

LT207012

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 (MAX)	80 °C
Ambient temperature (MIN)	-55 °C
Bendable	Yes
Bending radius (fixed)	4 mm
Bending radius (flexible)	10 mm
Degree of protection (IP)	IP67
End piece diameter	4 mm
End piece length	12 mm
End piece thread pitch	0.7 mm
Fiber diameter	0.5 mm
Fiber optic with bendable head	Yes
Fiber optics core material	Plastic
Heavy soiling	Yes
Housing design	Cylinder, screw-thread
Housing material	Stainless steel
Material of cable sheath	Plastic
Metric thread size of end piece	4 mm
Number of fibers	1
Overall length	2000 mm
Punching tools	Yes
Sensing head diameter	4 mm
Sheathing material	Plastic
Version	Push button

ELECTRICAL DATA

Analogue output 4 mA ... 20 mA	No
Bending section of the sensing head	40 mm
Light exit	Axial
Max. switching distance	45 mm

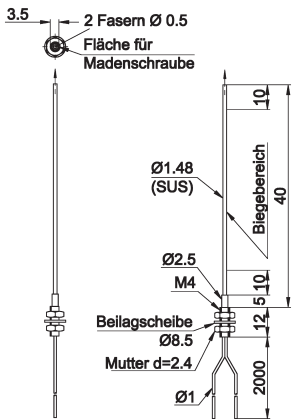
ELECTRICAL DATA

Metric thread size of sensing head	4 mm
Sensing head length	52 mm
Sensing head thread pitch	0.7 mm

OPTICAL DATA

Range	45 mm
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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!

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