



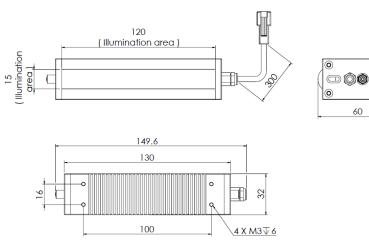
High Brightness Line Light

FHLN-Si100

Lighting Picture

Lighting Dimension





All unit in mm

0

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Mechinical Information	
Casing Material	Aluminium + Acrylic
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	470g
Lighting Dimension, WxLxH	32.0 x 130 x 60.0mm
IP Rating	IP 50

Optical Information	
Led Color	WHITE (W)
Wavelength, CIE coordinate	xy=(0.31,0.32)
Illumination (number of LED)	14
Illumination Area	120 x15 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		
Lighting Supply Voltage		
(constant voltage mode)	24V ± 2%	
Supply Ripple Voltage	≤ Vs ± 5%	
Reverse Battery Protection	YES	
Lighting Forward voltage		
(for zero internal resistor value)	21.0 V	
Continuous Current	0.7 A (MAX)	
Power Consumption		
(constant voltage mode)	16.8 Watts	
Lighting casing temperature,	(Without compress air cooling) 75°C	
Operating after 60 minutes in continuous mode	(With compress air cooling) 55°C	







Strobe Mode Specification			
Max. Lighting Supply Voltage	Pulsing at 24VDC to 40VD	C.	
(Constant voltage power supply)	0-10% Duty Cycle	•,	
	Recommended at 36VDC		
Pulse Current, (Max. 10msec)			
(Constant current power supply)	1.75 A (MAX) (PULSE ONLY)		
Constant Current Power Supply			
Voltage Level	22.0V (1.0V higher than the ligh	ting Vf)	
Max. Trigger Pulse Duration, msec	10 msec		
Duty Cycle	0 to 10%		
Over Driving Mode			
Constraints	Major constraint in over current mode is tremendous heat generated on the lighting and results the led in permanent damage.		
Maximum Current,	1.4 A (MAX)		
(Constant current power supply)	Ordering Option (FHLN-Si100	-W-0)	
Constant Current Power Supply			
Voltage Level	22.0V (1.0V higher than the lighting Vf)		
Max. Turn On Duration, sec	10 Sec		
Duty Cycle	50%		
Over driving in Constant voltage	Ordering Option (FHLN-Si100-W-0-2)		
Mode			
Additional Information			
Additional Cooling Method	 Apply compress air onto the lighting Attached to machine part for better heat dissipation 		
Life span in continuous mode	20,000 hours (drop to 50% intensity) at 25°C		
Life span in strobe light mode	Est. >50,000 hours (drop to 50% intensity) at 25°C		
Intensity Controller Selection	PSA-Series, PSA-Series, LIC-Series		
CE Conformity	YES		
RoHS	YES		
ISO 9001:2008	SG11/03751		
Ordering Option			
FHLN-Si100-W	With resistor to limit the current		
	(Use in both constant voltage/ current power supply)		
FHLN-Si100-W-0	Internal resistor value= zero o		
	(only use in constant current powe	er supply)	
FHLN-Si100-W-0-2	Driving in 2x current with build in inte		
	(Use in both constant voltage/ current		
Connection			
Connector Type (Default):	JST SMR-03V		
Cable Length out from lighting:	500 mm		
Pin Configuration:	Pin Signal	Cable Color	
_	1 LED +	Black/White	
	2 N.C. 3 LED -	Black	
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	and the second se		
Application			
Optimal Working Distance	20-100mm		
Optimize the lighting Life Span	1. It is recommended to turn ON the lighting only during image		
	capturing or conjunction with camera exposure time. This will		
	enable the lighting to work with longer life span and prevent		
	overheating and resulting damage to the led.		







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