



Boroscope Ring Light

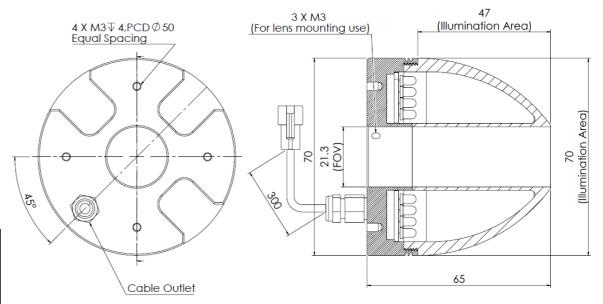
[] FLBR-i70

Lighting Picture

Lighting Dimension



Mechanical Information		
Casing Material	Aluminium	
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%	
Weight	162g	
Lighting Dimension, ØxH	Ø70.0 x 65.0mm	
IP Rating	N/A	



Unit in mm







Optical Information				
Led Color	RED (SR24)	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	626nm	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	77	77	77	77
Illumination Area	Ø70mm			
Led Package	T1 3mm			
Eye Safety (EN 62471:2008)	Exempt Group			

Electrical Information	SR24	G/B/W	
Lighting Supply Voltage	24V ± 2%		
(constant voltage mode)	Z4V ± Z70		
Supply Ripple Voltage	≤ Vs ± 5%		
Reverse Battery Protection	YES		
Typical Lighting Forward voltage, Vf	22.0 V	21.0 V	
(for zero internal resistor value)	22.0 V		
Continuous Current	0.21A(MAX)	0.22A(MAX)	
Power Consumption	5.04 W	5.28 W	
Lighting casing temperature,	N/A	52°C	
Operating after 60 minutes	IV/A		

Strobe Mode Specification	SR24	G/B/W	
Max. Lighting Supply Voltage	Pulsing at 24VDC to 48VDC,		
(Constant voltage power supply)	0-10% Duty Cycle		
	Recommended at 36VDC		
Pulse Current, (Max. 10msec)	0.53A(MAX)	0.55A(MAX)	
(Constant current power supply)	0.55A(WAA)		
Max. Trigger Pulse Duration, msec	10 msec		
Duty Cycle	0 - 10%		

Ordering Option		
FLBR-i70-SR24/G/B/W	With resistor to limit the current	
	(Use in both constant voltage/ current power supply)	
FLBR-i70-SR24/G/B/W-0	Internal resistor value= zero ohms	
	(only use in constant current power supply)	







Connection	SR24/G/B/W			
Connector Type (Default):	JST SMR-03V			
	Pin	Signal	Cable Color	
	1	LED +	Black/White	
	2	N.C.		(*a)
	3	LED -	Black	
Cable Length out from lighting:	300 mm			

Additional Information	SR24/G/B/W		
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	50,000 hours		
(at 25°C ambient temperature)			
Intensity Controller Selection	PSA-Series, PSD-Series, LIC-Series		
CE Conformity	YES		
RoHS Compliance	YES		
ISO 9001:2008	SG11/03751		

Application	
Optimal Working Distance	5-100 mm







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