



## High Brightness Diffuse Back Light

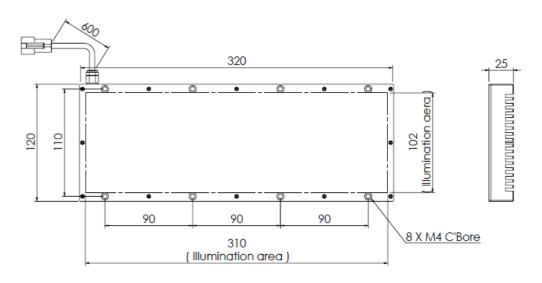


# FLDL-TP-Si300X100

### **Lighting Picture**



### **Lighting Dimension**



Unit in mm

Mechanical Information					
Casing Material	Aluminium + Diffuser				
Weight	1250g				
Operating Temperature	0°C to 40°C, Humidity 20%-85%				
Storage Temperature	Temp 0-35°C, Humidity 20-85%				
Lighting Dimension W x L x H	320.0 x 120.0 x 25.0 mm				
IP Rating	IP50				





Led Colour Optical Information	InfraRed (IR/IR24)	GREEN (G)	BLUE (B)	WHITE (W)		
Wavelength / Color temperature	850nm 525nm		470nm	xy=(0.31,0.32)		
Illumination (Number of LED)	784 784		784	784		
Illumination Area	310 x 102 mm					
Led Package	SMD					
Eye Safety (EN 62471:2008)	Exempt Group					
Optimal Working Distance	0-100 mm					

Continuous Mode	Volta	ge Drive (With res	istor)	Current Drive (Without resistor)			
	IR	IR24	G/B/W	IR	IR24	G/B/W	
Supply Voltage To Controller	12VDC ± 2%	24V ± 2%		10VDC ± 2%	23VDC ± 2%	22VDC ± 2%	
Lighting Forward Voltage, Vf	9.8 V	22.4 V	21.0 V	9.8 V	22.4 V	21.0 V	
Max. Current	2.80A (MAX)	1.23A (MAX)	2.24A (MAX)	2.80A (MAX)	1.23A (MAX)	2.24A (MAX)	
Max. Power	33.60W	29.52W	53.76W	28.00W	28.29W	49.28W	

Strobe Mode		Voltage Drive		Current Drive			
Strobe wode	IR	IR24	G/B/W	IR	IR24	G/B/W	
Max. Lighting Supply Voltage	Pulsing at 12VDC to 24VDC, 0-10% Duty Cycle Recommended at 18VDC	0-10% E	VDC to 48VDC, Outy Cycle ded at 36VDC	Pulsing at 10VDC	Pulsing at 23VDC Pulsing at 22V		
Max. Current	7.00 A (MAX)	3.08 A 5.60 A (MAX)		7.00 A (MAX)	3.08 A (MAX)	5.60 A (MAX)	
Max. Trigger Pulse Duration	10 msec						
Duty Cycle	< 10%						

Ordering Part Number	Controller Type	Description			
FLDL-TP-Si300x100-IR/IR24/G/B/W	Voltage Drive	With Resistor			
	·g	(Use in both constant voltage/ current power supply)			
FLDL-TP-Si300x100-IR/IR24/G/B/W-0	Current Drive	Without Resistor (0 Ohm)			
		(Only use in constant current power supply)			





Connection	(Voltage & Current drive)							
Connector Type (Default):	JST	JST SMR-02V			JST SMR-03V			
	Pin	Sign	nal	Cable Color	Pin	Sig	inal	Cable Color
	1	LEC	)+	Black/White	1	LEI	D +	Black/White
	2	LED -		Black	2	N.C.		
					3	LE	D -	Black
Cable Length out from lighting:	600 mm							

Additional Information	<b>Details</b>
Life span in continuous mode	20,000 hours
Life span in strobe light mode	
Lighting drop to 50% intensity	50,000 hours
(at 25°C ambient temperature)	
Supply Ripple Voltage	≤ Vs ± 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	MY11/00845





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