

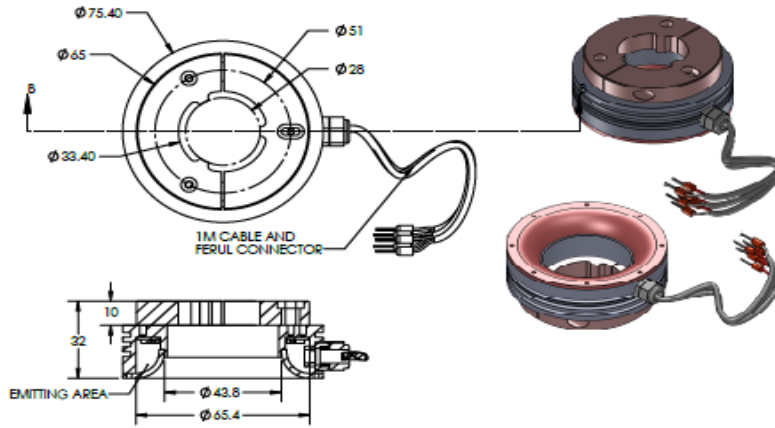


OPTO ENGINEERING

ILLUMINATOR DATA

LRTN075RGBW

Lighting Dimension



Mechanical Information

Casing Material	Aluminium
Storage Temperature Range	0 - 45°C
Storage Humidity Range	20 - 85%
Weight	100g
Length / Outer Diameter	75.4mm
Width / Inner Diameter	28mm
Thickness / Height	32mm



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Lighting Information																																
Part Number	LRTN075RGBW																															
LED Color	RED			GREEN			BLUE			WHITE																						
Wavelength	630			525			470			REFER CHROMACITY TABLE																						
Working Distance	5mm	20mm	35mm	5mm	20mm	35mm	5mm	20mm	35mm	5mm	20mm	35mm																				
Intensity (±15%)	FOR FURTHER INFORMATION PLEASE CONTACT US																															
Illumination (number of row)	1																															
Illumination Active Area	Active Length / Outer Dia.			65.4mm																												
	Active Width / Inner Dia.			46.8mm																												
Emission angle	0																															
Eye Safety Class (IEC62471)	EXEMPT			EXEMPT			II			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>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>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																							
For White colour only																																

Electrical Information				
Rated Constant Voltage	24V			
Rated Constant Current	75mA	90mA	90mA	90mA
Power Consumption	1.8W	2.16W	2.16W	2.16W
Casing temperature, After 60 minutes operation	59.6			
Max. continous 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	24V			
*Normal Strobe Current	75mA	90mA	90mA	90mA
Overdrive Voltage Range	Min: 36V Max: 48V	Min: 36V Max: 48V	Min: 36V Max: 48V	Min: 36V Max: 48V
Overdrive Current Range	Min: 219mA Max: 373mA	Min: 260mA Max: 478mA	Min: 260mA Max: 478mA	Min: 428mA Max: 755mA
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.


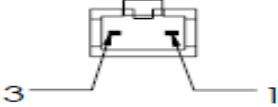
***Overdrive condition must not exceed the max. trigger pulse duration and max. duty cycle. Failure in following this may results in damaging the lighting.



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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






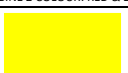





Application	
Illumination Type	Diffused Ring Illumination
Application Use	Shining Surface and Food Packaging Inspection



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Maximum Simultaneous Current Output Information		
Colour	Current Limit (A)	Remarks
 SINGLE COLOUR : RED		TOTAL CURRENT OUTPUT : 0.5 A RECOMMENDED OVERDRIVE CURRENT : 1 A (36 V) ** OPTIMUM FOR SINGLE COLOUR
 SINGLE COLOUR : GREEN		TOTAL CURRENT OUTPUT : 0.4 A RECOMMENDED OVERDRIVE CURRENT : 1.17 A (36 V) ** OPTIMUM FOR SINGLE COLOUR
 SINGLE COLOUR : BLUE		TOTAL CURRENT OUTPUT : 0.45 A RECOMMENDED OVERDRIVE CURRENT : 1.21 A (36 V) ** OPTIMUM FOR SINGLE COLOUR
 COMBINE 2 COLOUR: RED & BLUE		TOTAL CURRENT OUTPUT : 0.5 A ****(EXAMPLE : RED = 0.25 A , BLUE = 0.25 A) *****(OVERDRIVE STROBE MODE EXAMPLE : RED = 0.5 A , BLUE = 0.5 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A 
 COMBINE 2 COLOUR: RED & GREEN		TOTAL CURRENT OUTPUT : 0.5 A ****(EXAMPLE : RED = 0.25 A , GREEN = 0.25 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A 
 COMBINE 2 COLOUR: GREEN & BLUE		TOTAL CURRENT OUTPUT : 0.5 A ****(EXAMPLE : GREEN = 0.25 A , BLUE = 0.25 A) *****(OVERDRIVE STROBE MODE EXAMPLE : RED = 0.5 A , BLUE = 0.5 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A 
 COMBINE COLOUR: RED, GREEN & BLUE		TOTAL CURRENT OUTPUT : 0.5 A ****(EXAMPLE : RED = 0.16 A , GREEN = 0.16 A , BLUE = 0.16 A) *****(OVERDRIVE STROBE MODE EXAMPLE : RED = 0.33 A , GREEN = 0.33 A , BLUE = 0.33 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A 

LRTN075RGBW

Lighting Pattern						
Working Distance	For further details please contact us.					
Display and Image						
Data Results	Horizontal		Meas.(mm)	Vertical		Meas.(mm)
	90%			90%		
	80%			80%		
	70%			70%		
	60%			60%		
	50%			50%		
	40%			40%		
	30%			30%		
	20%			20%		
	10%			10%		