

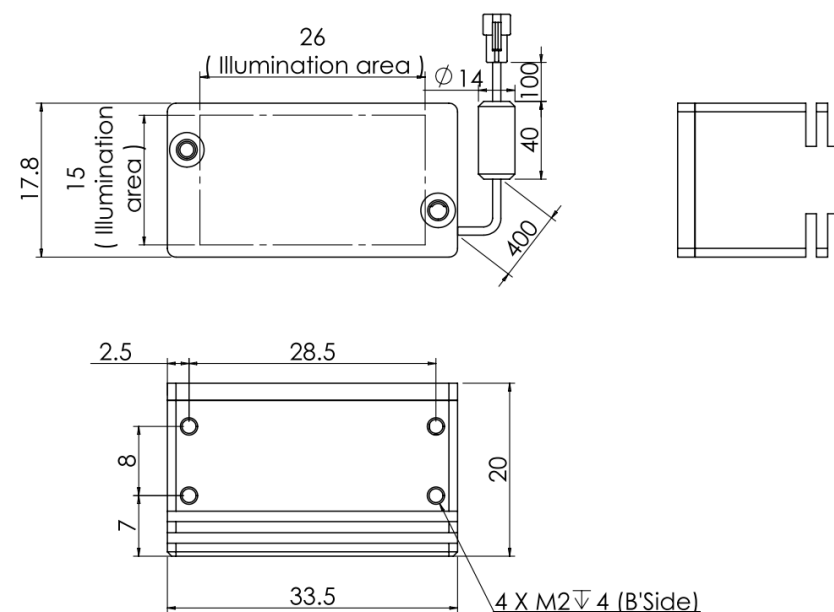
High Brightness Bar Light

FHDL-Si24X15

Lighting Picture



Lighting Dimension



Mechanical Information	
Casing Material	Aluminium
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	31 g
Lighting Dimension WxLxH	17.8 x 33.5 x 20.0 mm
IP Rating	N/A

Unit in mm



FHDL-Si24x15

Asia Office: www.falcon-illumination.com, Europe Office: www.falcon-illumination.de
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Optical Information					
Led Color	RED (R18/R24)	INFRARED (IR24)	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	626nm	850nm	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	6/10	7	6	6	6
Illumination Area	26 x 15 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	IR24	R24	G/B/W
Lighting Supply Voltage (constant voltage mode)	18V ± 2%	24V ± 2%		
Supply Ripple Voltage	≤ Vs ± 5%			
Reverse Battery Protection	YES			
Lighting Forward voltage, (for zero internal resistor value)	13.2 V	20.3 V	22.0 V	18.0 V
Continuous Current	0.15A (MAX)	0.15A (MAX)	0.15A (MAX)	0.15A (MAX)
Power Consumption	2.70 W	3.60 W	3.60 W	3.60 W
Lighting casing temperature, Operating after 60 minutes	>60°C	58°C	>60°C	>60°C

Strobe Mode Specification		R18	IR24	R24	G/B/W
Max. Lighting Supply Voltage (Constant voltage power supply)		Pulsing at 18VDC to 36VDC, 0-10% Duty Cycle Recommended at 27VDC	Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle Recommended at 36VDC		
Pulse Current, (Max. 10msec) (Constant current power supply)		0.38A (MAX)	0.38A (MAX)	0.38A (MAX)	0.38A (MAX)
Max. Trigger Pulse Duration, msec		10 msec			
Duty Cycle		0 - 10%			

Ordering Option	
FHDL-Si24X15-R18/R24/IR24/G/B/W	With resistor to limit the current (Use in both constant voltage/ current power supply)
FHDL-Si24X15-R18/R24/IR24/G/B/W-0	Internal resistor value= zero ohms (only use in constant current power supply)



Connection		R18/R24/IR24/G/B/W		
Connector Type (Default):		JST SMR-03V		
Pin Configuration:	Pin	Signal	Cable Color	
	1	LED +	Black/White	
	2	N.C.	---	
	3	LED -	Black	
Cable Length out from lighting:		540mm		

Additional Information	R18/R24/IR24/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	0-100 mm



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