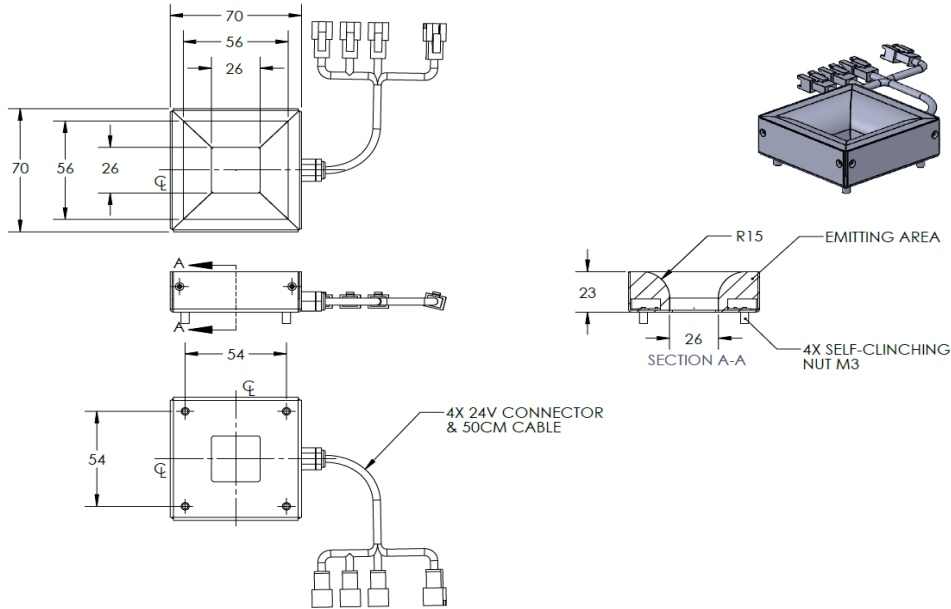




ILLUMINATOR DATA (ID)

DLC-00-070-1-RGBW-24V

Lighting Dimension



Mechanical Information	
Casing Material	Aluminium
Storage Temperature Range	0 - 45°C
Storage Humidity Range	20 - 85%
Weight	264 g
Length / Outer Diameter	70 mm
Width / Inner Diameter	70 mm
Thickness / Height	23 mm





ILLUMINATOR DATA (ID)

DLC-00-070-1-RGBW-24V

Lighting Information												
Part Number	DLC-00-070-1-RGBW-24V											
LED Color	RED			GREEN			BLUE			WHITE		
Wavelength	630 nm			525 nm			470 nm			refer to chromaticity table		
Working Distance	10 mm	15 mm	20 mm	10 mm	15 mm	20 mm	10 mm	15 mm	20 mm	10 mm	15 mm	20 mm
Intensity (±15%)	9840 lx	9660 lx	8650 lx	26200 lx	24500 lx	22700 lx	24300 lx	24500 lx	22700 lx	19200 lx	19400 lx	18500 lx
Illumination (number of row)	1											
Illumination Active Area	Active Length / Outer Dia.			67.8 mm								
	Active Width / Inner Dia.			67.8 mm								
Emission angle	0											
Eye Safety Class (IEC62471)	EXEMPT			EXEMPT			II			EXEMPT		
Chromaticity Table For White colour only	X			Y			X			Y		
	0.296	0.287	0.307	0.311	0.276	0.295	0.315	0.294	0.311	0.307	0.33	0.33

Electrical Information				
Rated Constant Voltage	24V±2%			
Rated Constant Current	120 mA	120 mA	120 mA	120 mA
Power Consumption	2.88 W	2.88 W	2.88 W	2.88 W
Casing temperature, After 60 minutes operation	53.7 °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	120 mA	120 mA	120 mA	120 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: 0.37 A	Min: 0.28 A Max: 0.44 A	Min: 0.3 A Max: 0.48 A	Min: 0.32 A Max: 0.52 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	36 V			
***Max. Trigger Pulse Duration	10 msec			
***Max. Duty Cycle	10%			

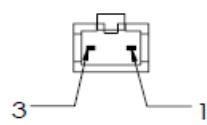
**Normal strobe means the lighting is operated using the rated power. Overdrive means the power supplied to the lighting exceeded the rated power.

***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 (ID)

DLC-00-070-1-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	Diffused Illumination
Application Use	Character Recognition on Shining Surface, Lead Inspection

ILLUMINATOR DATA (ID)

DLC-00-070-1-RGBW-24V

Maximum Simultaneous Current Output Information		
Colour	Current	Remarks
 SINGLE COLOUR : RED	0.12 A	TOTAL CURRENT OUTPUT : 0.12 A RECOMMENDED OVERDRIVE CURRENT : 0.32 A (36 V) ** OPTIMUM FOR SINGLE COLOUR
 SINGLE COLOUR : GREEN	0.12 A	TOTAL CURRENT OUTPUT : 0.12 A RECOMMENDED OVERDRIVE CURRENT : 0.32 A (36 V) ** OPTIMUM FOR SINGLE COLOUR
 SINGLE COLOUR : BLUE	0.12 A	TOTAL CURRENT OUTPUT : 0.12 A RECOMMENDED OVERDRIVE CURRENT : 0.32 A (36 V) ** OPTIMUM FOR SINGLE COLOUR
 COMBINE 2 COLOUR: RED & BLUE	0.12 A	TOTAL CURRENT OUTPUT : 0.12 A ****(EXAMPLE : RED = 0.06 A , BLUE = 0.06 A) ****(OVERDRIVE STROBE MODE EXAMPLE ; RED = 0.16 A , BLUE = 0.16 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A
 COMBINE 2 COLOUR: RED & GREEN	0.12 A	TOTAL CURRENT OUTPUT : 0.12 A ****(EXAMPLE : RED = 0.06 A , GREEN = 0.06 A) ****(OVERDRIVE STROBE MODE EXAMPLE ; RED = 0.16 A , GREEN = 0.16 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A
 COMBINE 2 COLOUR: GREEN & BLUE	0.12 A	TOTAL CURRENT OUTPUT : 0.12 A ****(EXAMPLE : GREEN = 0.06 A , BLUE = 0.06 A) ****(OVERDRIVE STROBE MODE EXAMPLE ; RED = 0.16 A , BLUE = 0.16 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A
 COMBINE COLOUR: RED, GREEN & BLUE	0.12 A	TOTAL CURRENT OUTPUT : 0.12 A ****(EXAMPLE : RED = 0.04 A , GREEN = 0.04 A , BLUE = 0.04 A) ****(OVERDRIVE STROBE MODE EXAMPLE : RED = 0.11 A , GREEN = 0.11 A , BLUE = 0.11 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A

ILLUMINATOR DATA (ID)

DLC-00-070-1-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></td><td>90%</td><td></td></tr> <tr><td>80%</td><td></td><td>80%</td><td></td></tr> <tr><td>70%</td><td></td><td>70%</td><td></td></tr> <tr><td>60%</td><td></td><td>60%</td><td></td></tr> <tr><td>50%</td><td></td><td>50%</td><td></td></tr> <tr><td>40%</td><td></td><td>40%</td><td></td></tr> <tr><td>30%</td><td></td><td>30%</td><td></td></tr> <tr><td>20%</td><td></td><td>20%</td><td></td></tr> <tr><td>10%</td><td></td><td>10%</td><td></td></tr> </tbody> </table>	Horizontal	Meas.(mm)	Vertical	Meas.(mm)	90%		90%		80%		80%		70%		70%		60%		60%		50%		50%		40%		40%		30%		30%		20%		20%		10%		10%	
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