

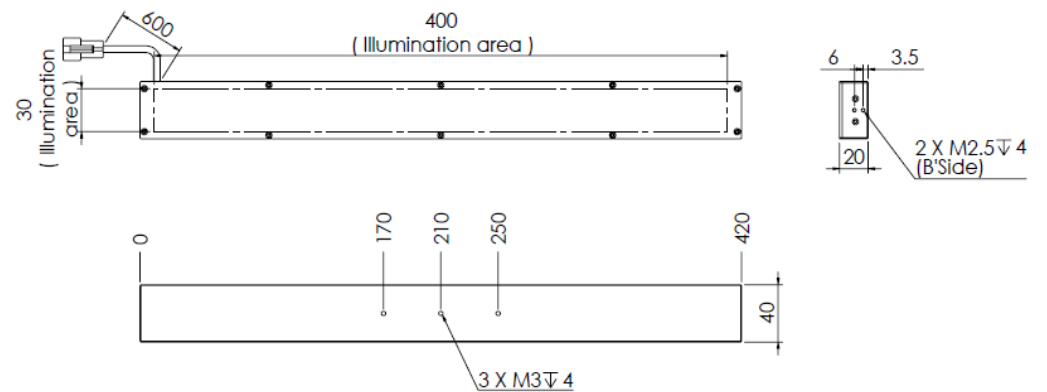
Bar Light

FLDL-i400x30

Lighting Picture



Lighting Dimension



Mechanical Information	
Casing Material	Aluminium + Diffuser
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	481 g
Lighting Dimension, WxLxH	420.0 x 40.0 x 20.0 mm
IP Rating	IP 30

Unit in mm



FLDL-i400x30

Asia Office: www.falcon-illumination.com, Europe Office: www.falcon-illumination.de
Form No: SOP-7.3.3 / Rev 1.5 / Date: 2015-02-11


Optical Information						
Led Color	RED (SR/SR24)	InfraRed (IR/IR24)	GREEN (G)	BLUE (B)	WHITE (W)	Ultra Violet (UV12-375/UV12-400/UV24-375/UV24-400)
Wavelength	626nm	875nm	525nm	470nm	xy=(0.31,0.32)	375nm / 400nm
Illumination (number of LED)	480	462/480	462	462	462	216
Illumination Area	400 x 30 mm					
Led Package	T1 3mm					T1 ¾ 5mm
Eye Safety (EN 62471:2008)	Exempt Group					RG3

Electrical Information	SR	IR	SR24	IR24	G/B/W	UV24-375 UV24-400
Lighting Supply Voltage (constant voltage mode)	12V ± 2%		24V ± 2%			
Supply Ripple Voltage	≤ Vs ± 5%					
Reverse Battery Protection	YES					
Typical Lighting Forward voltage, Vf (for zero internal resistor value)	10.0 V	9.8 V	20.0 V	21.0 V	21.0 V	21.0 V
Continuous Current	2.88A (MAX)	1.65A (MAX)	1.44A (MAX)	0.80A (MAX)	1.32A (MAX)	0.72A (MAX)
Power Consumption	34.56 W	19.80 W	34.56 W	19.20 W	31.68 W	17.28 W
Lighting casing temperature, Operating after 60 minutes	45°C	45°C	53°C	45°C	50°C	42°C

Strobe Mode Specification	SR	IR	SR24	IR24	G/B/W	UV24-375 UV24-400
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)	7.20A (MAX)	4.13A (MAX)	3.60A (MAX)	2.00A (MAX)	3.30A (MAX)	1.80A (MAX)
Max. Trigger Pulse Duration, msec	10 msec					
Duty Cycle	0 - 10%					

Ordering Option	
FLDL-i400x30-SR/SR24/IR/IR24/G/B/W/UV24-375/UV24-400	With resistor to limit the current (Use in both constant voltage/ current power supply)
FLDL-i400x30-SR/SR24/IR/IR24/G/B/W/UV24-375/UV24-400-0	Internal resistor value= zero ohms (only use in constant current power supply)



Connection		SR/IR			SR24/IR24/G/B/W/UV24-375/UV24-400		
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:		600 mm					

Additional Information		SR/SR24/G/B/W/IR/IR24		UV24-375/UV24-400	
Additional Cooling Method		Attached to machine part for better heat dissipation			
Life span in continuous mode		20,000 hours		5,000 hours	
Life span in strobe light mode Lighting drop to 50% intensity (at 25°C ambient temperature)		50,000 hours		10,000 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	10-100 mm



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