LS207103

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

Bending radius (fixed)	1 mm
Ejection control	Yes
End piece diameter	3 mm
End piece height	8 mm
End piece length	12 mm
Fiber diameter	1.1 mm
Fiber optic with small bending radius	Yes
Fiber optics core material	Plastic
Heavy soiling	Yes
Housing design	Cuboid
Number of fibers	2
Overall length	2000 mm
Punching tools	Yes
Sensing head height	8 mm
Sensing head width	3 mm
Type of mechanical connection	Clamped terminal connection
Version	Through-beam sensors

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
Light exit	Axial
Sensing head length	12 mm
With blanking function	No

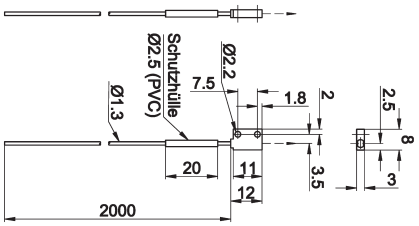
OPTICAL DATA

Range	1200 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!

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