

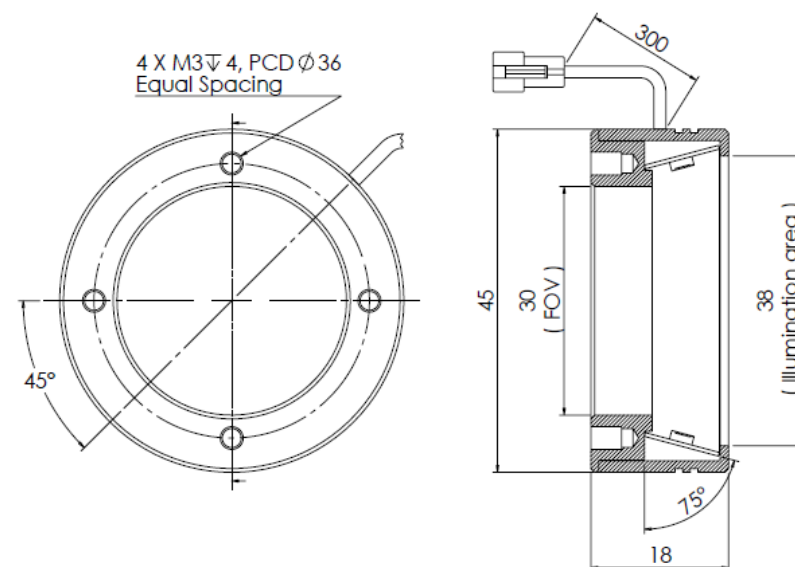
Low Angle Ring Light

[FALCON] FLDR-Si45NLA3

Lighting Picture



Lighting Dimension



Mechanical Information	
Casing Material	Aluminium
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	33 g
Lighting Dimension ϕ xH	ϕ 45.0 x 18.0 mm
IP Rating	N/A

Unit in mm



FLDR-Si45NLA3

Asia Office: www.falcon-illumination.com, Europe Office: www.falcon-illumination.de
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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	Ø38mm			
Led Package	SMD			
Eye Safety (EN 62471:2008)	Exempt Group			

Electrical Information		R24	G/B/W
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)		22.0 V	21.0 V
Continuous Current		0.12A (MAX)	0.08A (MAX)
Power Consumption		2.88 W	1.92 W
Lighting casing temperature, Operating after 60 minutes		50°C	44°C

Strobe Mode Specification		R24	G/B/W
Max. Lighting Supply Voltage (Constant voltage power supply)		Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle Recommended at 36VDC	
Pulse Current, (Max. 10msec) (Constant current power supply)		0.30A (MAX)	0.20A (MAX)
Max. Trigger Pulse Duration, msec		10 msec	
Duty Cycle		0 - 10%	

Ordering Option	
FLDR-Si45NLA3-R24/G/B/W	With resistor to limit the current (Use in both constant voltage/ current power supply)
FLDR-Si45NLA3-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):		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	R24/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 9001:2008	SG11/03751

Application	
Optimal Working Distance	5-30 mm



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