

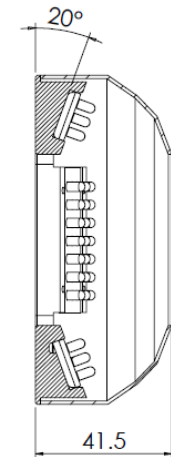
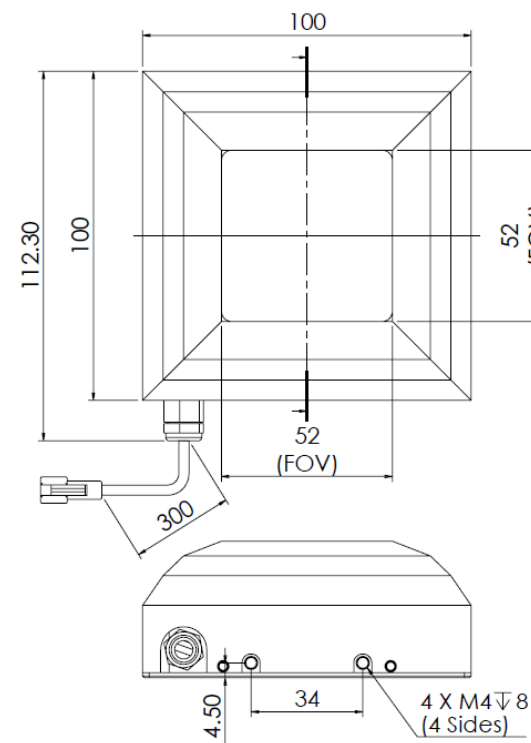
Flat Dome Light

FFDQ-i52

Lighting Picture



Lighting Dimension



Unit in mm

Mechanical Information	
Casing Material	Metal + Aluminium
Weight	321g
Operating Temperature	0°C to 40°C, Humidity 20%-85%
Storage Temperature	Temp 0-35°C, Humidity 20-85%
Lighting Dimension W x L x H	100.0 x 100.0 x 41.5 mm
IP Rating	N/A



FFDQ-i52

Asia Office: www.falconmv.com, Europe Office: www.falcon-illumination.de
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Led Colour	GREEN (G)	BLUE (B)	WHITE (W)
Optical Information			
Wavelength / Color temperature	525nm	470nm	Xy=(0.31,0.32)
Illumination (Number of LED)	120	120	120
Illumination Area	52 x 52mm		
Led Package	T1 3mm		
Eye Safety (EN 62471:2008)	Exempt Group		
Optimal Working Distance	10-75 mm		

Continuous Mode	Voltage Drive (With resistor)	Current Drive (Without resistor)
	G/B/W	G/B/W
Supply Voltage To Controller	24VDC $\pm$ 2%	22VDC $\pm$ 2%
Lighting Forward Voltage, Vf	21.0 V	21.0 V
Max. Current	0.40A (MAX)	0.32A (MAX)
Max. Power	9.60W	8.80W

Strobe Mode	Voltage Drive	Current Drive
	G/B/W	G/B/W
Max. Lighting Supply Voltage	Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle Recommended at 36VDC	Pulsing at 22VDC
Max. Current	0.40 – 1.0A (MAX)	0.40 – 1.0A (MAX)
Max. Trigger Pulse Duration	10 msec	
Duty Cycle	0 - 10%	

Ordering Part Number	Description
FFDQ-i52-G/B/W	With Resistor (Use in both constant voltage/ current power supply)
FFDQ-i52-G/B/W-0	Without Resistor (0 Ohm) (Only use in constant current power supply)



Connection	G/B/W			
Connector Type (Default):	Pin	Signal	Cable Color	
	1	LED +	Black/White	
	2	N.C.	---	
	3	LED -	Black	
Cable Length out from lighting:	300mm			

Additional Information	Details
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
Supply Ripple Voltage	$\leq V_s \pm 5\%$
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	MY21/1811030613



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