



**S8**

**950801680**

**S8-MR-5-W13-NN**

**COMPACT SIZE AND HIGH PERFORMANCE FOR THE MOST CHALLENGING DETECTION APPLICATIONS LINKED TO YOUR INDUSTRY 4.0 APPLICATIONS**

## OVERVIEW

- Compact dimensions (14x42x25 mm)
- Background suppression for transparent and shiny objects
- Contrast sensors up to 25 kHz switching frequency
- Extremely focused spot, under 1 mm (LASER model)
- Very high resolution LASER models
- INOX AISI 316L model
- Extended IO-Link parametrization with counter
- All output fully PNP/NPN/PP IO-Link configurable
- IO-link COM2
- IO-Link dual channel with no jitter addition

## TECHNICAL FEATURES

### Detection properties

|                          |      |
|--------------------------|------|
| Nominal sensing distance | 10mm |
|--------------------------|------|

|                        |          |
|------------------------|----------|
| Sensitivity adjustment | Teach-in |
|------------------------|----------|

### Application

|                    |                         |
|--------------------|-------------------------|
| Function Principle | Contrast mark detection |
|--------------------|-------------------------|

|             |                         |
|-------------|-------------------------|
| Description | Compact slim case IP69K |
|-------------|-------------------------|

|                                  |                                                          |
|----------------------------------|----------------------------------------------------------|
|                                  |                                                          |
| Optic position                   | Radial 90°                                               |
| Functions                        | Contrast mark detection                                  |
| Outputs                          |                                                          |
| Output type                      | NPN L/D Selectable                                       |
| Output Function                  | L/D Selectable                                           |
| Response time                    | 0,02 (25kHz)                                             |
| Electrical data                  |                                                          |
| Operating Voltage                | 12...30VDC                                               |
| No-Load supply current           | ≤ 30mA                                                   |
| Output voltage drop              | ≤2V@Iload=100mA                                          |
| LED indicators                   | Yellow (status output) or (output/alarm) Green (powerON) |
| Short-circuit protection         | YES                                                      |
| Reverse Polarity Protection      | Yes                                                      |
| Emission                         | LED RGB                                                  |
| Interference to external light   | according to EN 60947-5-2 : 2020                         |
| Impulsive Overvoltage Protection | Yes                                                      |
| Insulation resistance            | >20 MΩ 500 Vdc, between electronics and housing          |
| Contact resistance               | 500 Vac 1 min., between electronics and housing          |

## Mechanical data

|                      |                               |
|----------------------|-------------------------------|
| Dimensions           | 14x43x25                      |
| Material             | Metal - Stainless steel IP69K |
| Housing material     | ABS(Housing), PMMA (Optics)   |
| Connections          | M8 plug 4pin                  |
| 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            | 14x43x25                         |
| Operating Temperature | - 25°C...+ 55°C (Without freeze) |
| Mechanical Protection | IP67                             |

## Datasensing S.r.l.

Strada S.Caterina, 235  
41122 Modena (MO)  
Tel. 059 420411  
Fax 059 253973  
E-mail

**date of  
printing**  
10/08/2026  
07:22:59

[info@datasensing.com](mailto:info@datasensing.com)