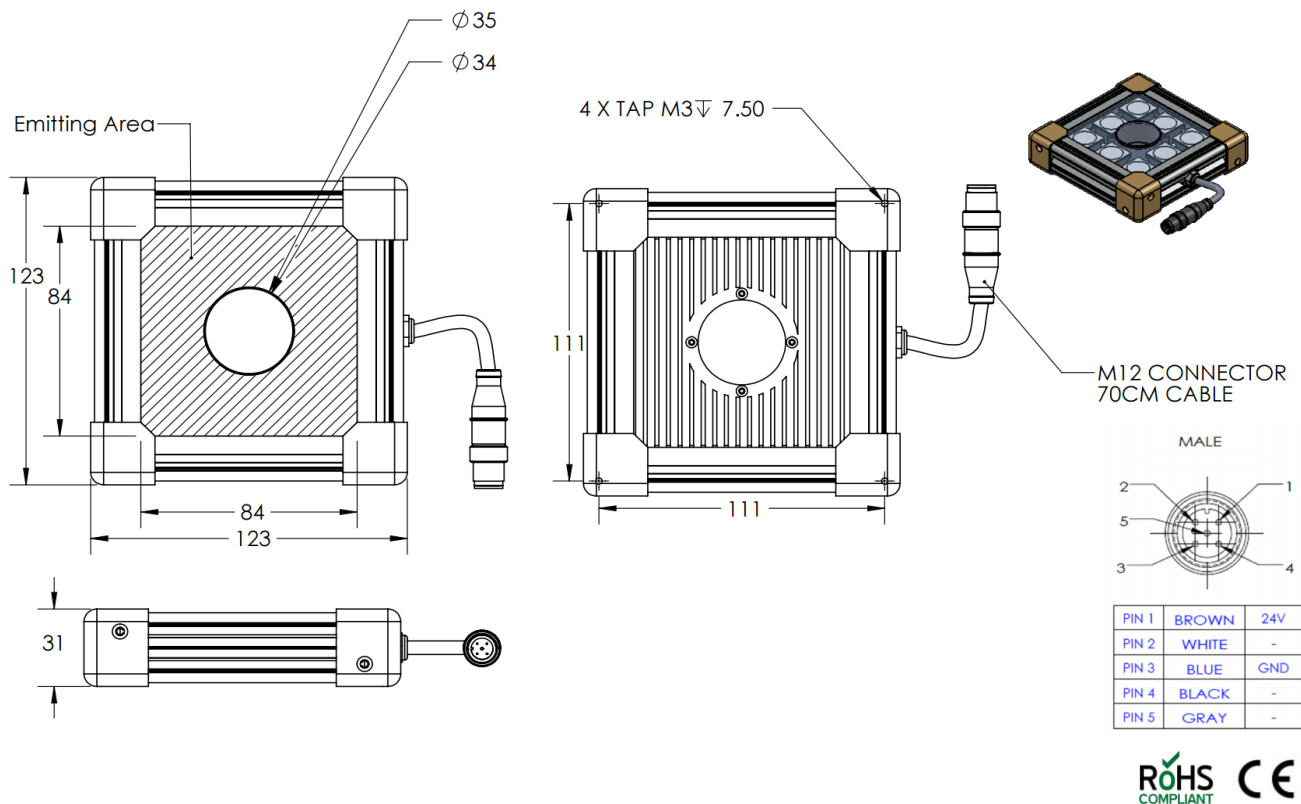


HBR3-00-090-X-W-24V

Lighting Dimension



Mechanical Information	
Casing Material	Aluminium
Storage & Operating Temperature Range	Temp 0-60°C, Humidity 20-85%
Weight	650 g
Length / Outer Diameter	123 mm
Width / Inner Diameter	34 mm
Thickness / Height	31 mm



HBR3-00-090-X-W-24V

Optical Information																								
Part Number		HBR3-00-090-X-W-24V																						
LED Colour		WHITE																						
Wavelength	(nm)	* Refer to the Chromaticity Table Below																						
Intensity (±15%)	(Lux)	7610	4080	2570																				
Working Distance	(mm)	250	350	450																				
Illumination (number of rows)		X																						
Illumination Active Area																								
Active Length / Outer Diameter	(mm)	84																						
Active Width / Inner Diameter	(mm)	35																						
Emission Angle	(deg.)	0																						
Eye Safety Class (IEC62471)		EXEMPT																						
*CHROMATICITY TABLE		<table><tr><td>X</td><td>0.296</td><td>0.287</td><td>0.307</td><td>0.311</td></tr><tr><td>Y</td><td>0.276</td><td>0.295</td><td>0.315</td><td>0.294</td></tr></table>	X	0.296	0.287	0.307	0.311	Y	0.276	0.295	0.315	0.294	<table><tr><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>0.294</td><td>0.315</td><td>0.339</td><td>0.318</td></tr></table>	X	0.311	0.307	0.33	0.33	Y	0.294	0.315	0.339	0.318	
X	0.296	0.287	0.307	0.311																				
Y	0.276	0.295	0.315	0.294																				
X	0.311	0.307	0.33	0.33																				
Y	0.294	0.315	0.339	0.318																				
Electrical Information																								
Lighting Supply Voltage (constant voltage mode)		24V ± 2%																						
Continuous Current	(mA)	230																						
Power Consumption	(W)	5.52																						
Lighting Casing Temperature, Operating after 60 minutes	°C	43.1																						
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. 10 msec) (constant current power supply)	(mA)	690																						
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		SD / SDA-Series																						
CE Conformity		YES																						
RoHS Compliance		YES																						
Connection																								
Connector Type (default)		M12 5 PIN CONNECTOR (MALE)																						
Cable Length (out from lighting)	(mm)	700																						
Pin Configuration		Pin	Signal	Cable Colour																				
		1	24V	BROWN																				
		2	-	WHITE																				
		3	GND	BLUE																				
		4	-	BLACK																				
		5	-	GRAY																				
Extension Cable																								
Connector Type (default)		M12 5 PIN CONNECTOR (FEMALE)																						
Part Number		EXT-FL-M12F-3M-24V																						
Cable Length (out from female connector)	(mm)	3000																						
Extension Cable (connect to M12 5 Pin Male Connector from lighting)																								
Application																								
Illumination Type		Direct Illumination of High Luminosity Square Spotlight																						
Application Use		General illumination, label inspection, character inspection, code recognition, robotic picking, inspection for parts identification & missing parts, visual inspection for large workpiece, measuring stamp dimensions for press products																						

HBR3-00-090-X-W-24V

Advantages	Join Bracket (Angle Mount)	L-bracket (Vertical Mount)	L-shaped Plate (Horizontal Mount)
Easy Mounting	