.0 x 10.0 mm
IP Rating	IP50



FLFL-Si132x60-3S

Asia Office: www.falcon-illumination.com, Europe Office: www.falcon-illumination.de
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Optical Information				
Led Color	INFRARED (IR24)	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	850nm	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	105	84	84	84
Illumination Area	132 x 60 mm			
Led Package	SMD			
Eye Safety (EN 62471:2008)	Exempt Group			

Electrical Information		IR24	G/B/W
Lighting Supply Voltage (constant voltage mode)	24V $\pm$ 2%		
Supply Ripple Voltage	$\leq V_s \pm 5\%$		
Reverse Battery Protection	YES		
Lighting Forward voltage, (for zero internal resistor value)	21.0 V	21.0 V	
Continuous Current	0.18A (MAX)	0.36A (MAX)	
Power Consumption	4.20 W	8.64 W	
Lighting casing temperature, Operating after 60 minutes	41°C	48°C	

Strobe Mode Specification	IR24	G/B/W
Max. Lighting Supply Voltage (Constant voltage power supply)	Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle Recommended at 36VDC	
Pulse Current, (Max. 10msec) (Constant current power supply)	0.45A (MAX)	0.90A (MAX)
Max. Trigger Pulse Duration, msec	10 msec	
Duty Cycle	0 - 10%	

Ordering Option	
FLFL-Si132X60-3S-IR24/G/B/W	With resistor to limit the current (Use in both constant voltage/ current power supply)
FLFL-Si132X60-3S-IR24/G/B/W-0	Internal resistor value= zero ohms (only use in constant current power supply)



Connection	IR24/G/B/W			
Connector Type (Default):	JST SMR-03V			
	Pin	Signal	Cable Color	
	1	LED +	Black/White	
	2	N.C.	---	
	3	LED -	Black	
Cable Length out from lighting:	300 mm			

Additional Information	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 (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	5-100 mm



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