



S3Z

95B010111

S3Z-PR-5-B01-PD

ADVANCED GLOBAL STYLE MINIATURE PHOTOELECTRIC
SENSOR

OVERVIEW

- 50-250 mm background suppression
- 0.7 m proximity, 150 mm with narrow beam
- 4 m polarized retroreflective
- 15 m through beam
- Light and dark trimmer models
- Standard 3-wire output configuration

TECHNICAL FEATURES

Detection properties

| | |
|--------------------------|---------|
| Nominal sensing distance | 4m |
| Sensitivity adjustment | Trimmer |

Application

| | |
|--------------------|---------------------------------------|
| Function Principle | Polarized retroreflective |
| Description | Miniature global standard front holes |
| Optic position | Radial 90° |

| | |
|-----------|---------------------------|
| Functions | Polarized retroreflective |
|-----------|---------------------------|

Outputs

| | |
|---------------------|---------|
| Output type | PNP Don |
| Output Function | Don |
| Switching frequency | 500Hz |
| Response time | 1 |

Electrical data

| | |
|----------------------------------|---|
| Operating Voltage | 10...30VDC |
| No-Load supply current | $\leq 30\text{mA}$ |
| Load current | $\leq 100\text{mA}$ |
| Output voltage drop | $\leq 2\text{V}@I_{\text{load}}=100\text{mA}$ |
| Short-circuit protection | YES |
| Reverse Polarity Protection | Yes |
| Emission | LED Red (665 nm) |
| 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 | 11x32x20 |
| Housing Material | Plastic PBT / PC |
| Connections | M8 plug 4pin |
| Active Head Material | PMMA |
| Storage temperature | - 40°C...+70°C |
| Material | |
| Diameter/Dimension | Cubic |

Test/Approvals

| | |
|-----------------------|--|
| Approvals | CE cULus |
| EMC compatibility | EN 60947-5-2 |
| Shocks and vibrations | 0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6) |

Generical Data

| | |
|-----------------------|-----------------|
| Dimensions | 11x32x20 |
| Operating Temperature | - 25°C...+ 55°C |
| Mechanical Protection | IP67 |

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**date of
printing**
19/04/2026
23:15:47

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