

LT207004

FIBER OPTIC SENSORS • FIBER OPTICS PLASTIC FIBERS

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.



MECHANICAL DATA

| | |
|--------------------------------|-----------------------------|
| Ambient temperature | -55 °C ... 80 °C |
| Bendable | Yes |
| Bending radius (fixed) | 25 mm |
| Degree of protection (IP) | IP67 |
| Ejection control | Yes |
| Fiber diameter | 1.1 mm |
| Fiber optic with bendable head | Yes |
| Fiber optics core material | Plastic |
| Heavy soiling | Yes |
| Housing design | Cylinder, screw-thread |
| Housing material | Stainless steel |
| Number of fibers | 1 |
| Overall length | 2000 mm |
| Punching tools | Yes |
| Sheathing material | Plastic |
| Type of mechanical connection | Clamped terminal connection |
| Version | Push button |

ELECTRICAL DATA

| | |
|-------------------------------------|---------|
| Analogue output 0 mA ... 20 mA | No |
| Analogue output 0 V ... 10 V | No |
| Analogue output -10 V ... +10 V | No |
| Analogue output 4 mA ... 20 mA | No |
| Bending section of the sensing head | 40 mm |
| Light exit | Axial |
| Max. switching distance | 110 mm |
| Metric thread size of sensing head | 6 mm |
| Sensing head thread pitch | 0.75 mm |
| With blanking function | Yes |

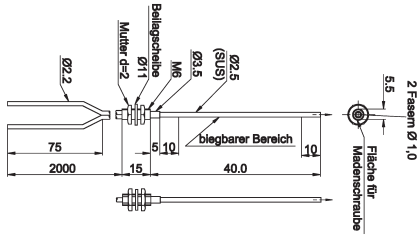
OPTICAL DATA

| | |
|-------|--------|
| Range | 110 mm |
|-------|--------|

OTHER DATA

| | |
|--------------------|-----|
| Feeding technology | Yes |
|--------------------|-----|

DIMENSIONAL DRAWING



INSTALLATION



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

DISPOSAL



SAFETY WARNINGS

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