



# S100

## 950811400

### S100-PR-5-M10-NH

THE UNIVERSAL MINIATURE PHOTOELECTRIC SENSORS

## OVERVIEW

- Two threaded front mounting holes
- Two slotted rear mounting holes
- Anti-tampering sensor (no adjustment)
- High speed high resolution RGB contrast sensor available
- Transparent object detection
- M8 connector and cable models
- PNP or NPN models with Light/Dark selection by wire
- Plastic housing, IP67 mechanical protection
- IO-Link COM2 communication protocol
- IO-Link V1.1.2 version
- IO-Link extended parametrization for monitoring and maintenance

## TECHNICAL FEATURES

### Detection properties

|                          |       |
|--------------------------|-------|
| Nominal sensing distance | 200mm |
|--------------------------|-------|

|                        |            |
|------------------------|------------|
| Sensitivity adjustment | Ext. Teach |
|------------------------|------------|

### Application

|                    |                        |
|--------------------|------------------------|
| Function Principle | Background suppression |
|--------------------|------------------------|

|                |                                 |
|----------------|---------------------------------|
| Description    | Miniature universal multi-holes |
| Optic position | Radial 90°                      |
| Functions      | Background suppression          |

Outputs

|                     |       |
|---------------------|-------|
| Output type         | NPN   |
| Switching frequency | 500Hz |
| Response time       | 1ms   |

Electrical data

|                                  |                                                 |
|----------------------------------|-------------------------------------------------|
| Operating Voltage                | 10...30VDC                                      |
| No-Load supply current           | ≤ 30mA                                          |
| Load current                     | ≤100mA                                          |
| Output voltage drop              | ≤2V@Iload=100mA                                 |
| LED indicators                   | Yellow (status output)                          |
| Short-circuit protection         | YES                                             |
| Reverse Polarity Protection      | Yes                                             |
| Emission                         | LED Infrared                                    |
| 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           | 12x32x20       |
| Material             |                |
| Housing material     | ABS            |
| 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            | 12x32x20                         |
| Operating Temperature | - 25°C...+ 55°C (Without freeze) |
| Mechanical Protection | IP67                             |

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