

LS207202

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)	70 °C
Ambient temperature (MIN)	-40 °C
Bending radius (fixed)	2 mm
Bending radius (flexible)	10 mm
Degree of protection (IP)	IP40
End piece height	31 mm
End piece length	13.5 mm
Fiber diameter	0.75 mm
Fiber optic with small bending radius	Yes
Fiber optics core material	Plastic
Heavy soiling	Yes
Housing design	Cuboid
Housing material	Plastic
Material of cable sheath	Plastic
Number of fibers	2
Overall length	2000 mm
Punching tools	Yes
Sensing head height	31 mm
Sensing head width	4.2 mm
Sheathing material	Plastic
Version	Through-beam sensors

ELECTRICAL DATA

Analogue output 4 mA ... 20 mA	No
Light exit	Lateral, row 11mm
Max. switching distance	1900 mm
Sensing head length	13.5 mm

OPTICAL DATA

Range	1900 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.