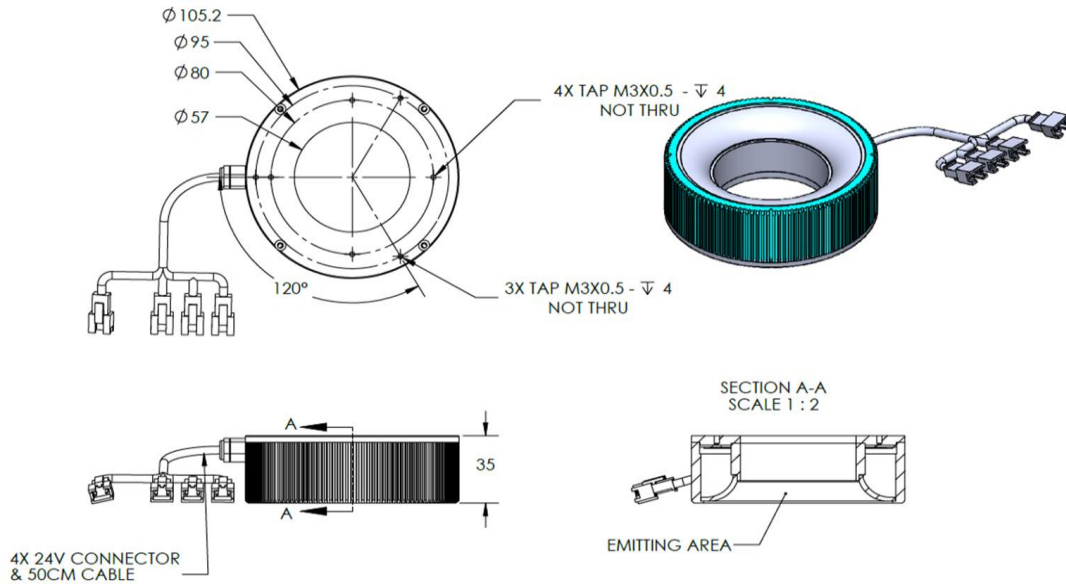




ILLUMINATOR DATA (ID)

HPD2-00-100-1-RGBW-24V

Lighting Dimension



Mechanical Information	
Casing Material	Aluminium
Storage Temperature Range	0 - 45°C
Storage Humidity Range	20 - 85%
Weight	210 g
Length / Outer Diameter	105.2 mm
Width / Inner Diameter	57 mm
Thickness / Height	35 mm

ILLUMINATOR DATA (ID)

HPD2-00-100-1-RGBW-24V

Lighting Information																															
Part Number	HPD2-00-100-1-RGBW-24V																														
LED Color	Red			Green			Blue			White																					
Wavelength	630			525			470			refer to chromaticity table																					
Working Distance	18 mm	44 mm	122 mm	18 mm	44 mm	122 mm	18 mm	44 mm	122 mm	18 mm	44 mm	122 mm																			
Intensity (±15%)	2220 lx	1890 lx	600 lx	6030 lx	4850 lx	1550 lx	6280 lx	530 lx	1550 lx	5260 lx	4140 lx	1270 lx																			
Illumination (number of row)	1																														
Illumination Active Area	Active Length / Outer Dia.			93.2 mm																											
	Active Width / Inner Dia.			59 mm																											
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±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	48.9 C			
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	24 V							
**Normal Strobe Current	120 mA	120 mA	120 mA	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: 240 mA	Max: 299 mA	Min: 269 mA	Max: 328 mA	Min: 325 mA	Max: 395 mA	Min: 314 mA	Max: 385 mA
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%							


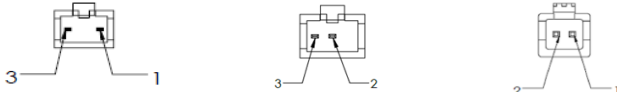
**Normal strobe means the lighting is operated using the rated power. Overdrive means the power supplied to the lighting exceeded the rated power.

***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)

HPD2-00-100-1-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
	4	-	-
	5	-	-
			








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



ILLUMINATOR DATA (ID)

HPD2-00-100-1-RGBW-24V

Maximum Simultaneous Current Output Information		
Colour	Current	Remarks
 SINGLE COLOUR : RED	0.5 A	TOTAL CURRENT OUTPUT : 0.5 A RECOMMENDED OVERDRIVE CURRENT : 1.1 A (36 V) ** OPTIMUM FOR SINGLE COLOUR
 SINGLE COLOUR : GREEN	0.4 A	TOTAL CURRENT OUTPUT : 0.4 A RECOMMENDED OVERDRIVE CURRENT : 1.17 A (36 V) ** OPTIMUM FOR SINGLE COLOUR
 SINGLE COLOUR : BLUE	0.45 A	TOTAL CURRENT OUTPUT : 0.45 A RECOMMENDED OVERDRIVE CURRENT : 1.21 A (36 V) ** OPTIMUM FOR SINGLE COLOUR
 COMBINE 2 COLOUR: RED & BLUE	0.5 A	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	0.5 A	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	0.5 A	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	0.5 A	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



ILLUMINATOR DATA (ID)

HPD2-00-100-1-RGBW-24V

Lighting Pattern																																													
Working Distance	TBA																																												
Display and Image	TBA																																												
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> <table border="1"> <thead> <tr> <th>Max.</th> <th>Meas.(cd/m2)</th> </tr> </thead> <tbody> <tr> <td></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%		Max.	Meas.(cd/m2)		
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