



Low Angle Ring Light

FLDR-Si100LA1

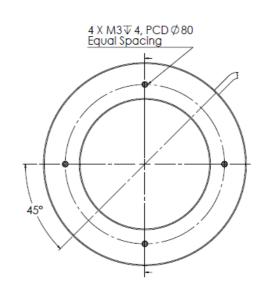
Lighting Picture

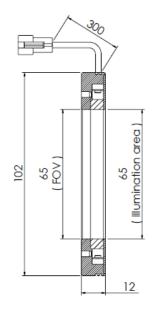




Mechanical Information	
Casing Material	Aluminium
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	125 g
Lighting Dimension ØxH	Ø102 x 12.0mm
IP Rating	IP30

Lighting Dimension





Unit in mm





Optical Information						
Led Color	RED(R/R24)	InfraRed (IR)	GREEN(G)	BLUE (B)	WHITE (W)	
Wavelength	626nm	850nm	525nm	470nm	xy=(0.31,0.32)	
Illumination (number of LED)	70	70	70	70	70	
Illumination Area	Ø65mm					
Led Package	SMD					
Eye Safety (EN 62471:2008)	Exempt Group					

Electrical Information	R 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)	11.0 V	9.8V	22.0 V	21.0 V		
Continuous Current	0.56A (MAX)	0.25A (MAX)	0.28A (MAX)	0.20A (MAX)		
Power Consumption	6.72 W	3.00 W	6.72 W	4.80 W		
Lighting casing temperature, Operating after 60 minutes	55°C	50°C	55°C	52°C		

Strobe Mode Specification	R IR		R24	G/B/W	
Max. Lighting Supply Voltage	Pulsing at 12V	DC to 24VDC,	Pulsing at 24VDC to 48VDC,		
(Constant voltage power supply)	0-10% Dเ	ıty Cycle	0-10% Duty Cycle		
	Recommende	ed at 15VDC	Recommended at 36VDC		
Pulse Current, (Max. 10msec) (Constant current power supply)	1.00A (MAX)	0.44A (MAX)	0.38A (MAX)	0.35A (MAX)	
Max. Trigger Pulse Duration, msec	10 msec				
Duty Cycle	0 - 10%				

Ordering Option	
FLDR-Si100LA1-R/R24/IR/G/B/W	With resistor to limit the current
FLDK-SITUULAT-N/K24/IN/G/B/W	(Use in both constant voltage/ current power supply)
FLDR-Si100LA1-R/R24/IR/G/B/W-0	Internal resistor value= zero ohms
FLDR-31100LA1-R/R24/IR/G/B/W-0	(only use in constant current power supply)





Connection	R/IR			R24/G/B/W				
Connector Type (Default):	JST	JST SMR-02V			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	R/R24/G/B/W/IR
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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