

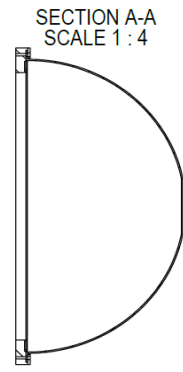
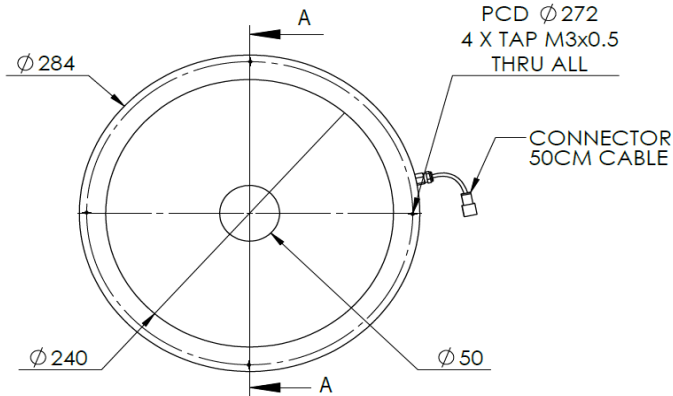
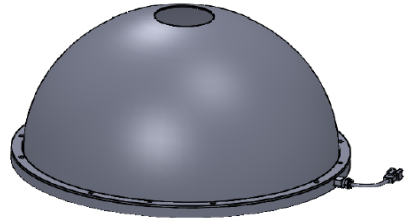
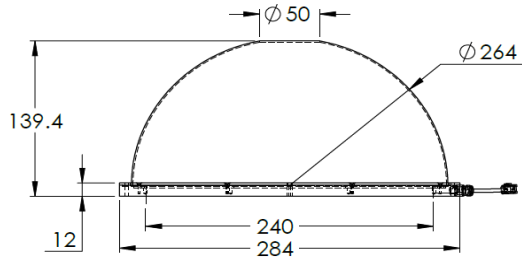


OPTO ENGINEERING

ILLUMINATOR DATA

LT5WRG250-00-1-RGBW-24V

Lighting Dimension



Mechanical Information	
Casing Material	Aluminium
Storage Temperature Range	0 - 45°C
Storage Humidity Range	20 - 85%
Weight	780 g
Length / Outer Diameter	284 mm
Width / Inner Diameter	50 mm
Thickness / Height	139.4 mm

ILLUMINATOR DATA

LT5WRG250-00-1-RGBW-24V

Lighting Information													
Part Number	LT5WRG250-00-1-RGBW-24V												
LED Color	RED			GREEN			BLUE			WHITE			
Wavelength	630 nm			525 nm			470 nm			refer to chromaticity table			
Working Distance	50 mm	80 mm	100 mm	50 mm	80 mm	100 mm	50 mm	80 mm	100 mm	50 mm	80 mm	100 mm	
Intensity (±15%)	2880 lx	2320 lx	1900 lx	7570 lx	6070 lx	5050 lx	7050 lx	5680 lx	4670 lx	5960 lx	4830 lx	3950 lx	
Illumination (number of row)	1												
Illumination Active Area	Active Length / Outer Dia.			240 mm									
	Active Width / Inner Dia.			50 mm									
Emission angle	0												
Eye Safety Class (IEC62471)	EXEMPT			EXEMPT			II			EXEMPT			
Chromaticity Table For White colour only				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				
Rated Constant Voltage	24V±2%			
Rated Constant Current	330 mA	330 mA	330 mA	330 mA
Power Consumption	7.92 W	7.92 W	7.92 W	7.92 W
Casing temperature, After 60 minutes operation	43.6 °C			
Max. continuous current of RED, GREEN & BLUE LEDs on at the same time	*It is not recommended to turn on Red, Green and Blue colour at the same time. Refer to Maximum Simultaneous Current Output section in the last page for maximum current that can be supplied for each colour. Failure in following this may results in damaging the lighting.			


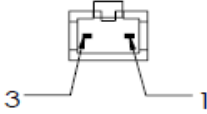
Strobe Mode Specification				
**Normal Strobe Voltage	24 V			
**Normal Strobe Current	330 mA	330 mA	330 mA	330 mA
Overdrive Voltage Range	Min: 36 V Max: 48 V	Min: 36 V Max: 48 V	Min: 36 V Max: 48 V	Min: 36 V Max: 48 V
Overdrive Current Range	Min: 0.24 A Max: 0.4 A	Min: 0.29 A Max: 0.49 A	Min: 0.35 A Max: 0.59 A	Min: 0.42 A Max: 0.70 A
Max. pulse current of RED, GREEN & BLUE LEDs on at the same time	*It is not recommended to turn on Red, Green and Blue colour at the same time. Refer to Maximum Simultaneous Current Output section in the last page for maximum current that can be supplied for each colour. Failure in following this may results in damaging the lighting.			
Recommended Overdrive Voltage	36V			
***Max. Trigger Pulse Duration	10 msec			
***Max. Duty Cycle	10%			

**Normal strobe means the lighting is operated using the rated power. Overdrive means the power supplied to the lighting exceeded the rated power.

