



Direct Angle Ring Light

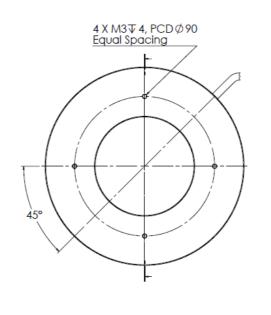
FLDR-i120B

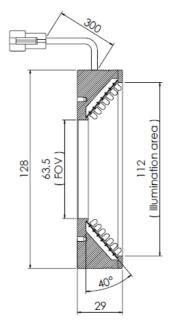
Lighting Picture



Mechanical Information	
Casing Material	Aluminium
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	534 g
Lighting Dimension ØxH	Ø128.0 x 29.0 mm
IP Rating	N/A

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)	480/440	476	476	476	476
Illumination Area			Ø112mm		
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	∠¬v ± ∠ /0			
Supply Ripple Voltage		≤ Vs ± 5%				
Reverse Battery Protection			YES			
Typical Lighting Forward voltage, Vf	11.4V	9.8V	22.8V	19.6V	21.0V	
(for zero internal resistor value)	11.4 V	9.6 V	22.6 V	19.0 V	21.00	
Continuous Current	1.60A (MAX)	1.70A (MAX)	1.20A (MAX)	0.85A (MAX)	1.36A (MAX)	
Power Consumption	19.20 W	20.40 W	28.80 W	20.40 W	32.64 W	
Lighting casing temperature,	GE°C	65°C	65°C	65°C	70°C	
Operating after 60 minutes	65°C				70°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)	4.00A (MAX)	4.25A (MAX)	3 00A (MAX)	2.13A (MAX)	2 404 (MAX)	
(Constant current power supply)	4.00A (MAX)	4.25A (IVIAA)	3.00A (MAX)	2.13A (IVIAA)	3.40A (MAX)	
Max. Trigger Pulse Duration, msec	10 msec					
Duty Cycle			0 - 10%			

Ordering Option	
FLDR-i120B-SR/SR24/IR/IR24/G/B/W	With resistor to limit the current
FLDR-1120D-3R/3R24/IR/IR24/G/D/W	(Use in both constant voltage/ current power supply)
FLDR-i120B-SR/SR24/IR/IR24/G/B/W-0	Internal resistor value= zero ohms
FLDK-1120B-3K/3K24/IK/IK24/G/B/W-0	(only use in constant current power supply)





Connection		SR/IR			SR24/IR24/G/B/W			
Connector Type (Default):	JST	JST SMR-02V			JST SMR-03V			
	Pin	Sigr	nal	Cable Color	Pin	Sig	inal	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	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	20-100 mm





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