

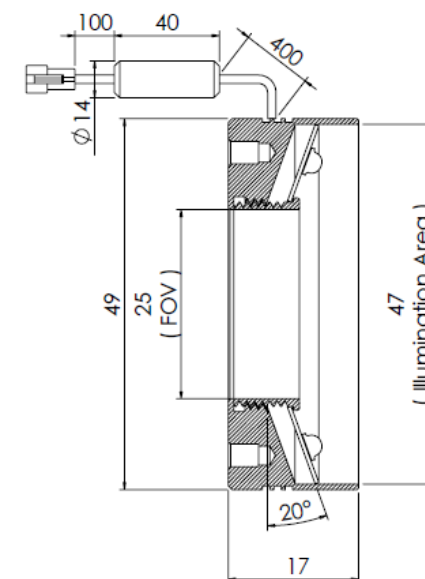
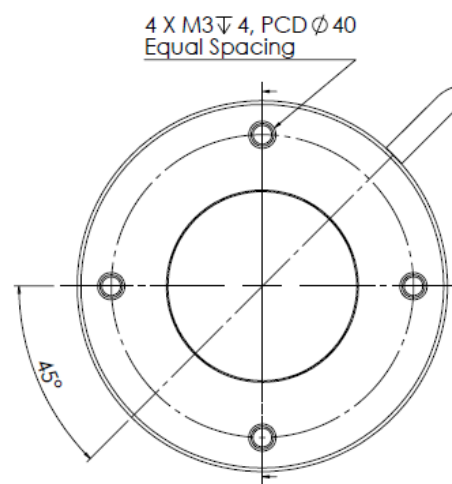
High Brightness Direct Angle Ring Light

[Falcon Logo] FHDR-Si50B (STROBE MODE ONLY)

Lighting Picture



Lighting Dimension



Unit in mm

Mechanical Information	
Casing Material	Aluminium
Weight	65g
Operating Temperature	0°C to 40°C , Humidity 20%-85%
Storage Temperature	-20°C to 60°C, Humidity 20%-85%
Lighting Dimension, Ø x H	Ø49.0 x 17.0mm



FHDR-Si50B

Asia Office: www.falcon-illumination.com, Europe Office: www.falcon-illumination.de
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Led Colour	INFRARED(IR)	RED(R24)	GREEN(G)	BLUE (B)	WHITE (W)
Optical Information					
Wavelength / Color temperature	850nm	626nm	525nm	470nm	xy=(0.31,0.32)
Illumination (Number of LED)	18	22		21	
Illumination Area	Ø47mm				
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.				
Optimal Working Distance					

Strobe Mode (with internal resistor)	INFRARED(IR)	RED(R24)	GREEN(G)	BLUE (B)	WHITE (W)
Max. Lighting Supply Voltage	12VDC to 24VDC (Recommended at 15VDC)	24VDC to 48VDC (Recommended at 36VDC)			
Max. Current	2.10A(MAX)	0.70A(MAX)	1.05A (MAX)		
Max. Power	25.20W	16.80W	25.20W		
Max. Trigger Pulse Duration	50 msec				
Duty Cycle	0 - 10%				

Strobe Mode (without internal resistor)	INFRARED(IR)	RED(R24)	GREEN(G)	BLUE (B)	WHITE (W)
Typical Lighting Forward Voltage	Vf=8.7V	Vf=22.0V	Vf=21.0V		
Max. Current	5.25A(MAX)	1.75A(MAX)	2.63A (MAX)		
Max. Power	45.68W	38.50W	55.13W		
Max. Trigger Pulse Duration	10 msec				
Duty Cycle	0 - 10%				

Ordering Part Number	Description
FHDR-Si50B-IR/R24/G/B/W	With Resistor (Use in both constant voltage/ current power supply)
FHDR-Si50B-IR/R24/G/B/W-0	Without Resistor (0 Ohm) (Only use in constant current power supply)



Connection		G/B/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:		540 mm		

Additional Information	G/B/W
Additional Cooling Method	Attached to machine part for better heat dissipation
Life span in continuous mode,	20,000 hours
Life span in strobe light mode Lighting drop to 50% intensity (at 25°C ambient temperature)	50,000 hours
Intensity Controller Selection	PSA-Series, PSD-Series, LIC-Series
CE Conformity	YES
RoHS Compliance	YES
ISO 9001:2015	MY11/00845



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