



High Brightness Low Angle Diffuse Light

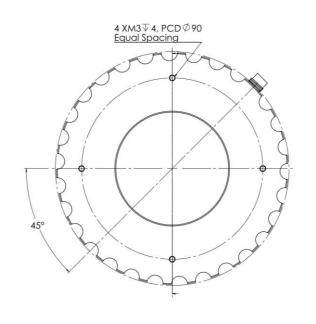
FHPR-Si100-IP67

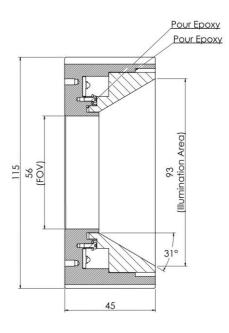
Lighting Picture

Lighting Dimension



Mechanical Information	
Casing Material	Aluminium + Acrylic
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	950 g
Lighting Dimension, OD/ ID / H	115.0 x 56.0 x 45.0 mm
IP Rating	IP 67





Unit in mm





Optical Information				
Led Color	RED (R24)	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	626nm	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	30	28	28	28
Illumination Area	Ø93mm			
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	R24	G/B/W
Lighting Supply Voltage (constant voltage mode)	24V ± 2%	
Supply Ripple Voltage	≤ Vs ± 5%	
Reverse Battery Protection	YES	
Typical Lighting Forward voltage, Vf (for zero internal resistor value)	22.0 V	21.0 V
Continuous Current	1.00A (MAX)	1.00A (MAX)
Power Consumption	24.00 W	24.00 W
Lighting casing temperature,	(Without compress air cooling) 75°C	
Operating after 60 minutes	(With compress	air cooling) 60°C

Strobe Mode Specification	R24	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)	2.50A (MAX) (PULSE ONLY)	2.50A (MAX) (PULSE ONLY)	
(Constant current power supply)	2.30A (WAX) (FULSE ONLT)	2.50A (WAX) (FULSE ONLT)	
Constant Current Power Supply Voltage Level	23.0V (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%		

Ordering Option		
FHPR-Si100-IP67-R24/G/B/W-0	Internal resistor value= zero ohms	
	(only use in constant current power supply)	





Connection	R24/G/B/W	
Connector Type (Default):	Pico M8 (Male)	
	Pin	Light Segment
1	1	LED +
	2	N.C.
	3	LED -
	4	N.C.
Cable Length out from lighting:	N	/A

Additional Information	R24/G/B/W	
Additional Cooling Method	Apply compress air onto the lighting Attached to machine part for better best discipation.	
-	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	Est. >50,000 hours (drop to 50% intensity) at 25°C	
(at 25°C ambient temperature)	· · · · · · · · · · · · · · · · · · ·	
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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