

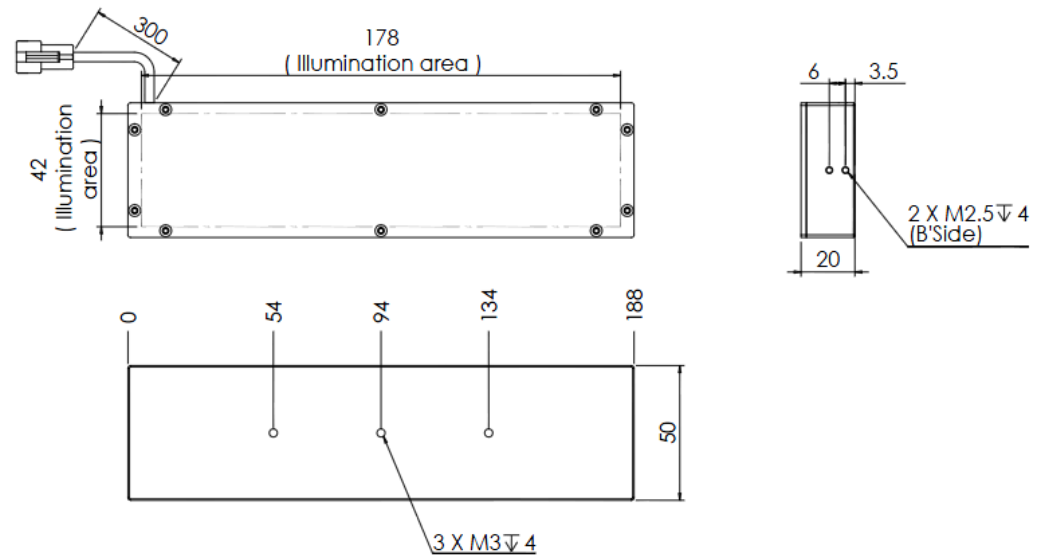
# Bar Light

## FLDL-i180X40

Lighting Picture



Lighting Dimension



Mechanical Information	
Casing Material	Aluminium
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	254g
Lighting Dimension WxLxH	50.0 x 188.0 x 20.0 mm
IP Rating	N/A

Unit in mm



FLDL-i180x40

Asia Office: [www.falcon-illumination.com](http://www.falcon-illumination.com), Europe Office: [www.falcon-illumination.de](http://www.falcon-illumination.de)  
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Optical Information					
Led Color	INFRARED (IR/IR24)	RED (SR24)	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	875nm	626nm	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	280	280	280	280	280
Illumination Area	178 x42 mm				
Led Package	T1 3mm				
Eye Safety (EN 62471:2008)	Exempt Group				

Electrical Information	IR	SR24	G/B/W	IR24
Lighting Supply Voltage (constant voltage mode)	12V ± 2%	24V ± 2%		
Supply Ripple Voltage	≤ Vs ± 5%			
Reverse Battery Protection	YES			
Lighting Forward voltage, (for zero internal resistor value)	9.8 V	20.0 V	21.0 V	18.9 V
Continuous Current	1.00A (MAX)	0.56A (MAX)	0.80A (MAX)	0.50A (MAX)
Power Consumption	12.00 W	13.44 W	19.20 W	12.00 W
Lighting casing temperature, Operating after 60 minutes	51°C	58°C	66°C	45°C

Strobe Mode Specification	IR	SR24	G/B/W	IR24
Max. Lighting Supply Voltage (Constant voltage power supply)	Pulsing at 12VDC to 24VDC, 0-10% Duty Cycle Recommended at 15VDC	Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle Recommended at 36VDC		
Pulse Current, (Max. 10msec) (Constant current power supply)	2.50A (MAX)	1.40A (MAX)	2.00A (MAX)	1.25A (MAX)
Max. Trigger Pulse Duration, msec	10 msec			
Duty Cycle	0 - 10%			

Ordering Option	
FLDL-i180x40-IR/SR24/IR24/G/B/W	With resistor to limit the current (Use in both constant voltage/ current power supply)
FLDL-i180x40-IR/SR24/IR24/G/B/W-0	Internal resistor value= zero ohms (only use in constant current power supply)



Connection		IR			SR24/IR24/G/B/W			
Connector Type (Default):		JST SMR-02V			JST SMR-03V			
	Pin	Signal	Cable Color		Pin	Signal	Cable Color	
	1	LED +	Black/White		1	LED +	Black/White	
	2	LED -	Black		2	N.C.	---	
					3	LED -	Black	
Cable Length out from lighting:		300mm						

Additional Information		IR/SR24/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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