

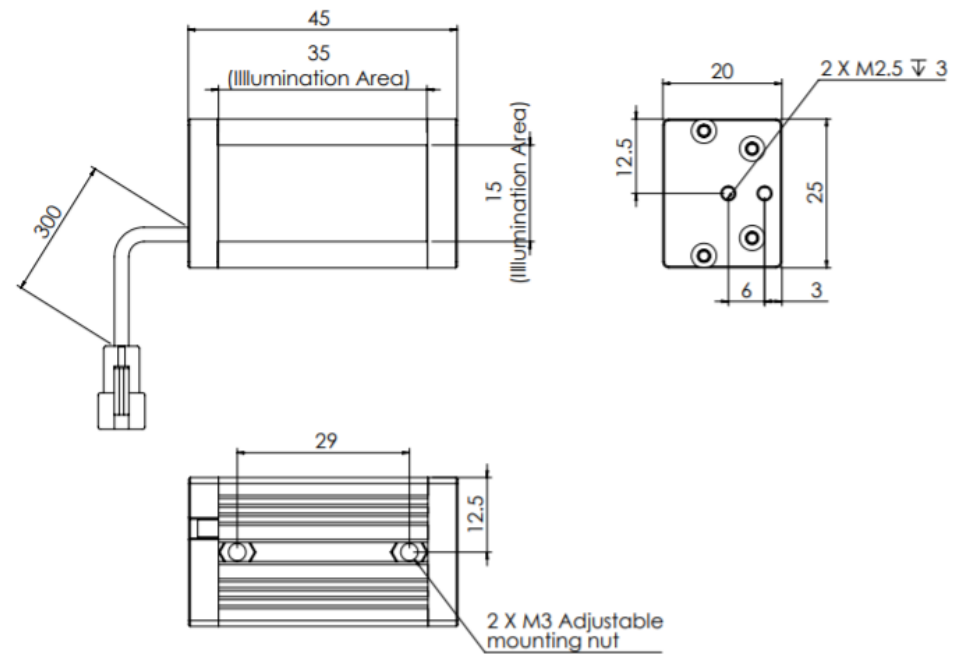
Bar Light

F2DL-Si35x15

Lighting Picture



Lighting Dimension



Mechanical Information	
Casing Material	Aluminium + Diffuser (Optional)
Weight	50g
Operating Temperature	0°C to 40°C , Humidity 20%-85%
Storage Temperature	-20°C to 60°C, Humidity 20%-85%
Lighting Dimension, WxLxH	25.0 x 45.0 x 20.0 mm
IP Rating	IP40

Unit in mm



F2DL-Si35x15

Asia Office: www.falconmv.com, Europe Office: www.falcon-illumination.de
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Led Colour	RED(R24)	GREEN(G)	BLUE(B)	WHITE(W)
Optical Information				
Wavelength / Color temperature	626nm	525nm	470nm	xy=(0.31,0.32)
Illumination (Number of LED)	20	21		
Illumination Area	35 x 15 mm			
Led Package	SMD			
Eye Safety (EN 62471:2008)	Exempt Group			
Optimal Working Distance	10-100 mm			

Continuous Mode	Voltage Drive (With resistor)		Current Drive (Without resistor)	
	R24	G/B/W	R24	G/B/W
Max. Lighting Supply Voltage	24VDC \pm 2%		21VDC \pm 2%	22VDC \pm 2%
Typical Lighting Forward Voltage (Vf)	20.0V	21.0V	20.0	21.0V
Max. Current	0.08A (MAX)	0.06A (MAX)	0.08A (MAX)	0.06A (MAX)
Max. Power	1.92 W	1.44 W	16.80 W	13.20 W

Strobe Mode	Voltage Drive		Current Drive	
	R24	G/B/W	R24	G/B/W
Max. Lighting Supply Voltage	Pulsing at 24VDC to 48VDC, Recommended at 36VDC		Pulsing at 12VDC to 24VDC, Recommended at 15VDC	
Max. Current	0.20A (MAX)	0.15A (MAX)	0.20A (MAX)	0.15A (MAX)
Max. Trigger Pulse Duration	10 msec			
Duty Cycle	< 10%			

Ordering Part Number	Controller Type	Description
F2DL-Si35x15-R24G/B/W	Voltage Drive	With Resistor (Use in both constant voltage/ current power supply)
F2DL-Si35x15-R24/G/B/W-0	Current Drive	Without Resistor (0 Ohm) (Only use in constant current power supply)



Connection		R24/G/B/W (Voltage & Current drive)		
Connector Type (Default):	Pin	Signal	Cable Color	
	1	LED +	Black/White	
	2	N.C.	---	
	3	LED -	Black	
Cable Length out from lighting:		300 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	$\leq V_s \pm 5\%$
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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