



Diffuse Front Light

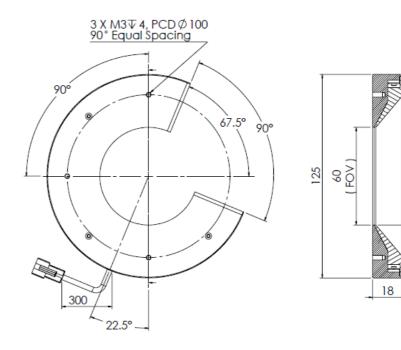
FLKR-Si100-HC270

Lighting Picture

Lighting Dimension



Mechanical Information	
Casing Material	Aluminum + Acrylic
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	230 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)	GREEN (G)	BLUE (B)	WHITE (W)	
Wavelength	626nm	850nm	525nm	470nm	xy=(0.31,0.32)	
Illumination (number of LED)	72/70	70	70	70	70	
Illumination Area	Ø98mm					
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	9.8 V	22.0 V	21.0 V		
Continuous Current	0.72 (MAX) 0.25A (MAX)		0.28A (MAX)	0.20A (MAX)		
Power Consumption	8.64 W	8.64 W 3.00 W 6.72 W 4.		4.80 W		
Lighting casing temperature, Operating after 60 minutes	55°C	40°C	55°C	45°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% D	uty Cycle	0-10% Duty Cycle		
	Recommend	ed at 15VDC	Recommended at 36VDC		
Pulse Current, (Max. 10msec)	1.80A (MAX)	0.634 (MAY)	0.704 (MAX)	0.50A (MAX)	
(Constant current power supply)	1.80A (MAX) 0.63A (MAX) 0.70A (MAX) 0.50A (MAX)				
Max. Trigger Pulse Duration, msec	10 msec				
Duty Cycle	0 - 10%				

Ordering Option	
FLKR-Si100-HC270-R/R24/IR/G/B/W	With resistor to limit the current
FLRR-31100-110270-R/R24/IR/G/B/W	(Use in both constant voltage/ current power supply)
FLKR-Si100-HC270-R/R24/IR/G/B/W-0	Internal resistor value= zero ohms
FLRR-31100-HC270-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 SMR-02V				JST S	MR-03V		
	Pin	Signal	Cable Color		Pin	Signal	Cable Color	
	1	LED +	Black/White		1	LED +	Black/White	
	2	LED -	Black	· a	2	N.C.		(* m
					3	LED -	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 (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	5-50 mm





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