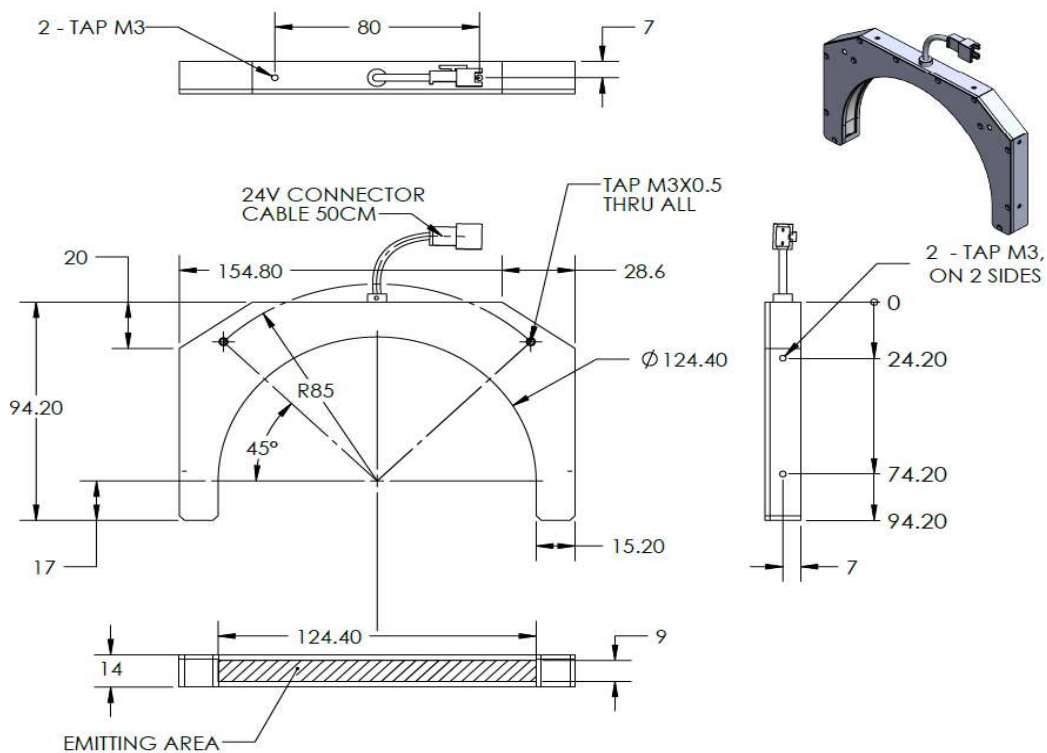




# ILLUMINATOR DATA (ID)

## LLAC-90-70-1-B-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   | 154.8 mm  |
| Width / Inner Diameter    | 94.2 mm   |
| Thickness / Height        | 14 mm     |

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## ILLUMINATOR DATA (ID)

### LLAC-90-70-1-B-24V

| Lighting Information                        |                            |       |       |          |       |   |       |       |       |       |
|---------------------------------------------|----------------------------|-------|-------|----------|-------|---|-------|-------|-------|-------|
| Part Number                                 | LLAC-90-70-1-B-24V         |       |       |          |       |   |       |       |       |       |
| LED Color                                   | BLUE                       |       |       |          |       |   |       |       |       |       |
| Wavelength                                  | 470 nm                     |       |       |          |       |   |       |       |       |       |
| Working Distance                            | 10 mm                      | 11 mm |       | 16 mm    |       |   |       |       |       |       |
| Intensity (±15%)                            | TBA                        | TBA   |       | TBA      |       |   |       |       |       |       |
| Illumination (number of row)                | 1                          |       |       |          |       |   |       |       |       |       |
| Illumination Active Area                    | Active Length / Outer Dia. |       |       | 124.4 mm |       |   |       |       |       |       |
|                                             | Active Width / Inner Dia.  |       |       | 9 mm     |       |   |       |       |       |       |
| Emission angle                              | 90                         |       |       |          |       |   |       |       |       |       |
| Eye Safety Class ( IEC62471 )               | EXEMPT                     |       |       |          |       |   |       |       |       |       |
| Chromaticity Table<br>For White colour only | 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 |

| Electrical Information                            |               |
|---------------------------------------------------|---------------|
| Rated Constant Voltage                            | 24V $\pm 2\%$ |
| Rated Constant Current                            | 165 mA        |
| Power Consumption                                 | 3.96 W        |
| Casing temperature,<br>After 60 minutes operation | 49.4 °C       |

| Strobe Mode Specification     |              |              |
|-------------------------------|--------------|--------------|
| *Normal Strobe Voltage        | 24 V         |              |
| *Normal Strobe Current        | 165 mA       |              |
| Overdrive Voltage Range       | Min: 36 V    | Max: 48 V    |
| Overdrive Current Range       | Min: 0.367 A | Max: 0.648 A |
| 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.

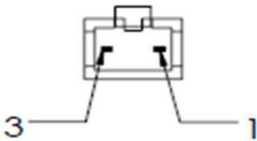
\*\*Overdrive condition must not exceed the max. trigger pulse duration and max. duty cycle.





## ILLUMINATOR DATA (ID)

### LLAC-90-70-1-B-24V

| Connection Information                                                                                 |                                                                                    |        |              |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------|--------------|
| Connector Type (Default)                                                                               | JST SMR-03V                                                                        |        |              |
| Cable Length                                                                                           | 50 cm                                                                              |        |              |
| Pin Configuration<br> | 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 | Half Circle Illumination                           |
| Application Use   | Edge Detection, Scratch on Metal or Glossy Surface |





# ILLUMINATOR DATA (ID)

## LLAC-90-70-1-B-24V

| 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%      |           |



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