

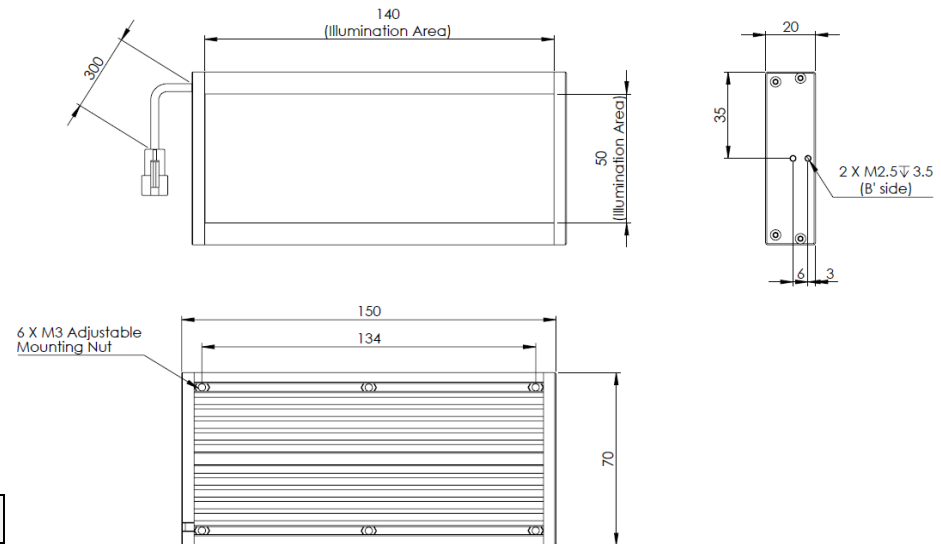
Bar Light

F2DL-Si140x50

Lighting Picture



Lighting Dimension



Unit in mm

Mechanical Information	
Casing Material	Aluminium + Diffuser (Optional)
Weight	331g
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	70.0 x 150.0 x 20.0 mm
IP Rating	IP40



Led Colour	GREEN(G)	BLUE(B)	WHITE(W)
Optical Information			
Wavelength / Color temperature	525nm	470nm	xy= (0.31,0.32)
Illumination (Number of LED)	280		
Illumination Area	140 x 50 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)
	G/B/W	G/B/W
Max. Lighting Supply Voltage	24VDC ± 2%	22 VDC ± 2%
Typical Lighting Forward Voltage (Vf)	21.0 V	21.0 V
Max. Current	0.80A (MAX)	0.80A (MAX)
Max. Power	19.20 W	17.60 W

Strobe Mode Specification	Voltage Drive (With resistor)	Current Drive (Without resistor)
	G/B/W	G/B/W
Max. Lighting Supply Voltage	Pulsing at 24VDC to 48VDC, Recommended at 36VDC	Pulsing at 22VDC
Max. Current	2.00A (MAX)	2.00A (MAX)
Max. Trigger Pulse Duration	10 msec	
Duty Cycle	< 10%	

Ordering Part Number	Controller Type	Description
F2DL-Si140x50-G/B/W	Voltage Drive	With resistor to limit the current (Use in both constant voltage/ current power supply)
F2DL-Si140x50-G/B/W-0	Current Drive	Internal resistor value= zero ohms (only use in constant current power supply)



Connection	G/B/W (Voltage & Current drive)		
Connector Type (Default):	JST SMR-03V (Male)		
	Pin	Signal	Cable Color
	1	LED +	Black/White
	2	N.C.	---
	3	LED -	Black
Cable Length	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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