



Small

95B000040

SM-PR-2-D20-PP

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 | 30mm |
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|------------------------|-----|
| Sensitivity adjustment | n/a |
|------------------------|-----|

Application

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|--------------------|----------------|
| Function Principle | Fix focus beam |
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|-------------|------------------------|
| Description | Subminiature slim case |
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|----------------|------------|
| Optic position | Radial 90° |
|----------------|------------|

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| Functions | Fix focus beam |
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Outputs

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|---------------------|-----------|
| Output type | PNP 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 | $\leq 1,45\text{V}@I_{\text{load}}=50\text{mA}$ |
| 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

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| 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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