



High Brightness Line Light

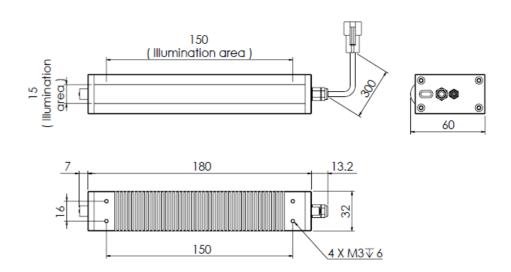
FHLN-Si150S

Lighting Picture

Lighting Dimension



Mechanical Information	
Casing Material	Aluminium + Acrylic
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	620g
Lighting Dimension, WxLxH	32.0 x 180.0 x 60.0mm
IP Rating	N/A



Unit in mm





Optical Information	
Led Color	WHITE (W)
Wavelength	xy=(0.31,0.32)
Illumination (number of LED)	28
Illumination Area	150 x 15 mm
Led Package	SMD
Eye Safety (EN 62471:2008)	Risk Group 1

Electrical Information	W
Lighting Supply Voltage	24V ± 2%
(constant voltage mode)	
Supply Ripple Voltage	≤ Vs ± 5%
Reverse Battery Protection	YES
Typical Lighting Forward voltage, Vf	21.0 V
(for zero internal resistor value)	21.0 V
Continuous Current	1.40A (MAX)
Power Consumption	33.60 W
Lighting casing temperature,	(Without compress air cooling) 75°C
Operating after 60 minutes	(With compress air cooling) 60°C

Strobe Mode Specification	W	
Max. Lighting Supply Voltage	Pulsing at 24VDC to 48VDC,	
(Constant voltage power supply)	0-10% Duty Cycle	
	Recommended at 36VDC	
Pulse Current, (Max. 10msec)	3.50A (MAX) (PULSE ONLY)	
(Constant current power supply)	3.30A (MAX) (FOESE ONET)	
Constant Current Power Supply Voltage Level	22.0V (1.0V higher than the lighting 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,	2.80A (MAX)	
(Constant current power supply)	Ordering Option (FHLN-Si150S-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 Mode	Ordering Option (FHLN-Si150S-W-2)	







Ordering Option	
FHLN-Si150S-W	With resistor to limit the current
	(Use in both constant voltage/ current power supply)
FHLN-Si150S-W-0	Internal resistor value= zero ohms
	(only use in constant current power supply)
FHLN-Si150S-W-2	Driving in 2x current with build in internal resistor
	(Use in both constant voltage/ current power supply)

Connection	W			
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:		300 r	mm	

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 Lighting drop to 50% intensity (at 25°C ambient temperature)	Est. >50,000 hours (drop to 50% intensity) at 25°C	
Intensity Controller Selection	PSA-Series, PSD-Series, LIC-Series	
CE Conformity	YES	
RoHS Compliance	YES	
ISO 9001:2008	SG11/03751	

Application	
Optimal Working Distance	20-100 mm
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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FHLN-Si150S