

Bar Light

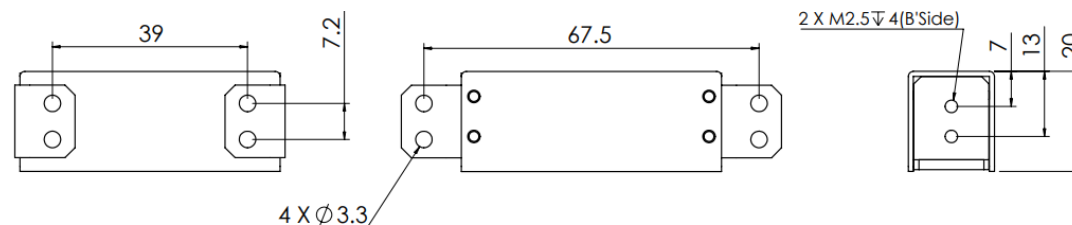


FLDL-Si44X15-RGB

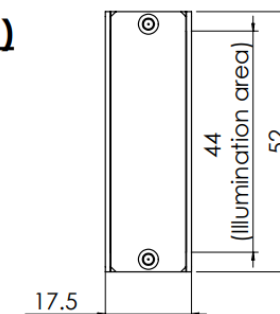
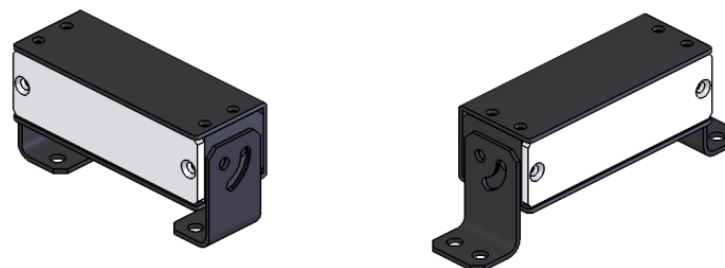
Lighting Picture



Lighting Dimension



FLDL-Si44X15 with Mounting Brackets (Optional)



Unit in mm

Mechanical Information	
Casing Material	Metal + Diffuser
Weight	40 g
Operating Temperature	0°C to 40°C, Humidity 20%-85%
Storage Temperature	-20°C to 60°C, Humidity 20%-85%
Lighting Dimension W x L x H	17.5 x 52.0 x 20.0 mm
IP Rating	IP30



Optical Information	RGB		
	RED	GREEN	BLUE
Wavelength / Color temperature	626nm	525nm	470nm
Illumination (Number of LED)	12	12	12
Illumination Area	44 x 15 mm		
Led Package	SMD		
Eye Safety (EN 62471:2008)	Exempt Group		
Optimal Working Distance	10-100 mm		

Continuous Mode	Voltage Drive (With resistor)		Current Drive (Without resistor)	
	R	G/B	R	G/B
Supply Voltage To Controller	24VDC \pm 2%		22VDC \pm 2%	21VDC \pm 2%
Lighting Forward Voltage, Vf	22Vf	21Vf	22Vf	21Vf
Max. Current	0.02A (MAX)	0.04A (MAX)	0.02A (MAX)	0.04A (MAX)
Max. Power	2.40W	2.40W	2.20W	2.10W

Strobe Mode	Voltage Drive		Current Drive	
	R	G/B	R	G/B
Max. Lighting Supply Voltage	Pulsing at 24VDC to 48VDC, Recommended at 36VDC		Pulsing at 22VDC	Pulsing at 21VDC
Max. Current	0.02A – 0.05A (MAX)	0.04A – 0.10A (MAX)	0.02A – 0.05A (MAX)	0.04A – 0.10A (MAX)
Max. Trigger Pulse Duration	10 msec			
Duty Cycle	< 10%			

Ordering Part Number	Controller Type	Description
FLDL-Si44x15-RGB	Voltage Drive	With Resistor (Use in both constant voltage/ current power supply)
FLDL-Si44x15-RGB-0	Current Drive	Without Resistor (0 Ohm) (Only use in constant current power supply)



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

Additional Information	Details
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
Supply Ripple Voltage	$\leq V_s \pm 5\%$
Reverse Battery Protection	YES
Cooling Method	Natural air-cooling
Additional Cooling Method	Attached to machine part for better heat dissipation
Intensity Controller Selection	PSA-Series, PSD-Series, LIC-Series
CE Conformity	YES
ISO 9001:2015	MY05916



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