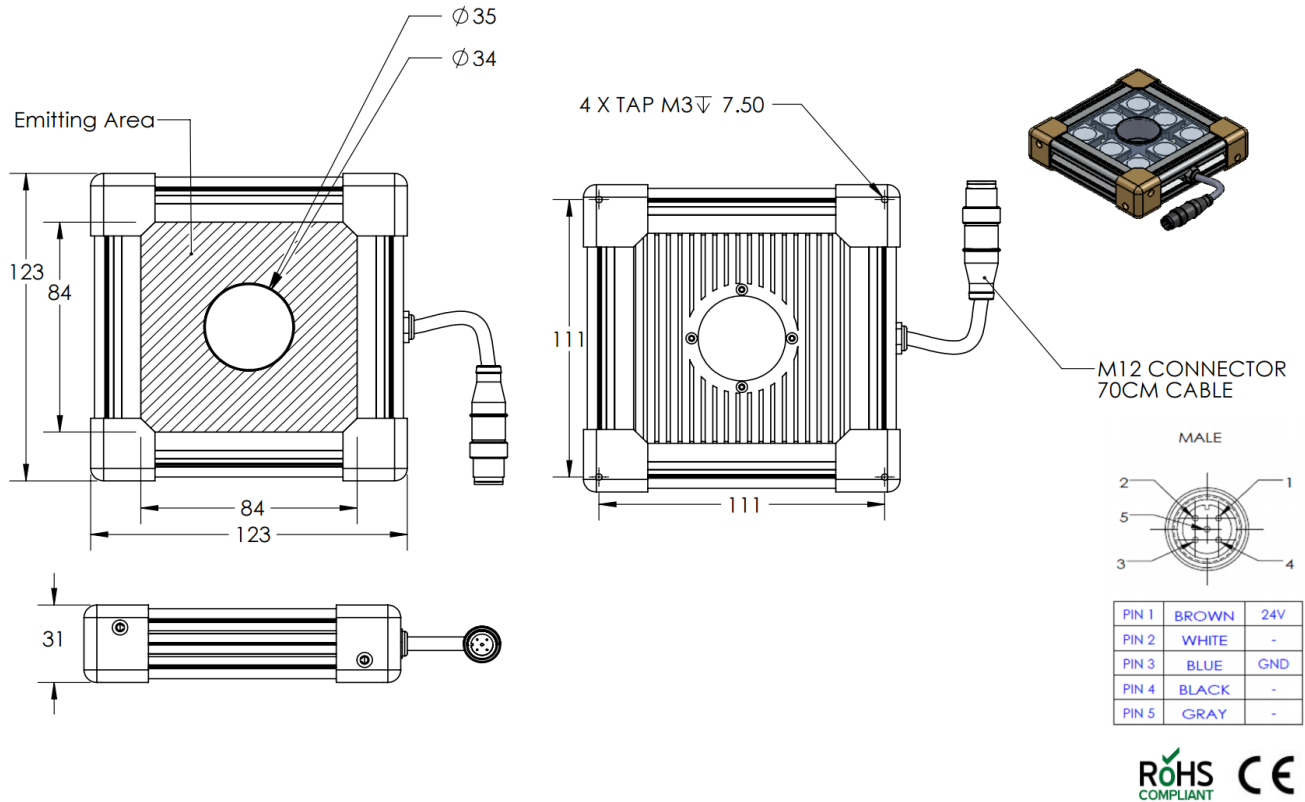


## HBR3-00-090-X-B-24V

### Lighting Dimension



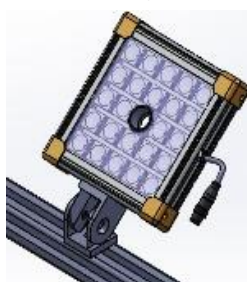
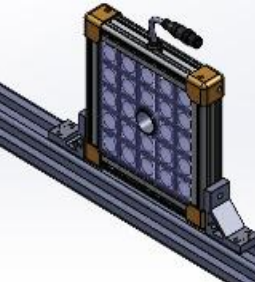
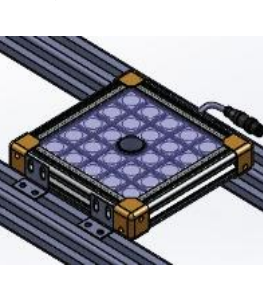
| Mechanical Information                |                              |
|---------------------------------------|------------------------------|
| Casing Material                       | Aluminium                    |
| Storage & Operating Temperature Range | Temp 0-60°C, Humidity 20-85% |
| Weight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



## HBR3-00-090-X-B-24V

| Optical Information  |        |   |        |              |
|--|--------|---|--------|--------------|
| Part Number  |        | HBR3-00-090-X-B-24V   |        |              |
| LED Colour   |        | BLUE  |        |              |
| Wavelength   | (nm)   | 470   |        |              |
| Intensity ( ±15%)  | (Lux)  | 1526  | 818    | 515          |
| 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)   |        | II  |        |              |
|  |        |   |        |              |
| Electrical Information   |        |   |        |              |
| Lighting Supply Voltage<br>(constant voltage mode)                     |        | 24V ± 2%  |        |              |
| Continuous Current   | (mA)   | 230   |        |              |
| Power Consumption  | (W)    | 5.52  |        |              |
| Lighting Casing Temperature,<br>Operating after 60 minutes             | °C     | 43.1  |        |              |
|  |        |   |        |              |
| Strobe Mode Specification  |        |   |        |              |
| Pulse Operation  |        | YES   |        |              |
| Max. Lighting Supply Voltage<br>(constant voltage power supply)        | (V)    | Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle Recommended at 36VDC  |        |              |
| Pulse Current, (Max. 10 msec)<br>(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<br>(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-B-24V

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

