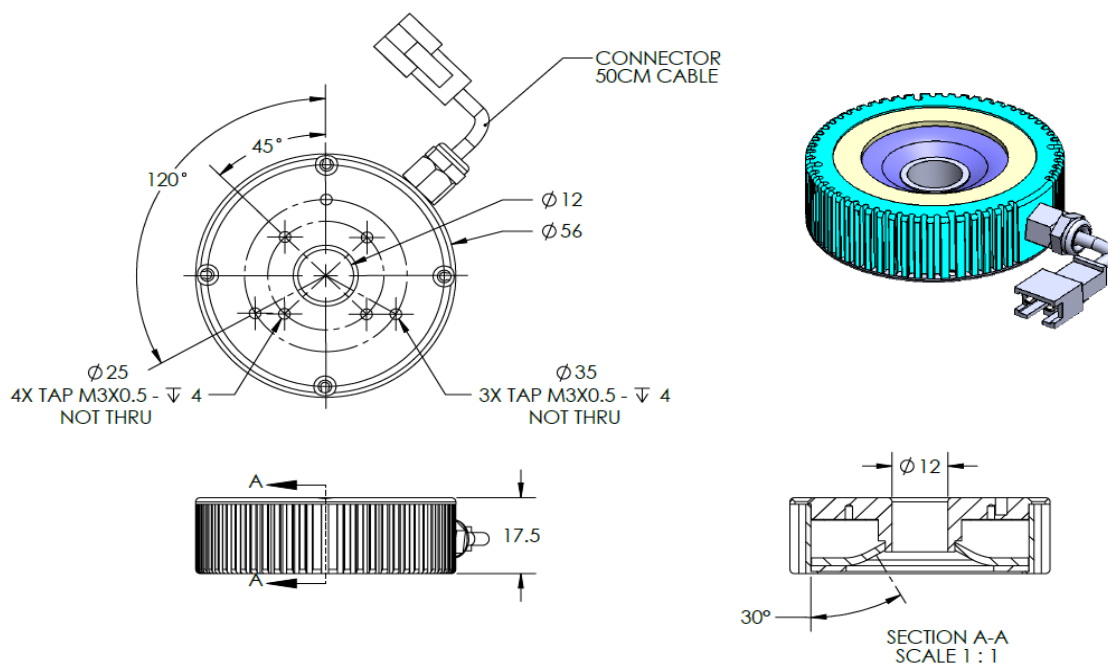




ILLUMINATOR DATA-ID

DFR4-30-050-1-W-24V

Lighting Dimension




Mechanical Information	
Casing Material	Aluminium
Storage Temperature Range	Temp 0-45°C, Humidity 20-85%
Weight	80 g
Length / Outer Diameter	56 mm
Width / Inner Diameter	12 mm
Thickness / Height	17.5 mm



ILLUMINATOR DATA-ID

DFR4-30-050-1-W-24V

Optical Information																											
Part Number		DFR4-30-050-1-W-24V																									
LED Color		WHITE																									
Wavelength	(nm)	*Refer to the Chromaticity Table below																									
Intensity (±15%)	(Lux)	48138	38766	32518																							
Working Distance	(mm)	8	12	16																							
Illumination (number of row)		1																									
Illumination Active Area																											
Active Length / Outer Diameter	(mm)	31.8																									
Active Width / Inner Diameter	(mm)	14																									
Emission angle	(deg.)	30																									
Eye Safety Class (IEC62471)		EXEMPT																									
*CHROMATICITY TABLE		<table border="1"> <tr> <td>X</td> <td>0.296</td> <td>0.287</td> <td>0.307</td> <td>0.311</td> <td></td> <td>X</td> <td>0.311</td> <td>0.307</td> <td>0.33</td> <td>0.33</td> </tr> <tr> <td>Y</td> <td>0.276</td> <td>0.295</td> <td>0.315</td> <td>0.294</td> <td></td> <td>Y</td> <td>0.294</td> <td>0.315</td> <td>0.339</td> <td>0.318</td> </tr> </table>				X	0.296	0.287	0.307	0.311		X	0.311	0.307	0.33	0.33	Y	0.276	0.295	0.315	0.294		Y	0.294	0.315	0.339	0.318
X	0.296	0.287	0.307	0.311		X	0.311	0.307	0.33	0.33																	
Y	0.276	0.295	0.315	0.294		Y	0.294	0.315	0.339	0.318																	
Electrical Information																											
Lighting Supply Voltage (constant voltage mode)		24V ± 2%																									
Continuous Current	(mA)	108																									
Power Consumption	(W)	2.6																									
Lighting casing temperature, Operating after 60 minutes	°C	47																									
Strobe Mode Specification																											
Pulse Operation		YES																									
Max. Lighting Supply Voltage (Constant voltage power supply)	(V)	Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle Recommended at 36VDC																									
Pulse Current, (Max. 10msec) (Constant current power supply)	(mA)	324																									
Max. Trigger Pulse Duration	(msec)	10																									
Duty Cycle		0-10%																									
Additional Information																											
Additional Cooling Method		Attached to machine part for better heat dissipation																									
Intensity Controller Selection		ANG, ST, SD and SDA Series																									
CE Conformity		YES																									
RoHS Compliance		YES																									
Connection																											
Connector Type (Default):		JST SMR-03V																									
Cable Length out from lighting :	(mm)	500																									
Pin Configuration :		Pin	Signal	Cable Color																							
		1	LED +	RED																							
		2	N.C.	---																							
		3	LED -	WHITE																							
																											
Application																											
Illumination Type		Diffused Illumination																									
Application Use		Printed character on IC chips, PCB component, printing on caps, and wafer OCR inspection.																									



ILLUMINATOR DATA-ID

DFR4-30-050-1-W-24V

Uniform Graph (Relative Irradiation Strength) - Representative pattern

WD	Tolerance	Diameter
12.5mm	10%	14mm
12.5mm	20%	23mm
12.5mm	30%	27mm

