



# SRF

## 95B020160

### SRF-L-120-5-P

ULTIMATE PRECISION USING LED OR LASER EMISSIONS  
FOR HIGH RESOLUTION

## OVERVIEW

- Visible red emission models
- High resolution LASER models
- Sensitivity adjustment trimmer and dark/light selectors
- Industrial metal housing with glass lenses

## TECHNICAL FEATURES

### Detection properties

|                          |       |
|--------------------------|-------|
| Nominal sensing distance | 120mm |
|--------------------------|-------|

|                           |        |
|---------------------------|--------|
| minimum detectable object | 0,15mm |
|---------------------------|--------|

|                        |         |
|------------------------|---------|
| Sensitivity adjustment | Trimmer |
|------------------------|---------|

### Application

|                    |                                 |
|--------------------|---------------------------------|
| Function Principle | Fork for small object detection |
|--------------------|---------------------------------|

|             |                                 |
|-------------|---------------------------------|
| Description | Slim case - fork slot 120x54 mm |
|-------------|---------------------------------|

|           |                                 |
|-----------|---------------------------------|
| Functions | Fork for small object detection |
|-----------|---------------------------------|

|                                |                                        |
|--------------------------------|----------------------------------------|
| Outputs                        |                                        |
| Output type                    | PNP L/D selectable                     |
| Output Function                | L/D selectable                         |
| Switching frequency            | 5kHz                                   |
| Response time                  | 0,1                                    |
| Electrical data                |                                        |
| Operating Voltage              | 10...30VDC                             |
| No-Load supply current         | ≤ 20mA                                 |
| Load current                   | ≤200mA                                 |
| Output voltage drop            | ≤ 3V                                   |
| LED indicators                 | yellow OUTPUT LED, green STABILITY LED |
| Emission                       | LASER Red                              |
| Interference to external light | according to EN 60947-5-2 : 2020       |
| Mechanical data                |                                        |
| Dimensions                     | 10x140x84                              |
| Material                       |                                        |
| Housing material               | Metal - Gd-Zn / Glass                  |
| Connections                    | M8 plug 3pin                           |
|                                |                                        |

|                     |                |
|---------------------|----------------|
| Storage temperature | - 20°C...+70°C |
|---------------------|----------------|

#### Test/Approvals

|           |          |
|-----------|----------|
| Approvals | CE cULus |
|-----------|----------|

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Shocks and vibrations | 0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6) |
|-----------------------|------------------------------------------------------------------------|

#### Generical Data

|            |           |
|------------|-----------|
| Dimensions | 10x140x84 |
|------------|-----------|

|                       |                                  |
|-----------------------|----------------------------------|
| Operating Temperature | - 10°C...+ 60°C (Without freeze) |
|-----------------------|----------------------------------|

|                       |      |
|-----------------------|------|
| Mechanical Protection | IP67 |
|-----------------------|------|

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