



# S67-Y

## 956271030

### S67-MH-5-Y13-V

ACCURATE AND PRECISE LASER DISTANCE SENSOR WITH  
SUBMILLIMETRIC RESOLUTION

## OVERVIEW

- Sturdy metal Die-cast zinc IP67 housing.
- Resolution of 10um@50mm. distance on white 90% remission.
- Response time less than 0,9ms (short range models)
- Linearity error of +/-0,03mm@50mm range.
- Analog Voltage models with 0V-10V protected output.
- Analog Current models with 4-20mA protected output.
- Soiling indicator and Alarm Output.
- Robust light interference suppression.

## TECHNICAL FEATURES

### Detection properties

|                                       |                 |
|---------------------------------------|-----------------|
| Nominal sensing distance              | 600mm           |
| Spot dimension                        | 2mm             |
| Resolution                            | 0.015...0.67 mm |
| Sensitivity adjustment                | Teach-in        |
| Minimum sensing distance (blind zone) | 100             |

|                 |                 |
|-----------------|-----------------|
| Linearity error | ±0.05...±2.0 mm |
|-----------------|-----------------|

### Application

|                    |                               |
|--------------------|-------------------------------|
| Function Principle | Distance sensor - Micrometric |
| Description        | Large case vertical mount     |
| Optic position     | Radial 90°                    |
| Functions          | Distance sensor - Micrometric |

### Outputs

|                 |                                                                                                                                                |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Output type     | 0...10V Analog Current Output : load resistance (analog I) < (+Vs - 6 V) / 0,02<br>(-I) Analog Voltage Output : load resistance > 100 kOhm (-V |
| Output Function | Analog Current Output : load resistance (analog I) < (+Vs - 6 V) / 0,02 (-I)<br>Analog Voltage Output : load resistance > 100 kOhm (-V         |
| Response time   | 1                                                                                                                                              |

### Electrical data

|                             |                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------|
| Operating Voltage           | 12..28VDC±10%                                                                      |
| No-Load supply current      | ≤100mA                                                                             |
| LED indicators              | Red LED Alarm/Soiled lens indicator Green LED Power indicator Push Button Teach in |
| Short-circuit protection    | YES                                                                                |
| Reverse Polarity Protection | Yes                                                                                |
| Emission                    | LASER Red                                                                          |
|                             |                                                                                    |

|                                  |                                                 |
|----------------------------------|-------------------------------------------------|
| Interference to external light   | according to EN 60947-5-2 : 2020                |
| Impulsive Overvoltage Protection | Yes                                             |
| Optical power class              | CLASS 2 According to IEC 60825-1 (2014)         |
| Insulation resistance            | >20 MΩ 500 Vdc, between electronics and housing |
| Contact resistance               | 500 Vac 1 min., between electronics and housing |

**Mechanical data**

|                      |                             |
|----------------------|-----------------------------|
| Dimensions           | 20x65x50                    |
| Material             |                             |
| Housing material     | Metal die-cast Zinc / Glass |
| Connections          | M12 plug                    |
| Active Head Material | PMMA                        |
| Storage temperature  | - 25°C...+70°C              |
| Diameter/Dimension   | Cubic                       |

**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            | 20x65x50 |
| Mechanical Protection | IP67     |

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S.r.l.**

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