



High Brightness Spot Light



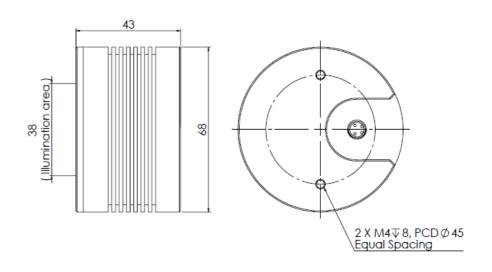
FHSP-Si60N-IP67

Lighting Picture



Mechanical Information		
Casing Material	Aluminium	
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%	
Weight	340 g	
Lighting Dimension, ØxH	Ø68.0 x 43.0mm	
IP Rating	IP67	

Lighting Dimension



Unit in mm





Optical Information				
Led Color	INFRARED (IR24)	GREEN (G)	BLUE (B)	WHITE(W)
Wavelength, CIE coordinate	850nm	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	7	7	7	7
Illumination Area, Ø	Ø38mm			
Led Package	SMD			
Eye Safety (EN 62471:2008)	RG-2 (Moderate Risk): Caution. Do not stare at exposed lamp in operation			
Electrical Information	IR24 G/B/W			3/W
Lighting Supply Voltage (constant voltage mode)	24V ± 2%			
Supply Ripple Voltage	≤ Vs ± 5%			
Reverse Battery Protection	YES			
Lighting Forward voltage,Vf (for zero internal resistor value)	20.3 V		21.0 V	
Continuous Current	0.35A (MAX) 0.35A (MAX)		(MAX)	
Power Consumption (constant voltage mode)	8.40 W		8.40 W	
Lighting casing temperature, Operating after 60 minutes in continuous mode	53°C		53°C	

Strobe Mode Specification	IR24	G/B/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)	0.88A (MAX) (PULSE ONLY)	0.88A (MAX) (PULSE ONLY)	
(Constant current power supply)	0.007 (MIAN) (I OLOL ONLI)	0.00% (WINN) (I OLOL GIVET)	
Constant Current Power Supply Voltage Level	10.8V (1.0V higher than the lighting Vf)	22.0V (1.0V higher than the lighting Vf)	
Max. Trigger Pulse Duration, msec	10 msec		
Duty Cycle	0 to 10%		
Over Driving Mode	IR24	G/B/W	
Constraints	Major constraint in over current mode is tremendous heat generated on the lighting and results the led in		
	permane	nt damage.	
Maximum Current,	0.70A (MAX)		
(Constant current power supply)	Ordering Option (FHSP-Si60N-xxxx-0)		
Constant Current Power Supply Voltage Level	10.8V (1.0V higher than the lighting Vf)	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 (FHSP-Si60N-xxxx-2)		





Ordering Option	
FHSP-Si60N-IP67-IR24/G/B/W	With resistor to limit the current
	(Use in both constant voltage/ current power supply)
FHSP-Si60N-IP67-IR24/G/B/W-0	Internal resistor value= zero ohms
	(only use in constant current power supply)
FHSP-Si60N-IP67-IR24/G/B/W-2	Driving in 2x current with build in internal resistor
	(Use in both constant voltage/ current power supply)

Connection	IR24/G/B/W		
Connector Type:	Pico M8 (Male)		
Cable Length out from lighting:	N/A		
Pin Configuration: Pico M8 (Male)	Pin Pin Name Börsig /Binder P/N: 79-3382-52-04		
2~4			Wire Color
(● ●)	1	LED 1 +	Brown
(• •).	2 N.C		
1 3	3	LED 1 -	Blue
	4	N.C.	

Additional Information	IR24/G/B/W
Additional Cooling Method	Attached to metal part for additional cooling
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	10-3000mm
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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