

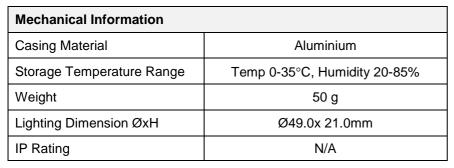


Direct Ring Light

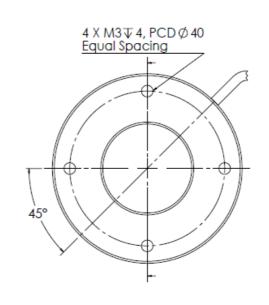
FLDR-i50A

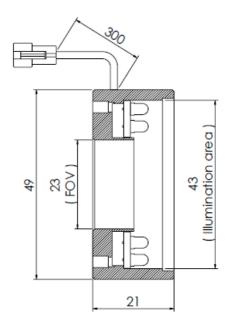
Lighting Picture





Lighting Dimension





Unit in mm







Optical Information					
Led Color	RED (SR/SR24)	InfraRed (IR/IR24)	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	626nm	875nm	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	48/44	42	42	42	42
Illumination Area			Ø43mm		
Led Package			T1 3mm		
Eye Safety (EN 62471:2008)			Exempt Group		

Electrical Information	SR	IR	SR24	IR24	G/B/W	
Lighting Supply Voltage	12\/	± 2%	24V ± 2%			
(constant voltage mode)	12 V	± 2 /0	24v ± 2/0			
Supply Ripple Voltage			≤ Vs ± 5%			
Reverse Battery Protection			YES			
Typical Lighting Forward voltage, Vf	11.4 V	9.8 V	22.0 V	19.6 V	21.0 V	
(for zero internal resistor value)	11.4 V	9.0 V	22.0 V	19.6 V	21.0 V	
Continuous Current	0.16A(MAX)	0.15A(MAX)	0.12A(MAX)	0.08A(MAX)	0.12 A(MAX)	
Power Consumption	1.92 W	1.80 W	2.88 W	1.80 W	2.88 W	
Lighting casing temperature,	4F9C	42°C	44°C	42°C	4890	
Operating after 60 minutes	45°C			42°C	48°C	

Strobe Mode Specification	SR	IR	SR24	IR24	G/B/W	
Max. Lighting Supply Voltage	Pulsing at 12\	DC to 24VDC,	Pulsing at 24VDC to 48VDC,			
(Constant voltage power supply)	0-10% Duty Cycle		0-10% Duty Cycle			
	Recommend	led at 15VDC	Recommended at 36VDC			
Pulse Current, (Max. 10msec)	0.40A(MAX)	0.38A(MAX)	0.30A(MAX)	0.19A(MAX)	0.204/MAY)	
(Constant current power supply)	0.40A(IVIAX)	0.36A(IVIAA)	0.30A(IVIAX)	0.19A(IVIAX)	0.30A(MAX)	
Max. Trigger Pulse Duration, msec	10 msec					
Duty Cycle			0 - 10%			

Ordering Option	
FLDR-i50A-SR/SR24/IR/IR24/G/B/W	With resistor to limit the current (Use in both constant voltage/ current power supply)
FLDR-i50A-SR/SR24/IR/IR24/G/B/W-0	Internal resistor value= zero ohms (only use in constant current power supply)







Connection	SR/IR			SR24/IR24/G/B/W				
Connector Type (Default):	JST SMR-02V		'a	JST SMR-03V				
	Pin	Sigr	nal	Cable Color	Pin	Sig	nal	Cable Color
	1	LED	+	Black/White	1	LEI) +	Black/White
	2	LED) -	Black	2	N.	C.	
					3	LE	D -	Black
Cable Length out from lighting:	300 mm							

Additional Information	SR/SR24/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 (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	5-100 mm







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