

LT207106

Fiber optic sensors • Fiber optics plastic fiber diffuse-reflection sensor

fiber optic diffuse-reflection sensor, 2m, head: Stainless steel 25long M3x0.7 M3x0.5 M4x0.7 Ø4, Light exit Axial, conductor: Plasticfiber+Plastic, -40-60°C, IP40, small bending radius, coaxial, for attachment optics

including Nut, Washer



Fiber optics in combination with the appropriate fiber optic amplifier function as contactless and wear-free position switches that can also be used in harsh environmental conditions. They detect objects independent of their characteristics (e.g., shape, color, surface structure, material). Because the ends and heads of the fiber optics have small dimensions and the fiber optics are flexible, very elegant solutions can be created for detecting objects in places that are difficult to access. Fiber optics can be used without special precautions in potentially explosive areas and in zones with electrical and/or magnetic fields (high-voltage installations, electrical welding equipment) as their function is not thereby affected. Fiber optics are available in versions for implementing the function as through-beam sensor or diffuse reflection sensor.

Electrical features

| | |
|-------------------------------------|-----------|
| Bending section of the sensing head | 0 mm |
| Bending angle of the sensing head | 0 ° |
| Short-circuit protection | No |
| Sensing head length | 25 mm |
| Switching distance | 0 - 45 mm |
| Reverse polarity protection | No |
| Sensing head thread pitch | 0.7 mm |

Mechanical features

| | |
|---|------------------------|
| Type of fiber | Mono |
| Design | Cylinder, screw-thread |
| Bending radius (fixed) | 1 mm |
| Sensing head diameter 1 | 2.3 |
| Fiber diameter | 0.5 mm |
| Fiber optic cable diameter, receiver end | 1.3 |
| Fiber optic cable diameter, transmitter end | 1 |
| Sensing head diameter | 4 mm |
| Number of fibers | 1 |
| Length | 2000 mm |
| Degree of protection (IP) | IP40 |
| Sheathing material | Plastic |
| Fiber optics core material | Plastic |
| Sensing head material | Stainless steel |
| Ejection control | Yes |
| Design of the fiber optic connection | terminal connection |
| Thread dimension of sensing head 1 | M3 |
| Thread dimension of sensing head | M3 |
| Thread dimension of sensing head 2 | M4 |
| Ambient temperature | -40 - 60 °C |

Optical features

| | |
|------------------------------------|-------|
| Light exit | axial |
| Nominal operating distance | 45 mm |
| Fiber optic for attachment optics | Yes |
| Fiber optic with coaxial structure | Yes |

Other features

| | |
|------------------------------------|-------------------------------------|
| Sensing head thread pitch 1 | 0.5 |
| Sensing head thread pitch 2 | 0.7 |
| Feeding technology | Yes |
| Thread dimension of sensing head 1 | M3 |
| Thread dimension of sensing head 2 | M4 |
| ardTE00_Anwendungen | Stanzwerkzeuge starke Verschmutzung |

