

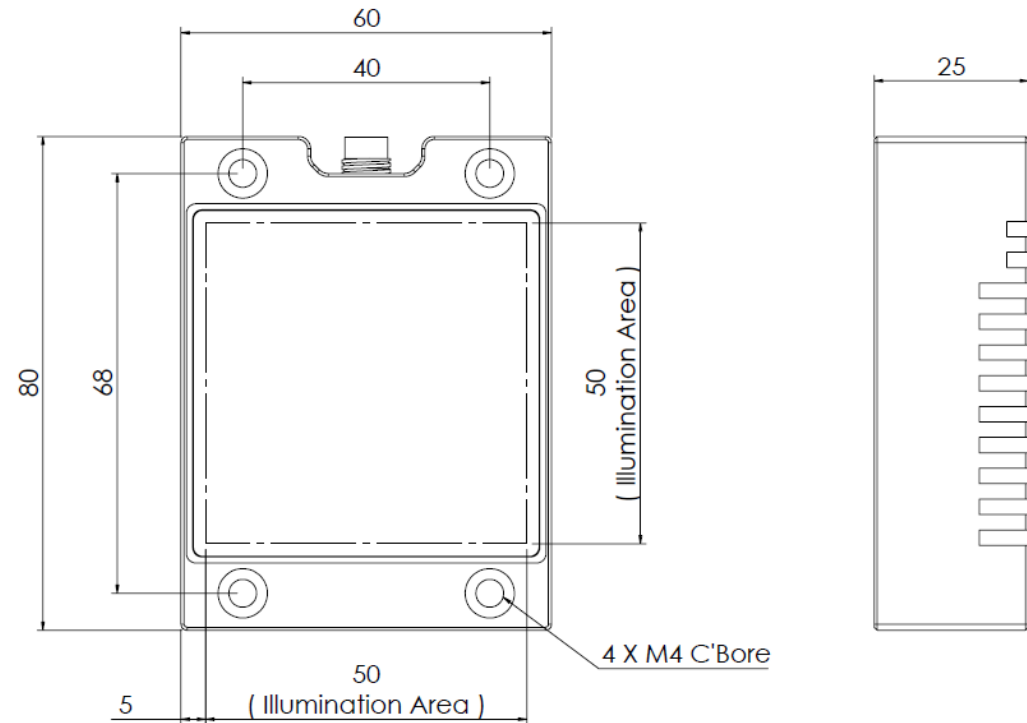
IP High Brightness Diffuse Back Light

FLDL-TP-Si51-IP67

Lighting Picture



Lighting Dimension



Unit in mm

Mechanical Information	
Casing Material	Aluminium
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	400g
Lighting Dimension, WxLxH	60.0 x 80.0 x 25.0 mm
IP Rating	IP67




Optical Information			
Led Color	GREEN (G/G12)	BLUE (B/B12)	WHITE (W/W12)
Wavelength	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	90	90	90
Illumination Area	50 x 50 mm		
Led Package	SMD		
Eye Safety (EN 62471:2008)	Exempt Group		

Electrical Information	G12/B12/W12	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)	9.0 V	18.0 V
Continuous Current	0.60A (MAX)	0.30A (MAX)
Power Consumption	7.20 W	7.20 W
Lighting casing temperature, Operating after 60 minutes	53°C	<60°C

Strobe Mode Specification	G12/B12/W12	G/B/W
Max. Lighting Supply Voltage (Constant voltage power supply)	Pulsing at 12VDC to 24VDC, 0-10% Duty Cycle Recommended at 18VDC	Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle Recommended at 36VDC
Pulse Current, (Max. 10msec) (Constant current power supply)	1.50A (MAX)	0.75A (MAX)
Max. Trigger Pulse Duration, msec	10 msec	
Duty Cycle	0 - 10%	

Ordering Option	
FLDL-TP-Si51-IP67-G12/B12/W12/G/B/W	With resistor to limit the current (Use in both constant voltage/ current power supply)
FLDL-TP-Si51-IP67-G12/B12/W12/G/B/W-0	Internal resistor value= zero ohms (only use in constant current power supply)



Connection		G12/B12/W12/G/B/W		
Connector Type (Default):	Pico M8 (Male)			
Pin Configuration: Pico M8 (Male)		Pin	Light Segment	Börsig /Binder P/N: 79-3382-52-04 Wire Color
		1	LED +	Brown
		2	N.C.	White
		3	LED -	Blue
		4	N.C.	Black
Cable Length out from lighting:	N/A			

Additional Information		G12/B12/W12/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	50,000 hours			
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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