***Overdrive condition must not exceed the max. trigger pulse duration and max. duty cycle. Failure in following this may results in damaging the lighting.

ILLUMINATOR DATA

LT5WRG250-00-1-RGBW-24V












Connection Information			
Connector Type (Default)	JST SMR-03V		
Cable Length	50 cm		
Pin Configuration 	Pin	Signal	Cable Colour
	1	LED +	Red
	2	N.C	-
	3	LED -	White
			

Additional Information	
Additional Cooling Method	Attached to machine part for better heat dissipation
Intensity Controller Selection	SD, ST, ANG, LC, SDA, SDP series
CE Conformity	YES
RoHS Compliance	YES

Application	
Illumination Type	Indirect Dome Illumination
Application Use	Cracks, Chips, Stains & Marks on Circular or Cylindrical Object Inspection, Solder and Substrate Inspection

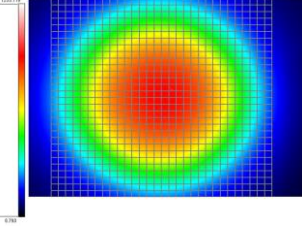
ILLUMINATOR DATA

LT5WRG250-00-1-RGBW-24V

Maximum Simultaneous Current Output Information		
Colour	Current Limit (A)	Remarks
 SINGLE COLOUR : RED	0.33 A	TOTAL CURRENT OUTPUT : 0.33 A RECOMMENDED OVERDRIVE CURRENT : 0.42 A (36 V) ** OPTIMUM FOR SINGLE COLOUR
 SINGLE COLOUR : GREEN	0.33 A	TOTAL CURRENT OUTPUT : 0.33 A RECOMMENDED OVERDRIVE CURRENT : 0.42 A (36 V) ** OPTIMUM FOR SINGLE COLOUR
 SINGLE COLOUR : BLUE	0.33 A	TOTAL CURRENT OUTPUT : 0.33 A RECOMMENDED OVERDRIVE CURRENT : 0.42 A (36 V) ** OPTIMUM FOR SINGLE COLOUR
 COMBINE 2 COLOUR: RED & BLUE	0.33 A	TOTAL CURRENT OUTPUT : 0.33 A ****[EXAMPLE : RED = 0.17 A , BLUE = 0.17 A] *****(OVERDRIVE STROBE MODE EXAMPLE : RED = 0.21 A , BLUE = 0.21 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A 
 COMBINE 2 COLOUR: RED & GREEN	0.33 A	TOTAL CURRENT OUTPUT : 0.33 A ****[EXAMPLE : RED = 0.17 A , GREEN = 0.17 A] *****(OVERDRIVE STROBE MODE EXAMPLE : RED = 0.21 A , GREEN = 0.21 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A 
 COMBINE 2 COLOUR: GREEN & BLUE	0.33 A	TOTAL CURRENT OUTPUT : 0.33 A ****[EXAMPLE : GREEN = 0.17 A , BLUE = 0.17 A] *****(OVERDRIVE STROBE MODE EXAMPLE : GREEN = 0.21 A , BLUE = 0.21 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A 
 COMBINE COLOUR: RED, GREEN & BLUE	0.33 A	TOTAL CURRENT OUTPUT : 0.33 A ****[EXAMPLE : RED = 0.11 A , GREEN = 0.11 A , BLUE = 0.11 A] *****(OVERDRIVE STROBE MODE EXAMPLE : RED = 0.14 A , GREEN = 0.14 A , BLUE = 0.14 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A 

ILLUMINATOR DATA

LT5WRG250-00-1-RGBW-24V

Lighting Pattern																																									
Working Distance	For further details please contact us.																																								
Display and Image																																									
Data Results	<table border="1"> <thead> <tr> <th>Horizontal</th> <th>Meas.(mm)</th> <th>Vertical</th> <th>Meas.(mm)</th> </tr> </thead> <tbody> <tr> <td>90%</td> <td>100</td> <td>90%</td> <td>105</td> </tr> <tr> <td>80%</td> <td>139</td> <td>80%</td> <td>142</td> </tr> <tr> <td>70%</td> <td>169</td> <td>70%</td> <td>171</td> </tr> <tr> <td>60%</td> <td>194</td> <td>60%</td> <td>197</td> </tr> <tr> <td>50%</td> <td>218</td> <td>50%</td> <td>223</td> </tr> <tr> <td>40%</td> <td>244</td> <td>40%</td> <td>248</td> </tr> <tr> <td>30%</td> <td>274</td> <td>30%</td> <td>278</td> </tr> <tr> <td>20%</td> <td>307</td> <td>20%</td> <td>288</td> </tr> <tr> <td>10%</td> <td>359</td> <td>10%</td> <td>288</td> </tr> </tbody> </table>	Horizontal	Meas.(mm)	Vertical	Meas.(mm)	90%	100	90%	105	80%	139	80%	142	70%	169	70%	171	60%	194	60%	197	50%	218	50%	223	40%	244	40%	248	30%	274	30%	278	20%	307	20%	288	10%	359	10%	288
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