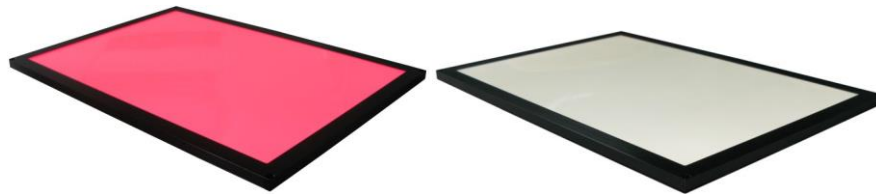


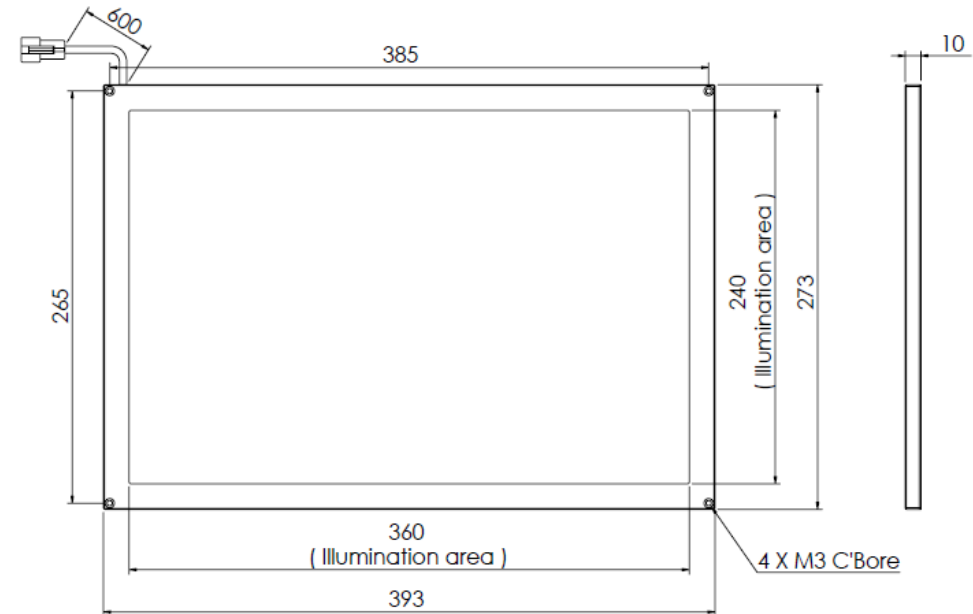
Diffuse Back Light

[Falcon Logo] FLFL-Si360X240

Lighting Picture



Lighting Dimension



Mechanical Information	
Casing Material	Aluminium + Acrylic
Weight	1525g
Operating Temperature	0°C to 40°C, Humidity 20%-85%
Storage Temperature	-20°C to 60°C, Humidity 20%-85%
Lighting Dimension W x L x H	393.0 x 273.0 x 10.0 mm
IP Rating	IP50

All unit in mm





Optical Information					
Led Color	RED (R24)	InfraRed (IR/IR24)	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	626nm	850nm	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	330	350/360	350	350	350
Illumination Area	360 x 240 mm				
Led Package	SMD				
Eye Safety (EN 62471:2008)	Exempt Group				
Optimal Working Distance	10 – 100mm				

Continuous Mode	Voltage Drive (With resistor)				Current Drive (Without resistor)			
	IR	R24	IR24	G/B/W	IR	R24	IR24	G/B/W
Supply Voltage To Controller	12VDC ± 2%	24VDC ± 2%			11VDC ± 2%	23VDC ± 2%	22VDC ± 2%	22VDC ± 2%
Lighting Forward Voltage, Vf	9.8V	22.0V	21.0V	21.0V	9.8V	22.0V	21.0V	21.0V
Max. Current	1.25A (MAX)	1.20A (MAX)	0.60A (MAX)	1.50A (MAX)	1.25A (MAX)	1.20A (MAX)	0.60A (MAX)	1.50A (MAX)
Max. Power	15.00W	28.80W	14.40W	36.00W	13.75W	27.60W	13.20W	33.00W
Lighting casing temperature operating after 60 minutes	36°C	56°C	36°C	50°C	36°C	56°C	36°C	50°C

Strobe Mode	Voltage Drive (With resistor)				Current Drive (Without resistor)				
	IR	R24	IR24	G/B/W	IR	R24	IR24	G/B/W	
Max. Lighting Supply Voltage	Pulsing at 12VDC to 24VDC, Recommended at 18VDC	Pulsing at 24VDC to 48VDC, Recommended at 36VDC			Pulsing at 11VDC	Pulsing at 23VDC	Pulsing at 22VDC		
Max. Current	3.13A (MAX)	3.00A (MAX)	1.50A (MAX)	3.75A (MAX)	3.13A (MAX)	3.00A (MAX)	1.50A (MAX)	3.75A (MAX)	
Max. Trigger Pulse Duration	10 msec								
Duty Cycle	< 10%								



Ordering Part Number	Controller Type	Description
FLFL-Si360X240-IR/IR24/R24/G/B/W	Voltage Drive	With Resistor (Use in both constant voltage/ current power supply)
FLFL-Si360X240-IR/IR24/R24/G/B/W-0	Current Drive	Without Resistor (0 Ohm) (Only use in constant current power supply)

Connection	IR				R24/IR24/G/B/W			
Connector Type (Default):	JST SMR-02V				JST SMR-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:	600 mm							

Additional Information	Details
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
Supply Ripple Voltage	≤ Vs ± 5%
Reverse Battery Protection	YES
Cooling Method	Natural air-cooling
Additional Cooling Method	Attached to machine part for better heat dissipation
Intensity Controller Selection	PSA-Series, PSD-Series, LIC-Series
CE Conformity	YES
ISO 9001:2015	MY11/00845



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