



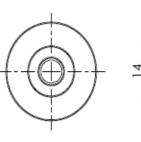


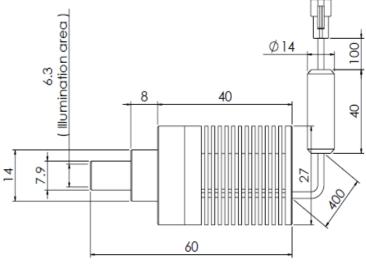
Lighting Picture

Lighting Dimension



Mechanical Information					
Casing Material	Aluminium + Acrylic				
Weight	50 g				
Operating Temperature	0°C to 40°C, Humidity 20%-85%				
Storage Temperature	-20°C to 60°C, Humidity 20%-85%				
Lighting Dimension, ØxH	Ø27.0 x 60.0 mm				





Unit in mm





Led Colour Optical Information	RED(R/R24)	INFRARED (IR)	GREEN(G/G12)	BLUE (B/B12)	WHITE (W/W12)			
Wavelength / Color temperature	630nm	850nm	535nm	485nm	xy=(0.31,0.32)			
Illumination (Number of LED)		1						
Illumination Area		Ø6.3mm						
Led Package	SMD							
Eye Safety (EN 62471:2008)	RG-2 (Moderate Risk): Caution. Do not stare at exposed lamp in operation. May be harmful to eyes. Exempt Group							

Continuous Mode		Voltage Drive (With	Resistor)		Current Drive (Without Resistor)		
Continuous mode	R	IR/G12/B12/W12 R24 G/B/W		R/R24	IR/G/B/W		
Max. Lighting Supply Voltage	12 V	12 VDC ± 2%		C ± 2%	2.2 VDC ± 2%	3VDC ± 2%	
Typical Lighting Forward Voltage (Vf)	2.2V	3.0V	2.2V 3.0V		2.2V	3.0V	
Max. Current	0.35A (MAX)				0.35A	(MAX)	
Max. Power	0.77W	1.05W	0.77W 1.05W		0.77W	1.05W	

Strobe Mode	Voltage	Drive	Current Drive				
Strobe Mode	R/IR/G12/B12/W12	/G12/B12/W12 R24/G/B/W		IR/G/B/W			
Max. Lighting Supply Voltage	Pulsing at 12VDC to 24 VDC, Recommended at 15VDC Pulsing at 24VDC to 48VDC, Recommended at 36VDC		Pulsing at 2.2VDC	Pulsing at 3VDC			
Max. Current	0.88A	(MAX)	0.88	0.88A (MAX)			
Max. Trigger Pulse Duration	10 msec						
Duty Cycle	< 10%						





Ordering Part Number	Controller Type	Description
FHLV-Si27N2-	Voltago Drivo	With Resistor
R/R24/IR/G12/B12/W12/G/B/W	Voltage Drive	(Use in both constant voltage/ current power supply)
FHLV-Si27N2-	Current Drive	Without Resistor (0 Ohm)
R/R24/IR/G12/B12/W12/G/B/W-0	Current Drive	(Only use in constant current power supply)

External Resistor	Vs=5	Vs=5VDC Vs=24VDC Vs=24VDC									
part number	Strobe/Co	ontinuous	Stro	Strobe		Continuous		Strobe		Continuous	
	Driving with (0.35 A)	Driving with (0.70 A)	Driving with (0.35 A)	Driving with (0.70 A)	Driving with (0.35 A)	Driving with (0.70 A)	Driving with (0.35 A)	Driving with (0.70 A)	Driving with (0.35 A)	Driving with (0.70 A)	
R/IR	FRB-i8.2	FRB-i3.3	FRB-i27	FRB-i15	FRB-i27C	FRB-i15C	N/A	N/A	N/A	N/A	
G12/B12/W12	FRB-i5.1	FRB-i2.7	FRB-i22	FRB-i12	FRB-i22C	FRB-i12C	N/A	N/A	N/A	N/A	
R24 / G/B/W	N/A	N/A	N/A	N/A	N/A	N/A	FRB-i56	FRB-i27	FRB-i56C	FRB-i27C	
FRB-i8.2 / FRB-i3.3 / FRB-i5.1 / FRB-i2.7 / FRB-i27 / FRB-i15 / FRB-i22 / FRB-i12 / FRB-i56 / FRB-i27											
FRB-i27C / FRB-i15C/ FRB-i22C / FRB-i12C / FRB-i56C											
No resistor needed if lighting work with constant current controller											





Connection	R/IR/G12/B12/W12				R24/IR24/G/B/W			
Connector Type (Default):	JST SM	R-02V (Male)		, a	JST SM	R-03V (Male)		
	Pin	Signal		Cable Color	Pin	Signal		Cable Color
	1	LED + LED -		Black/White	1	LED +		Black/White
	2			Black	2	N.C.		
					3	LEI	D -	Black
Cable Length	540 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				





<u>Disclaimer</u>

IMPORTANT NOTICE:

ALL PRODUCT, PRODUCT DATA SHEET AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE QUALITY, RELIABILITY, FUNCTION, DESIGN OR OTHERWISE.

Other disclaimers:

- 1) FALCON MV (M) SDN.BHD (termed as FALCON), its affiliates, agents, distributors and employees, and all persons acting on its or their behalf (FALCON collectively), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.
- 2) FALCON makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, FALCON disclaims:
 - (i) any and all liability arising out of the application or use of any product,
 - (ii) any and all liability, including without limitation special, consequential or incidental damages, and
 - (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- 3) Information and statements regarding the suitability of products for certain types of applications are based on FALCON's knowledge of typical requirements that are often placed on our products datasheet for generic applications. Such statements or information are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to verify and/or validate that a particular product with the properties described in our product data sheet is suitable for use in a particular application.
- 4) Parameters provided in product datasheets and/or specifications may vary in different applications and performance may vary over time.

 All operating parameters, including typical parameters, must be verified and/or validated for each customer application by the customer's technical experts.
- 5) Except as expressly indicated in writing, FALCON I's products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the product could result in personal injury or death. Customers using or selling our products not expressly indicated for use in such applications do so at their own risk and agree to fully indemnify and hold FALCON and its distributors harmless from and against any and all claims, liabilities, expenses and damages arising or resulting in connection with such use or sale, including attorneys fees, even if such claim alleges that FALCON or its distributor was negligent regarding the design or manufacture of the part. Please contact authorized FALCON personnel to obtain written terms and conditions regarding products designed for such applications.