



# S100

## 950811060

### S100-PR-2-C10-NK

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 | 500mm |
|--------------------------|-------|

|                        |     |
|------------------------|-----|
| Sensitivity adjustment | n/a |
|------------------------|-----|

### Application

|                    |              |
|--------------------|--------------|
| Function Principle | Diffuse beam |
|--------------------|--------------|

|                |                                 |
|----------------|---------------------------------|
| Description    | Miniature universal multi-holes |
| Optic position | Radial 90°                      |
| Functions      | Diffuse beam                    |

Outputs

|                     |                    |
|---------------------|--------------------|
| Output type         | NPN L/D Selectable |
| Output Function     | L/D Selectable     |
| 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 Red                          |
| 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          | 2m cable       |
| 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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