

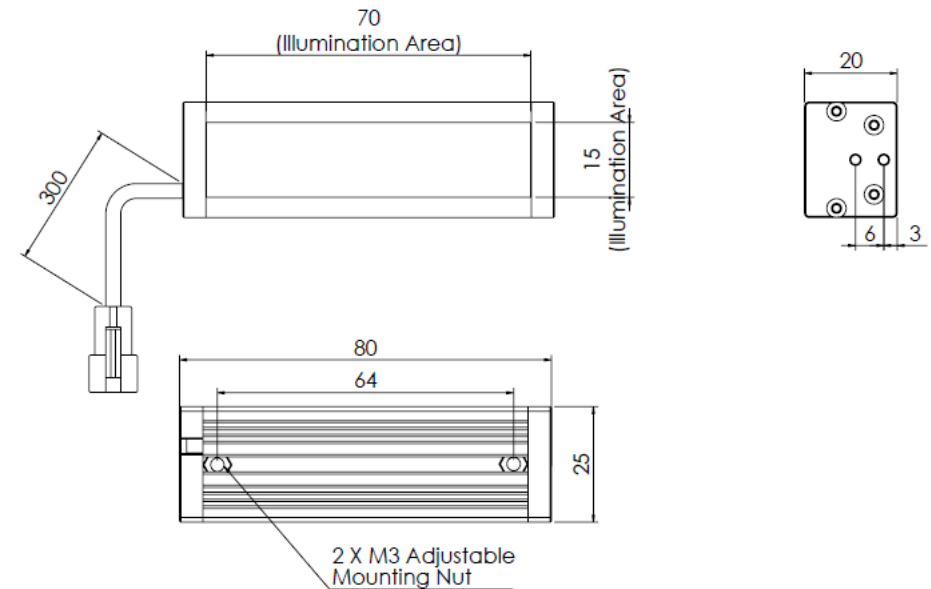
## Bar Light



### F2DL-Si70x15

Lighting Picture

Lighting Dimension



Unit in mm

#### Mechanical Information

Casing Material	Aluminium + Diffuser (Optional)
Weight	79g
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 80.0 x 20.0mm
IP Rating	IP40



F2DL-Si70x15

Asia Office: [www.falconmv.com](http://www.falconmv.com), Europe Office: [www.falcon-illumination.de](http://www.falcon-illumination.de)  
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Led Colour	RED (R24)	GREEN (G)	BLUE (B)	WHITE (W)
Optical Information				
Wavelength / Color temperature	625nm	525nm	470nm	xy=(0.31,0.32)
Illumination (Number of LED)	40	42		
Illumination Area	70x15mm			
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
Supply Voltage To Controller	24VDC $\pm$ 2%			21VDC $\pm$ 2%	22VDC $\pm$ 2%	
Lighting Forward Voltage, Vf	20.0 V	21.0 V	19.5 – 22V	20.0 V	21.0 V	19.5 – 22V
Max. Current	0.16A (MAX)	0.12A (MAX)		0.16A (MAX)	0.12A (MAX)	
Max. Power	3.84W	2.88W		3.36W	2.64W	

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 21VDC	Pulsing at 22VDC
Max. Current	0.40A (MAX)	0.30A (MAX)	0.40A (MAX)	0.30A (MAX)
Max. Trigger Pulse Duration	10 msec			
Duty Cycle	< 10%			

Ordering Part Number	Controller Type	Description
F2DL-Si70x15-R24/G/B/W	Voltage Drive	With Resistor (Use in both constant voltage/ current power supply)
F2DL-Si70x15-R24/G/B/W-0	Current Drive	Without Resistor (0 Ohm) (Only use in constant current power supply)



Connection		(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	50,000 hours			
Lighting drop to 50% intensity (at 25°C ambient temperature)				
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	MY21/1811030613			



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