



High Brightness Low Angle Ring Diffuse Light

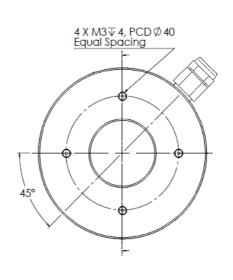
FHPR-Si50

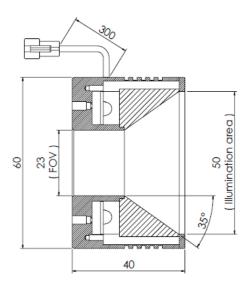
Lighting Picture

Lighting Dimension



Mechanical Information	
Casing Material	Aluminium + Acrylic
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	160g
Lighting Dimension, OD/ ID / H	60.0 / 23.0 / 40.0 mm
IP Rating	IP 50





Unit in mm







Optical Information	
Led Color	WHITE (W)
Wavelength	xy=(0.31,0.32)
Illumination (number of LED)	14
Illumination Area	Ø 50.0 mm
Led Package	High Power 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	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	0.4A (MAX)
Power Consumption	8.40 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)	6.0A (MAX) (PULSE ONLY)
(Constant current power supply)	0.0A (IVIAX) (POLSE OINLT)
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%

Ordering Option	
FHPR-Si50-W-0	Internal resistor value= zero ohms
	(only use in constant 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 mm

Additional Information	W
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	0-30 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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