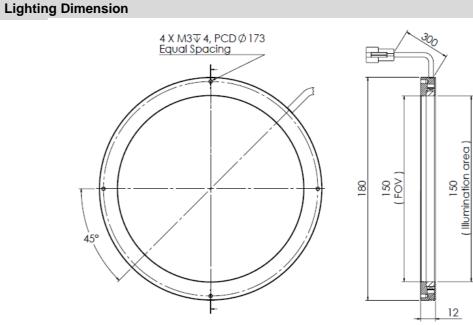




Low Angle Ring Light



Mechanical Information	
Casing Material	Aluminium
Weight	210 g
Operating Temperature	0°C to 40°C, Humidity 20%-85%
Storage Temperature	-20°C to 60°C, Humidity 20%-85%
Lighting Dimension OØ x IØ x HØ	Ø180 x 12.0mm
IP Rating	IP30



Unit in mm







Led Colour Optical Information	RED(R/R24)	InfraRed(IR/IR24)	GREEN(G)	BLUE(B)	WHITE(W)					
Wavelength / Color temperature	626nm	850nm	525nm	470nm	xy=(0.31,0.32)					
Illumination (Number of LED)	130	133 / 135	133	133	133					
Illumination Area		Ø150mm								
Led Package		SMD								
Eye Safety (EN 62471:2008)		Exempt Group								
Optimal Working Distance	0-20 mm									

Continuous Mode	Voltage Drive (With resistor)					Current Drive (Without resistor)				
	R	IR	R24	IR24	G/B/W	R	IR	R24	IR24	G/B/W
Supply Voltage To Controller	12V ±	: 2%	24V ± 2%			12VDC ± 2%	10VDC ± 2%	23VDC ± 2%	22VDC ± 2%	22VDC ± 2%
Lighting Forward Voltage, Vf	11.0 V	9.8V	22.0 V	21.0 V	21.0 V	11.0 V	9.8V	22.0 V	21.0 V	21.0 V
Max. Current	1.04A	0.48A	0.52A	0.23A	0.38A	1.04A	0.48A	0.52A	0.23A	0.38A
	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)
Max. Power	12.48 W	5.76 W	12.48 W	5.52 W	9.12 W	12.48 W	4.80 W	11.96 W	5.06 W	8.36 W

Strobe Mode			Volta	ge Drive			Current Drive				
	R	IR	G/B/W12	IR24	R24	R	IR	R24	IR24	G/B/W	
Max. Lighting Supply Voltage	Pulsing at 12VDC to 24VDC, 0-10% Duty Cycle Recommended at 18VDC		Pulsing at 24VDC Pulsing at to 48VDC, 12 VDC 0-10% Duty Cycle Recommended at 36VDC		Pulsing at 10 VDC	Pulsing at 23 VDC	Pulsing at 22 VDC	Pulsing at 22 VDC			
Max. Current	2.60A (MAX)	1.20A (MAX)	1.20A (MAX)	0.58A (MAX)	1.30A (MAX)	2.60A (MAX)	1.20A (MAX)	1.30A (MAX)	0.58A (MAX)	0.95A (MAX)	
Max. Trigger Pulse Duration	10 msec										
Duty Cycle	< 10%										

Ordering Part Number	Controller Type	Description				
		With Resistor				
FLDR-Si180LA1-R/R24/IR/IR24/G/B/W	Voltage Drive	(Use in both constant voltage/ current power supply)				
FLDR-Si180LA1-R/R24/IR/IR24/G/B/W-0	Current Drive	Without Resistor (0 Ohm)				
	Current Drive	(Only use in constant current power supply)				







Connection	R/IR				R24/IR24/G/B/W			
Connector Type (Default):	JST	ST SMR-02V		ru Fu	JST SMR-03V			
	Pin	Signal		Cable Color	Pin	Signal		Cable Color
	1 LED +) +	Black/White	1	LED +		Black/White
	2	LED -		Black	2	N.C.		
Cable Length out from lighting:	300 mm							
Additional Information				Det	ails			

Additional Information	Details
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)	
Supply Ripple Voltage	≤ Vs ± 5%
Reverse Battery Protection	YES
Cooling Method	Natural air-cooling
Additional Cooling Method	Attached to machine part for better heat dissipation
Intensity Controller Selection	PSA-Series, PSD-Series, LIC-Series
CE Conformity	YES
ISO 9001:2015	MY05916





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