

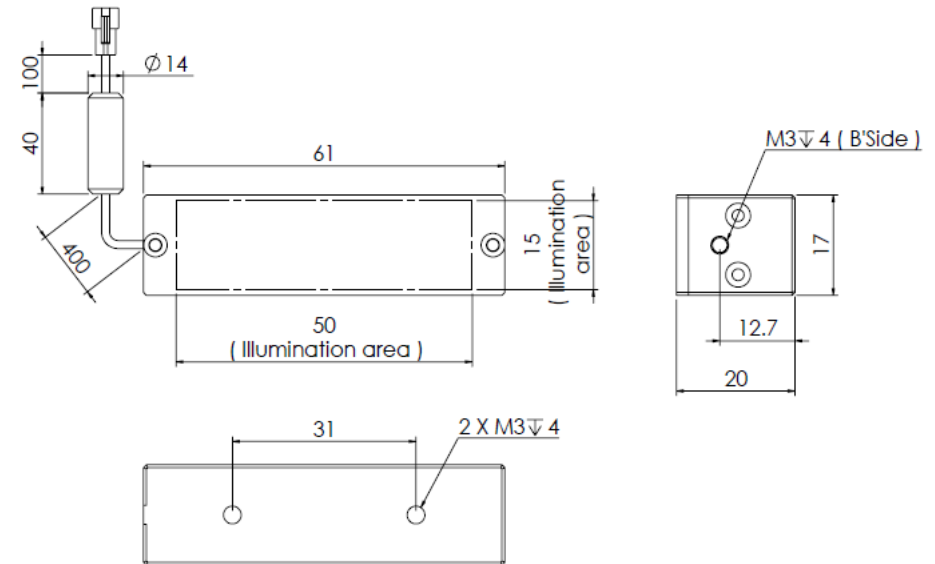
High Brightness Bar Light

FHDL-Si56X15N

Lighting Picture



Lighting Dimension



Mechanical Information	
Casing Material	Aluminium + Diffuser
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	33 g
Lighting Dimension, WxLxH	17.0 x 61.0 x 20.0 mm
IP Rating	N/A

Unit in mm




Optical Information			
Led Color	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	14	14	14
Illumination Area	50.0 x 15.0mm		
Led Package	SMD		
Eye Safety (EN 62471:2008)	Exempt Group		

Electrical Information		G/B/W
Lighting Supply Voltage (constant voltage mode)		24V ± 2%
Supply Ripple Voltage		≤ Vs ± 5%
Reverse Battery Protection		YES
Lighting Forward voltage, (for zero internal resistor value)		21.0V
Continuous Current		0.19 A
Power Consumption		4.56 W
Lighting casing temperature, Operating after 60 minutes		60°C

Strobe Mode Specification		G/B/W
Max. Lighting Supply Voltage (Constant voltage power supply)		Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle Recommended at 36VDC
Pulse Current, (Max. 10msec) (Constant current power supply)		0.48 A (MAX)
Max. Trigger Pulse Duration, msec		10 msec
Duty Cycle		0 - 10%

Ordering Option	
FHDL-Si56X15N-G/B/W	With resistor to limit the current (Use in both constant voltage/ current power supply)
FHDL-Si56X15N-G/B/W-0	Internal resistor value= zero ohms (only use in constant current power supply)



Connection		G/B/W	
Connector Type (Default):	JST SMR-03V		
	Pin	Signal	Cable Color
	1	LED +	Black/White
	2	N.C.	---
	3	LED -	Black
Cable Length out from lighting:	540 mm		

Additional Information		G/B/W	
Additional Cooling Method	Attached to machine part for better heat dissipation		
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		
Intensity Controller Selection	PSA-Series, PSD-Series, LIC-Series		
CE Conformity	YES		
RoHS Compliance	YES		
ISO 9001:2008	SG11/03751		

Application	
Optimal Working Distance	5-100mm
Optimize the lighting Life Span	It is recommended to turn ON the lighting only during image capturing or conjunction with camera exposure time. This will enable the lighting to work with longer life span and prevent overheating and resulting damage to the led.



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