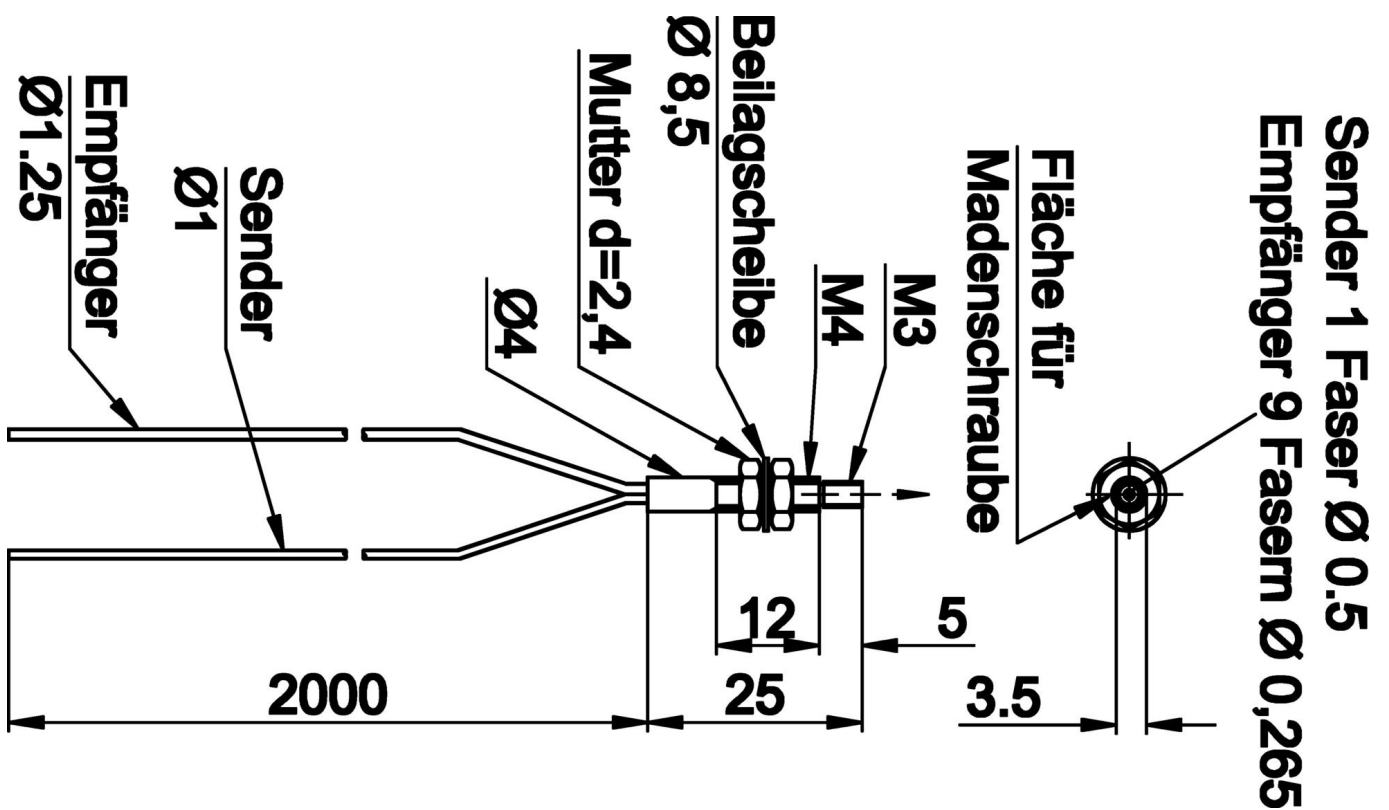
Classification

| | |
|--------|---------------------------------------|
| ETIM 8 | EC002651 Fiber optic sensor/amplifier |
|--------|---------------------------------------|

More

| | |
|-----------------------|--------------------|
| IPF Product Group | 151 plastic fibers |
| packaging dimensions | 123 x 77 x 25 mm |
| gross weight | 20 g |
| Customs tariff number | 90011090 |
| WEEE number | 40951076 |
| OzDS-compliant | Yes |
| POP-compliant | Yes |
| Reach-compliant | Yes |
| RoHS-compliant | Yes |

Dimensional drawing



Extract accessories program**AL000023**

accessories fiber optic, Optic top part, diffuse-reflection sensor, M3x0.5 15long, Internal thread, Aluminum+Glass

AL000024

accessories fiber optic, Optic top part, zoom lens, diffuse-reflection sensor, M4x0.7 27long, für Diffuse reflection sensor, Internal thread, Aluminum+Glass

AL000007

accessories fiber optic, Fiber cutter, barrier, diffuse-reflection sensor, 13mm high, Cubic, Stainless steel

OL100340

fiber optic-amplifier, 30x70x10mm, 12-24V DC, 1x PNP NC/NO, Plug-in connection 3pin, IP40, Plastic, Polarity free red light

OL100341

fiber optic-amplifier, 30x70x10mm, 12-24V DC, 1x PNP NC/NO, Plug-in connection 3pin, IP40, Plastic ABS, Blue light

You can find further accessories on our homepage

**Installation**

Mounting / installation may only be carried out by a qualified electrician!

**Disposal**

WEEE number according to § 6 para. 3 ElektroG: 40951076

Safety warnings

/ Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.

/ Never use these devices in applications where the safety of a person depends on their functionality.