



## Diffuse Front Light

# FLKR-Si100

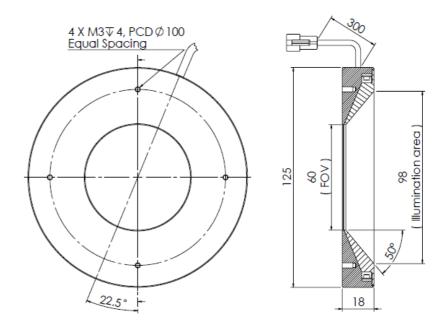
### **Lighting Picture**







Mechanical Information	
Casing Material	Aluminum + Acrylic
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	290 g
Lighting Dimension, OØ/IØ/H	OØ=125.0 / IØ=60.0 / H=18.0 mm
IP Rating	IP 50



Unit in mm





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

Electrical Information	R	IR	R24	IR24	G/B/W		
Lighting Supply Voltage	12\/.	± 2%	24V ± 2%				
(constant voltage mode)	120	£ 2 /0	24v ± 2/0				
Supply Ripple Voltage		≤ Vs ± 5%					
Reverse Battery Protection			YES				
Typical Lighting Forward voltage, Vf	11.0 V	9.8 V	22.0 V	21.0 V	21.0 V		
(for zero internal resistor value)	11.0 V	9.6 V	22.0 V	21.0 V	21.0 V		
Continuous Current	0.80A (MAX)	0.35A (MAX)	0.40A (MAX)	0.15A (MAX)	0.28A (MAX)		
Power Consumption	9.60 W	4.20 W	9.60 W	3.60 W	6.72 W		
Lighting casing temperature,	60°C	40°C	60°C	40°C	48°C		
Operating after 60 minutes	00 C	40 C	00 C	40 C	40 C		

Strobe Mode Specification	R IR		R24	R24 IR24			
Max. Lighting Supply Voltage	Pulsing at 12V	DC to 24VDC,	Pulsing at 24VDC to 48VDC,				
(Constant voltage power supply)	0-10% Duty Cycle		0-10% Duty Cycle				
	Recommend	ed at 15VDC	Recommended at 36VDC				
Pulse Current, (Max. 10msec) (Constant current power supply)	2.00A (MAX)	0.88A (MAX)	1.00A (MAX)	0.38A (MAX)	0.70A (MAX)		
Max. Trigger Pulse Duration, msec	10 msec						
Duty Cycle			0 - 10%				

Ordering Option	
FLKR-Si100-R/R24/IR/IR24/G/B/W	With resistor to limit the current
FLRR-31100-R/R24/IR/IR24/G/D/W	(Use in both constant voltage/ current power supply)
FLKR-Si100-R/R24/IR/IR24/G/B/W-0	Internal resistor value= zero ohms
FLRR-31100-R/R24/IR/IR24/G/B/W-0	(only use in constant current power supply)





Connection	R/IR			R24/IR24/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	2	N.C.		· a
					3	LED -	Black	
Cable Length out from lighting:				300	mm			

Additional Information	R/R24/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 (at 25°C ambient temperature)	50,000 hours
Intensity Controller Selection	PSA-Series, PSD-Series, LIC-Series
CE Conformity	YES
RoHS Compliance	YES
ISO 9001:2008	SG11/03751

Application	
Optimal Working Distance	10-50 mm





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