

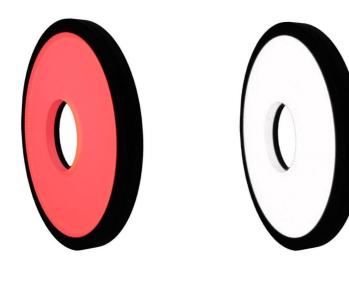


Diffuse Front Light

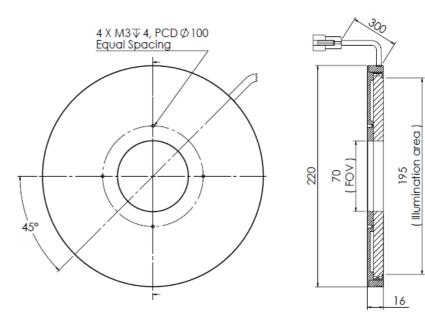


Lighting Picture

Lighting Dimension



Mechanical Information	
Casing Material	Aluminum + Acrylic
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	855g
Lighting Dimension, OØ/IØ/H	OØ=220.0 / IØ=70.0/ H=16 mm
IP Rating	N/A



Unit in mm



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Optical Information						
Led Color	RED (R24)	InfraRed (IR/IR24)	GREEN (G)	BLUE (B)	WHITE (W)	
Wavelength	626nm	850nm	525nm	470nm	xy=(0.31,0.32)	
Illumination (number of LED)	160	168/180	168	168	168	
Illumination Area	Ø195mm					
Led Package	SMD					
Eye Safety (EN 62471:2008)			Exempt Group			

Electrical Information	IR	R24 IR24 G/B/W					
Lighting Supply Voltage	12V ± 2%	24V ± 2%					
(constant voltage mode)							
Supply Ripple Voltage		≤ Vs ± 5%					
Reverse Battery Protection		YES					
Typical Lighting Forward voltage, Vf	9.8 V	22.0 V	21.0 V	21.0 V			
(for zero internal resistor value)	9.8 V	22.0 V	21.0 V	21.0 V			
Continuous Current	0.60A (MAX)	0.64A (MAX) 0.30A (MAX) 0.48A (MAX)					
Power Consumption	7.20 W	15.36 W	7.20 W	11.52 W			
Lighting casing temperature, Operating after 60 minutes	40°C	45°C	36°C	40°C			

Strobe Mode Specification	IR	R24 IR24 G/B/M					
Max. Lighting Supply Voltage	Pulsing at 12VDC to	Pulsing at 24VDC to 48VDC,					
(Constant voltage power supply)	24VDC,	0-10% Duty Cycle					
	0-10% Duty Cycle	Recommended at 36VDC					
	Recommended at 15VDC						
Pulse Current, (Max. 10msec)	1 504 (MAX)	1 604 (MAX)		1 204 (MAX)			
(Constant current power supply)	1.50A (MAX)	1.60A (MAX) 0.75A (MAX) 1.20A (MAX)					
Max. Trigger Pulse Duration, msec	10 msec						
Duty Cycle	0 - 10%						

Ordering Option	
	With resistor to limit the current
FLFR-Si200-R24/IR/IR24/G/B/W	(Use in both constant voltage/ current power supply)
FLFR-Si200-R24/IR/IR24/G/B/W-0	Internal resistor value= zero ohms
FLFR-31200-R24/1R/1R24/G/B/W-0	(only use in constant current power supply)







Connection	IR			R24/G/B/W				
Connector Type (Default):	JST SMR-02V				JST SI	MR-03V		
	Pin	Signal	Cable Color		Pin	Signal	Cable Color	
	1	LED +	Black/White		1	LED +	Black/White	
	2	LED -	Black		2	N.C.		
					3	LED -	Black	
Cable Length out from lighting:	600 mm							

Additional Information	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	20-200 mm

FLFR-Si200





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