

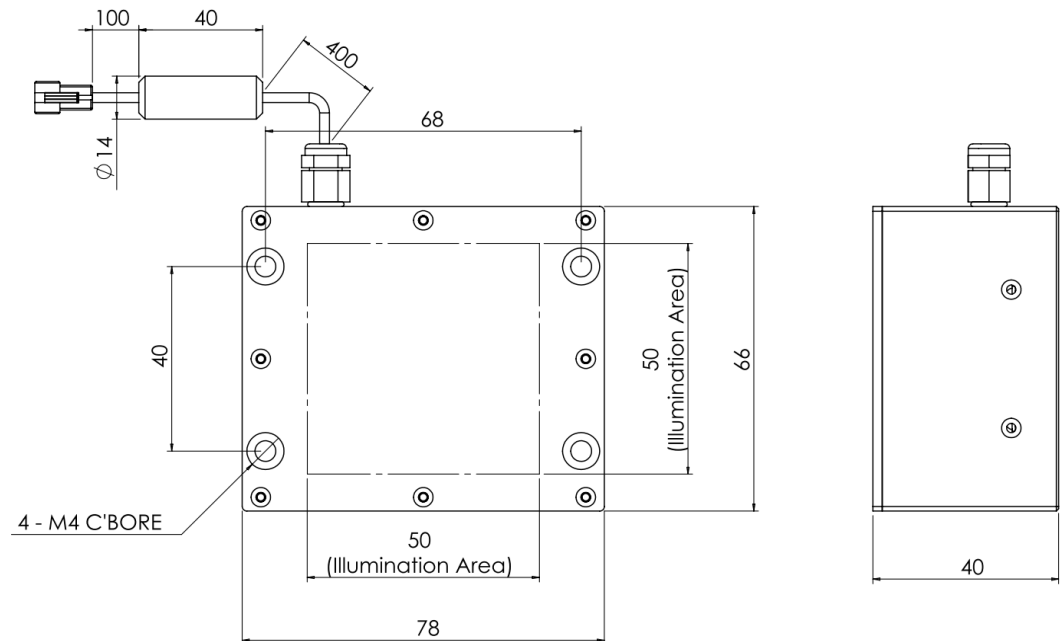
# High Brightness Diffuse Back Light

## FHDL-TP-Si51

Lighting Picture



Lighting Dimension



Unit in mm

Mechanical Information	
Casing Material	Stainless Steel
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	580 g
Lighting Dimension, WxLxH	78.0 x 66.0 x 40.0 mm
IP Rating	IP 50



FHDL-TP-Si51

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Optical Information			
Led Color	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	35	35	35
Illumination Area	50 x 50 mm		
Led Package	SMD		
Eye Safety (EN 62471:2008)	RG-2 (Moderate Risk): Caution. Do not stare at exposed lamp in operation. May be harmful to eyes.		

Electrical Information		G/B/W
Lighting Supply Voltage (constant voltage mode)		20V ± 2%
Supply Ripple Voltage		≤ Vs ± 5%
Reverse Battery Protection		YES
Lighting Forward voltage, (for zero internal resistor value)		20.0 V
Continuous Current		0.70A (MAX)
Power Consumption		14.00 W
Lighting casing temperature, Operating after 60 minutes		>60°C

Strobe Mode Specification		G/B/W
Max. Lighting Supply Voltage (Constant voltage power supply)		Pulsing at 20VDC to 40VDC, 0-10% Duty Cycle Recommended at 30VDC
Pulse Current, (Max. 10msec) (Constant current power supply)		1.75A (MAX)
Max. Trigger Pulse Duration, msec		10 msec
Duty Cycle		0 - 10%

Ordering Option	
FHDL-TP-Si51-G/B/W	With resistor to limit the current (Use in both constant voltage / current power supply)
FHDL-TP-Si51-G/B/W-0	Internal resistor value= zero ohms (only use in constant current power supply)



<b>Connection</b>		<b>G/B/W</b>		
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:	540 mm			

<b>Additional Information</b>		<b>G/B/W</b>
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	

<b>Application</b>	
Optimal Working Distance	0-100mm



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