

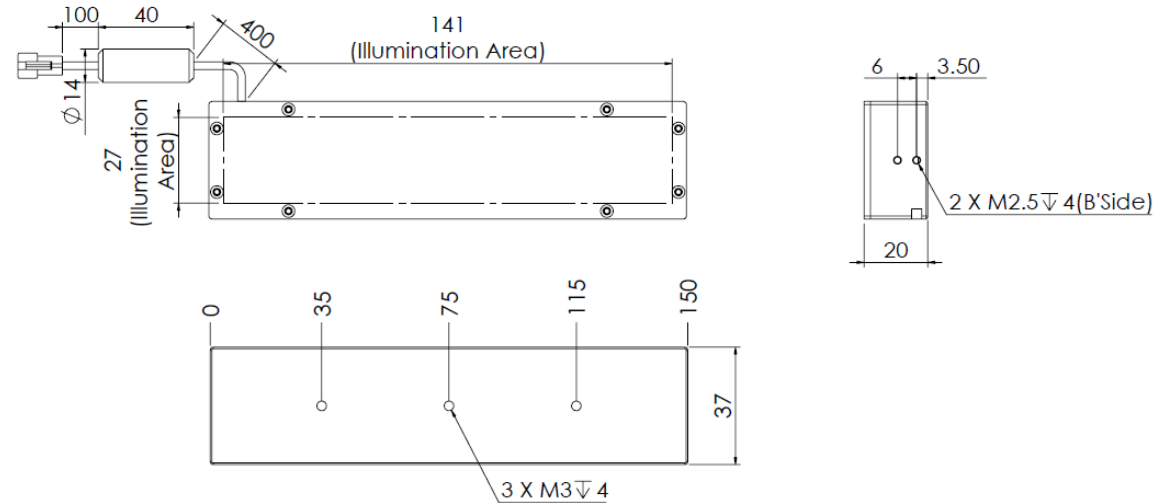
High Brightness Bar Light

FHDL-Si150X27

Lighting Picture



Lighting Dimension



Mechanical Information	
Casing Material	Aluminium + Diffuser
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	175g
Lighting Dimension, WxLxH	37.0 x 150.0 x 20.0 mm
IP Rating	N/A

Unit in mm


Optical Information				
Led Color	RED (R18)	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	630nm	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	80	77	77	77
Illumination Area	141 x 27 mm			
Led Package	SMD			
Eye Safety (EN 62471:2008)	RG-2 (Moderate Risk): Caution. Do not stare at exposed lamp in operation. May be harmful to eyes.			

Electrical Information		R18	G/B/W
Lighting Supply Voltage (constant voltage mode)		20V ± 2%	24V ± 2%
Supply Ripple Voltage		18.5V	21.0V
Reverse Battery Protection		YES	
Typical Lighting Forward voltage, (for zero internal resistor value)		≤ Vs ± 5%	
Continuous Current		0.60A(MAX)	1.10A(MAX)
Power Consumption		10.80 W	26.40 W
Lighting casing temperature, Operating after 60 minutes		>60°C	49°C

Strobe Mode Specification		R18	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)		1.50A (MAX)	3.85A (MAX)
Max. Trigger Pulse Duration, msec		10 msec	
Duty Cycle		0 to 10%	

Ordering Option	
FHDL-Si150x27-R18/G/B/W	With resistor to limit the current (Use in both constant voltage/ current power supply)
FHDL-Si150x27-R18/G/B/W-0	Internal resistor value= zero ohms (only use in constant current power supply)



Connection		R18/G/B/W		
Connector Type (Default):	JST SMR-03V			
Cable Length out from lighting:	540mm			
Pin Configuration:	Pin	Signal	Cable Color	
	1	LED +	Black/White	
	2	N.C.	---	
	3	LED -	Black	

Additional Information		R18/G/B/W
Additional Cooling Method	Attached to machine part for better heat dissipation	
Life span in continuous mode	20,000 hours (drop to 50% intensity) at 25°C	
Life span in strobe light mode Lighting drop to 50% intensity (at 25°C ambient temperature)	Est. >50,000 hours (drop to 50% intensity) at 25°C	
Intensity Controller Selection	PSA-Series, PSD-Series, LIC-Series	
CE Conformity	YES	
RoHS Compliance	YES	
ISO 9001:2008	SG11/03751	

Application	
Optimal Working Distance	0-100mm
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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