

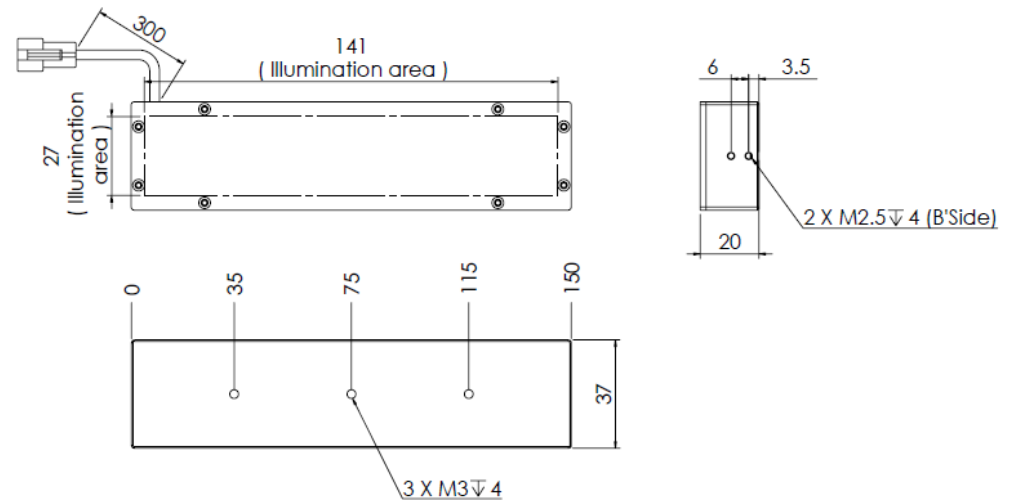
High Brightness Bar Light

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



FHDL-Si150x27-R24

Asia Office: www.falcon-illumination.com, Europe Office: www.falcon-illumination.de
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Optical Information	
Led Color	RED (R24)
Wavelength	630nm
Illumination (number of LED)	80
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	
	R24
Lighting Supply Voltage (constant voltage mode)	18V to 24V ± 2%
Supply Ripple Voltage	22.0V
Reverse Battery Protection	YES
Typical Lighting Forward voltage, (for zero internal resistor value)	≤ Vs ± 5%
Continuous Current	0.6 A (MAX)
Power Consumption	10.80 Watts
Lighting casing temperature, Operating after 60 minutes	60°C

Strobe Mode Specification	
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)	2.8A – 5.6A (MAX)
Max. Trigger Pulse Duration, msec	10 msec
Duty Cycle	0 to 10%

Ordering Option	
FHDL-Si150x27-R24	With resistor to limit the current (Use in both constant voltage/ current power supply)
FHDL-Si150x27-R24 -0	Internal resistor value= zero ohms (only use in constant current power supply)



Connection		R24	
Connector Type (Default):	JST SMR-03V		
Cable Length out from lighting:	300 mm		
Pin Configuration:	Pin	Signal	Cable Color
	1	LED +	Black/White
	2	N.C.	---
	3	LED -	Black
			

Additional Information		R24	
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	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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