



## Small

95B000070

SM-PR-2-A00-NN

COMPLETE LINE OF AMPLIFIED SUBMINIATURE  
PHOTOELECTRIC SENSORS

## OVERVIEW

- 15 mm, 20 mm, 30 mm and 50 mm fixed focus proximity
- 1,5 m retroreflective and 1 m polarized retroreflective
- 2 m through beam models
- Amplified NPN or PNP output with NO-NC output

## TECHNICAL FEATURES

### Detection properties

|                          |      |
|--------------------------|------|
| Nominal sensing distance | 1,5m |
|--------------------------|------|

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

### Application

|                    |                 |
|--------------------|-----------------|
| Function Principle | Retroreflective |
|--------------------|-----------------|

|             |                        |
|-------------|------------------------|
| Description | Subminiature slim case |
|-------------|------------------------|

|                |            |
|----------------|------------|
| Optic position | Radial 90° |
|----------------|------------|

|           |                 |
|-----------|-----------------|
| Functions | Retroreflective |
|-----------|-----------------|

## Outputs

|                     |           |
|---------------------|-----------|
| Output type         | NPN NO+NC |
| Output Function     | NO+NC     |
| Switching frequency | 590Hz     |
| Response time       | 0,7ms     |

## Electrical data

|                                  |   |
|----------------------------------|---|
| Operating Voltage                | 10...30VDC  |
| No-Load supply current           | $\leq 20\text{mA}$  |
| Load current                     | $\leq 50\text{mA}$  |
| Output voltage drop              | $\leq 1,25\text{V}@I_{\text{load}}=50\text{mA}$               |
| LED indicators                   | Yellow (output status)  |
| Short-circuit protection         | YES   |
| Reverse Polarity Protection      | Yes   |
| Emission                         | LED Red (640nm)   |
| Interference to external light   | according to EN 60947-5-2 : 2020                              |
| Impulsive Overvoltage Protection | Yes   |
| Insulation resistance            | $>20\text{ M}\Omega$ 500 Vdc, between electronics and housing |
| Contact resistance               | 500 Vac 1 min., between electronics and housing               |

## Mechanical data

|                      |                   |
|----------------------|-------------------|
| Dimensions           | 8x23x12           |
| Housing Material     | Plastic PC / PMMA |
| Connections          | 2m cable          |
| Active Head Material | PMMA              |
| Storage temperature  | - 35°C...+75°C    |
| Material             |                   |
| 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            | 8x23x12         |
| Operating Temperature | - 20°C...+ 55°C |
| Mechanical Protection | IP67            |

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## **date of printing**

25/04/2026  
18:18:08

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