

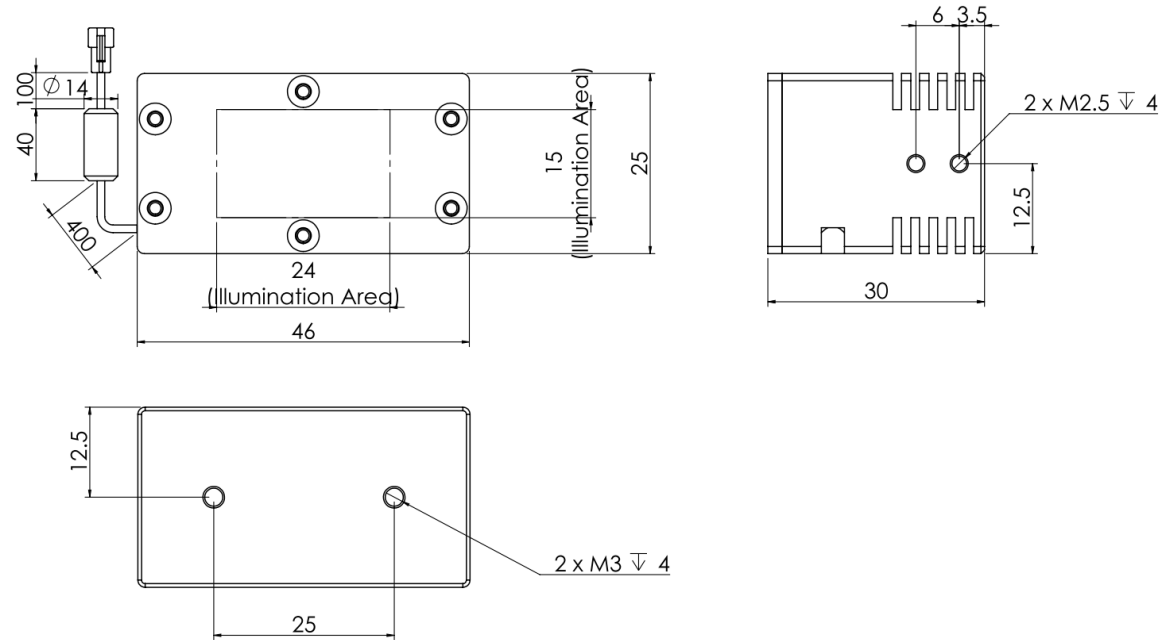
# High Brightness Bar Light

## **FHDL-Si24X15N**

Lighting Picture



Lighting Dimension



Mechanical Information	
Casing Material	Aluminium + Diffuser
Weight	90 g
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	25.0 x 46.0 x 30.0 mm
IP Rating	IP40

Unit in mm  
\* Lighting include diffuser



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)	8	7	7	7
Illumination Area	24 x 15 mm			
Led Package	High Power-SMD			
Eye Safety (EN 62471:2008)	RG-1 (Low Risk)	RG-2 (Moderate Risk)		Exempt Group
Optimal Working Distance	0-100 mm			

Continuous Mode	Voltage Drive (With resistor)		Current Drive (Without resistor)	
	IR24	W/G/B	IR24	W/G/B
Supply Voltage To Controller	24VDC ± 2%		24VDC ± 2%	22VDC ± 2%
Lighting Forward Voltage, Vf	23.2 V	21 V	23.2 V	21 V
Max. Current	0.15A (MAX)	0.15A (MAX)	0.15A (MAX)	0.15A (MAX)
Max. Power	3.60W	3.60W	3.60W	3.60W

Strobe Mode	Voltage Drive (With resistor)		Current Drive (Without resistor)	
	IR24	W/G/B	IR24	W/G/B
Max. Lighting Supply Voltage	Pulsing at 24VDC to 48VDC, Recommended at 36VDC		Pulsing at 24VDC	Pulsing at 22VDC
Max. Current	0.35A – 0.88A (MAX)		0.35A – 0.88A (MAX)	
Max. Trigger Pulse Duration	10 msec			
Duty Cycle	< 10%			

Ordering Part Number	Controller Type	Description
FHDL-Si24X15N-W/G/B/IR24	Voltage Drive	With Resistor (Use in both constant voltage/ current power supply)
FHDL-Si24X15N-W/G/B/IR24-0	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	
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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