



Diffuse Front Light

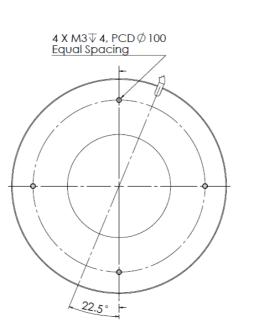


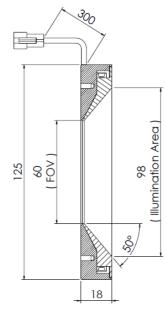
Lighting Picture

Lighting Dimension



Mechanical Information	
Casing Material	Aluminium + Acrylic
Weight	290g
Operating Temperature	0°C to 40°C, Humidity 20%-85%
Storage Temperature	-20°C to 60°C, Humidity 20%-85%
Lighting Dimension, OØ/IØ/H	OØ=125.0 / IØ=60.0 / H=18.0 mm
IP Rating	IP50





Unit in mm



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Led Colour Optical Information	RED (R/R24)	InfraRed (IR/IR24)	GREEN (G)	BLUE (B)	WHITE (W)				
Wavelength / Color temperature	626nm	850nm	850nm 525nm 470nm		xy=(0.31,0.32)				
Illumination (Number of LED)	100/99	100/99 98/90 98							
Illumination Area	Ø98mm								
Led Package		SMD							
Eye Safety (EN 62471:2008)	Exempt Group								
Optimal Working Distance	10-50mm								

Continuous Mode		Voltage	/oltage Drive (With resistor)				Current Drive (Without resistor)				
Continuous mode	R	IR	R24	IR24	G/B/W	R	IR	R24	IR24	G/B/W	
Max. Lighting Supply Voltage	12VD	C ± 2%		24VDC ± 2%)	11VDC ± 2%	10VDC ± 2%	23VDC ± 2%	22VDC	; ± 2%	
Typical Lighting Forward Voltage (Vf)	10.0V	9.0V	22.0	21.0V	21.0V	10.0V	9.0V	22.0	21.	VO	
Max. Current	0.80A (MAX)	0.35A (MAX)	0.36A (MAX)	0.15A (MAX)	0.28A (MAX)	0.80A (MAX)	0.35A (MAX)	0.36A (MAX)	0.15A (MAX)	0.28A (MAX)	
Max. Power	9.60W	4.20W	8.64W	3.60W	6.72W	8.80W	3.50W	8.28W	3.30W	6.16W	

Strobo Modo Specification			Voltage Drive				Current Drive					
Strobe Mode Specification	R	IR	R24	IR24	G/B/W	R	IR	R24	IR24	G/B/W		
Max Lighting Supply Voltage	Pulsing at 12VDC to 24VDC,		Pulsing at 24VDC to 48VDC, Recommended at 36VDC			Pulsing at 11VDC	Pulsing at 10VDC	Pulsing at 23VDC	Pulsing a	at 22VDC		
Max. Lighting Supply Voltage		nended at /DC										
Max. Current	2.00A	0.88A	0.90A	0.38A	0.70A	2.00A	0.88A	0.90A	0.38A	0.70A		
	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)		
Max. Trigger Pulse Duration	10 msec											
Duty Cycle	< 10%											

Ordering Part Number	Controller Type	Description				
FLKR-Si100-R/R24/IR/IR24/G/B/W	Voltage Drive	With Resistor				
FLRR-31100-R/R24/IR/IR24/9/8/W	Voltage Drive	(Use in both constant voltage/ current power supply)				
	Current Drive	Without Resistor (0 Ohm)				
FLKR-Si100-R/R24/IR/IR24/G/B/W-0	Current Drive	(Only use in constant current power supply)				







Connection	(Voltage & Current drive)							
Connector Type (Default):		JST SMR-02V JST SM						
	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:	300 mm							

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	MY11/00845





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