



Low Angle Ring Light

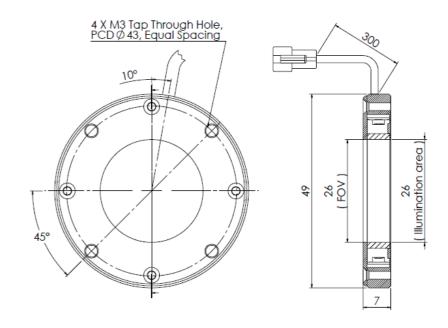


Lighting Picture





Mechanical Information	
Casing Material	Aluminium
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	25 g
Lighting Dimension ØxH	Ø49 x 7.0mm
IP Rating	IP30



Unit in mm







Optical Information						
Led Color	RED(R24)	InfraRed (IR/IR24)	GREEN(G)	BLUE (B)	WHITE (W)	
Wavelength	626nm	850nm	525nm	470nm	xy=(0.31,0.32)	
Illumination (number of LED)	30	28/30	30	30	30	
Illumination Area	Ø26mm					
Led Package	SMD					
Eye Safety (EN 62471:2008)	Exempt Group					

Electrical Information	IR	R24	G/B/W					
Lighting Supply Voltage (constant voltage mode)	12V ± 2%	24V ± 2%						
Supply Ripple Voltage		≤ Vs ± 5%						
Reverse Battery Protection	YES							
Typical Lighting Forward voltage, Vf (for zero internal resistor value)	9.8V	22.0 V	21.0 V	21.0 V				
Continuous Current	0.10A (MAX)	0.12A (MAX)	0.05A (MAX)	0.08A (MAX)				
Power Consumption	1.20 W	2.88 W	1.20 W	1.92 W				
Lighting casing temperature, Operating after 60 minutes	45°C	50°C 45°C 47°C		47°C				

Strobe Mode Specification	IR	R24 IR24 G/B/W					
Max. Lighting Supply Voltage	Pulsing at 12VDC to 24VDC,	Pulsing at 24VDC to 48VDC,					
(Constant voltage power supply)	0-10% Duty Cycle	0-10% Duty Cycle					
	Recommended at 15VDC	Recommended at 36VDC					
Pulse Current, (Max. 10msec) (Constant current power supply)	0.25A (MAX)	0.30A (MAX) 0.13A (MAX) 0.20A (MAX)					
Max. Trigger Pulse Duration, msec	10 msec						
Duty Cycle	0 - 10%						

Ordering Option	
FLDR-Si49DLA1-R24/IR/IR24/G/B/W	With resistor to limit the current
1 EDIX-3149DEA 1-1\24/11\/11\24/0/D/W	(Use in both constant voltage/ current power supply)
FLDR-Si49DLA1-R24/IR/IR24/G/B/W-0	Internal resistor value= zero ohms
FLDR-3149DLA1-R24/IR/IR24/G/D/W-0	(only use in constant current power supply)







Connection		IR				R24/IR2	4/G/B/W	
Connector Type (Default):	JST	T SMR-02V			JST SMR-03V			
	Pin	Sigr	nal	Cable Color	Pin	Sig	inal	Cable Color
	1	LED) +	Black/White	1	LEI	D +	Black/White
	2	LEC) -	Black	2	N	.C.	
					3	LE	D -	Black
Cable Length out from lighting:	300 mm							

Additional Information	R24/G/B/W/IR/IR24
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	50,000 hours
(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	0-20 mm





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