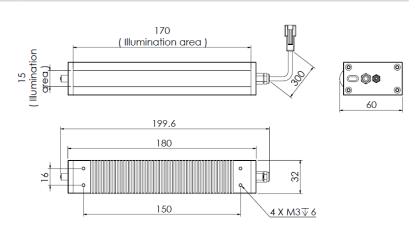




FHLN-Si150

Lighting Picture Lighting Dimension





All unit in mm

Mechinical Information		
Casing Material	Aluminium + Acrylic	
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%	
Weight	620g	
Lighting Dimension, WxLxH	32.0 x 180 x 60.0mm	
IP Rating	IP 50	

Optical Information	FHLN-Si150	FHLN-Si150S
Led Color	WHITE (W)	
Wavelength, CIE coordinate	xy=(0.31,0.32)	
Illumination (number of LED)	21	28
Illumination Area	170 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	FHLN-Si150	FHLN-Si150S	
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	1.05 A (MAX)	1.4 A (MAX)	
Power Consumption			
(constant voltage mode)	25.2 Watts	33.6 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	FHLN-Si150	FHLN-Si150S	
Max. Lighting Supply Voltage	Pulsing at 24V		
(Constant voltage power supply)	0-10% Duty Cycle Recommended at 36VDC		
Pulse Current, (Max. 10msec)	Recommend	cu at 30 VDC	
		2 F A (MAY) (DITLET ONLY)	
(Constant current power supply)	2.6 A (MAX) (PULSE ONLY)	3.5 A (MAX) (PULSE ONLY)	
Constant Current Power Supply	20.01/(4.01/ high an	the are the all substiness \(\frac{1}{2} \)	
Voltage Level	22.0V (1.0V higher		
Max. Trigger Pulse Duration, msec		nsec	
Duty Cycle	0 to 10%		
Over Driving Mode	For FHLN-Si100-W-0, FHLN-Si150S-W-0 only		
Constraints	Major constraint in over current mode is tremendous heat generated on the lighting and results the led in permanent damage.		
Maximum Current,	2.8 A		
(Constant current power supply)	Ordering Option FHLN-Si15	50-W-0 / FHLN-Si150S-W-0	
Constant Current Power Supply			
Voltage Level	22.0V (1.0V higher	than the lighting Vf)	
May Turn On Duration and	40.4	Soo	
Max. Turn On Duration, sec	10 Sec 50%		
Duty Cycle			
Over driving in Constant voltage	Refer to ordering option (FHLN-	-3113U-VV-Z/FHLN-3115US-VV-Z)	
Mode Additional Information			
Additional Cooling Method	Apply compress air onto the I	ighting	
Additional Cooling Method	Apply compress all onto the real 2. Attached to machine part for real actions.		
Life span in continuous mode	20,000 hours (drop to 50% intens		
Life span in strobe light mode	Est. >50,000 hours (drop to 50% intens	,	
Intensity Controller Selection	PSA-Series, PSA-Series, LIC-Ser		
CE Conformity	YES	ICO	
RoHS	YES		
ISO 9001:2008	SG11/03751		
	3311/03/31		
Ordering Option FHLN-Si150-W	With register to	limit the current	
FHLN-Si150-W		age/ current power supply)	
FHLN-Si150-W-0	No interna		
FHLN-Si150S-W-0			
		current power supply)	
FHLN-Si150-W-2		build in internal resistor	
FHLN-Si150S-W-2 Connection	(USE III DOLII CONSTANT VOILE	age/ current power supply)	
Connection Connector Type (Default):	ICT CA	MR-03V	
Cable Length out from lighting:		mm	
Pin Configuration:	Pin Signal	Cable Color	
i iii Comiguration.	1 LED +	Black/White	
	2 N.C.		
	3 LED -	Black	
	1.		
Application			
Application Optimal Working Distance	20.40	10mm	
Optimize the lighting Life Span	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.		
	overneating and resulting dar	nage to the icu.	





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