



### Low Angle Ring Light

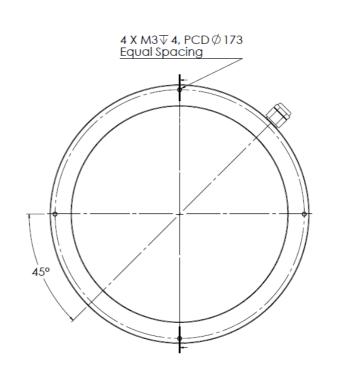
# FLDR-Si180LA1-RGB

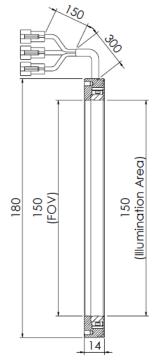
### **Lighting Picture**





Mechanical Information		
Casing Material	Aluminium	
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%	
Weight	254 g	
Lighting Dimension ØxH	Ø180.0 x 14.0 mm	
IP Rating	N/A	





Unit in mm





Optical Information			
Led Color	RED (R)	GREEN (G)	BLUE (B)
Wavelength	626nm	525nm	470nm
Illumination (number of LED)	77	77	77
Illumination Area	Ø150mm		
Led Package	SMD		
Eye Safety (EN 62471:2008)	Exempt Group		

Electrical Information	R	G	В
Lighting Supply Voltage		24V ± 2%	
(constant voltage mode)		24 V ± 2 /0	
Supply Ripple Voltage	≤ Vs ± 5%		
Reverse Battery Protection		YES	
Typical Lighting Forward voltage, Vf	22.0 V	21.0 V	21.0 V
(for zero internal resistor value)	22.0 V	21.0 V	21.0 V
Continuous Current	0.14A (MAX)	0.22A (MAX)	0.22A (MAX)
Power Consumption	3.36 W	5.28 W	5.28 W
Lighting casing temperature,		51°C	
Operating after 60 minutes		51%	

Strobe Mode Specification	R	G	В	
Max. Lighting Supply Voltage	Pulsing at 24VDC to 48VDC,			
(Constant voltage power supply)	0-10% Duty Cycle			
	Recommended at 36VDC			
Pulse Current, (Max. 10msec)	0.25A (MAY)	O FEA (MAY)	O FEA (MAY)	
(Constant current power supply)	0.35A (MAX) 0.55A (MAX) 0.55A (MAX)			
Max. Trigger Pulse Duration, msec	10 msec			
Duty Cycle	0 - 10%			

Ordering Option	
FLDR-Si180LA1-RGB	With resistor to limit the current
	(Use in both constant voltage/ current power supply)
FLDR-Si180LA1-RGB-0	Internal resistor value= zero ohms
	(only use in constant current power supply)





Connection	RGB			
Connector Type (Default):	JST SMR-03V			
	Pin	Signal	Cable Color	
	1	LED +	Black/White	A
	2	N.C.		-
	3	LED -	Black	
Cable Length out from lighting:	450 mm			

Additional Information	RGB
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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