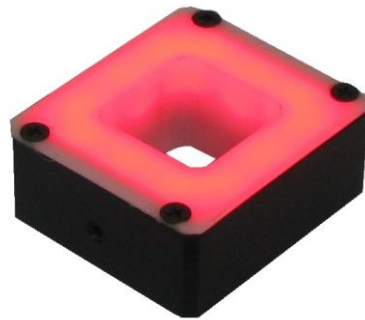


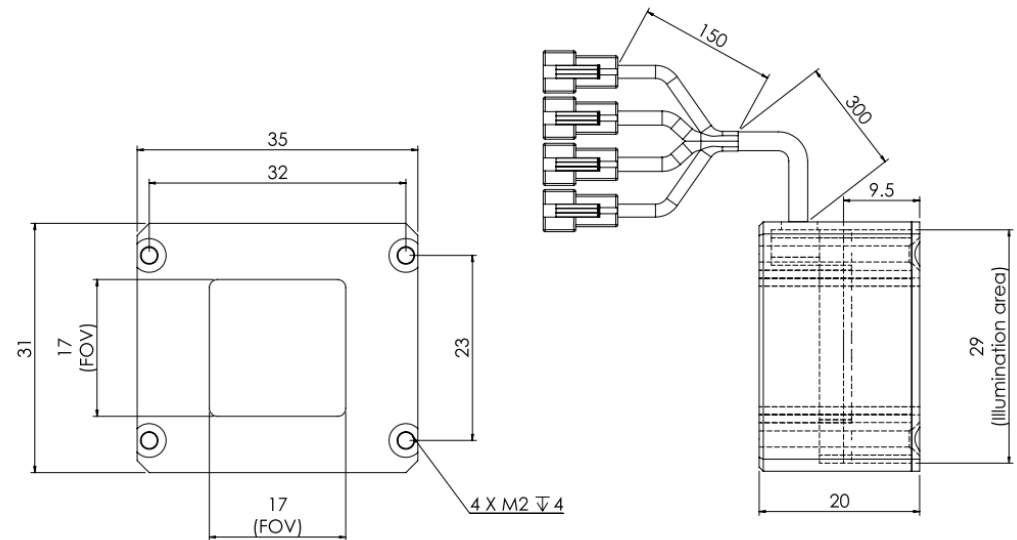
Low Angle Square Diffuse Light

FFPQ-Si31X35-4

Lighting Picture



Lighting Dimension



Unit in mm

Mechanical Information	
Casing Material	Aluminum + Acrylic
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	23g
Lighting Dimension, WxLxH	35.0 x 31.0 x 20.0 mm
IP Rating	IP 50




Optical Information	
Led Color	RED (R)
Wavelength	626nm
Illumination (number of LED)	20
Illumination Area	29 x 29mm
Led Package	SMD
Eye Safety (EN 62471:2008)	Exempt Group

Electrical Information	
	R
Lighting Supply Voltage (constant voltage mode)	12V ± 2%
Supply Ripple Voltage	≤ Vs ± 5%
Reverse Battery Protection	YES
Typical Lighting Forward voltage, Vf (for zero internal resistor value)	11.0 V
Continuous Current	0.16A (MAX)
Power Consumption	1.92 W
Lighting casing temperature, Operating after 60 minutes	47°C

Strobe Mode Specification	
	R
Max. Lighting Supply Voltage (Constant voltage power supply)	Pulsing at 12VDC to 24VDC, 0-10% Duty Cycle Recommended at 18VDC
Pulse Current, (Max. 10msec) (Constant current power supply)	0.40A (MAX)
Max. Trigger Pulse Duration, msec	10 msec
Duty Cycle	0 - 10%

Ordering Option	
FFPQ-Si31X35-4-R	With resistor to limit the current (Use in both constant voltage/ current power supply)
FFPQ-Si31X35-4-R-0	Internal resistor value= zero ohms (only use in constant current power supply)



Connection		R		
Connector Type (Default):	JST SMR-03V			
	Pin	Signal	Cable Color	
	1	LED +	Black/White	
	2	N.C.	---	
	3	LED -	Black	
Cable Length out from lighting:	450 mm			

Additional Information		R		
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	0-20 mm



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