

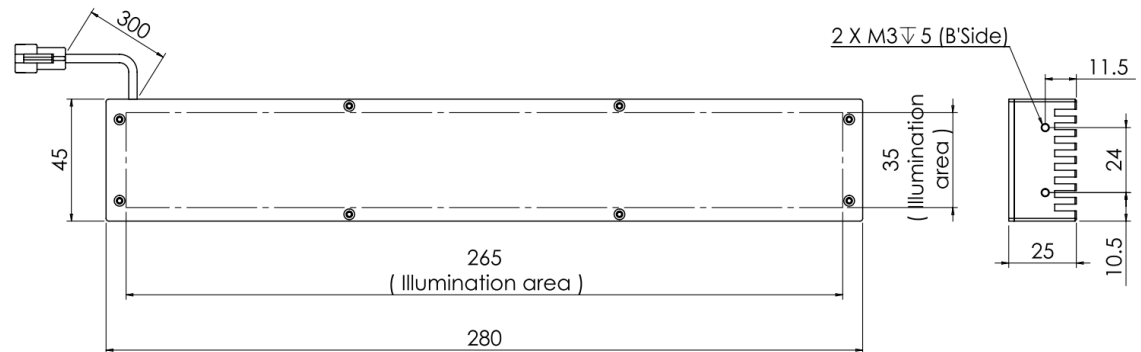
High Brightness Diffuse Back Light

FLDL-TP-Si255x35

Lighting Picture



Lighting Dimension



Unit in mm

Mechanical Information	
Casing Material	Aluminium + Diffuser
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	489g
Lighting Dimension, WxLxH	280.0 x 45.0 x 25.0 mm
IP Rating	IP50



Optical Information				
Led Color	INFRARED (IR)	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	850nm	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	175	175	175	175
Illumination Area	265 x 35 mm			
Led Package	SMD			
Eye Safety (EN 62471:2008)	Exempt Group			

Electrical Information		IR	G/B/W
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)		9.8 V	21.0 V
Continuous Current		0.63A (MAX)	0.50A (MAX)
Power Consumption		7.50 W	12.00 W
Lighting casing temperature, Operating after 60 minutes		52°C	52°C

Strobe Mode Specification		IR	G/B/W
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)		1.58A (MAX)	1.25A (MAX)
Max. Trigger Pulse Duration, msec		10 msec	
Duty Cycle		0 - 10%	

Ordering Option	
FLDL-TP-Si255X35-IR/G/B/W	With resistor to limit the current (Use in both constant voltage/ current power supply)
FLDL-TP-Si255X35-IR/G/B/W-0	Internal resistor value= zero ohms (only use in constant current power supply)



Connection		IR			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:		300 mm						

Additional Information	IR/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	5-100 mm



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