

**LS508163**

**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	-40 °C ... 70 °C
Degree of protection (IP)	IP67
Ejection control	Yes
Fiber optics core material	Plastic
Heavy soiling	Yes
Housing design	Cylinder plain
Material of cable sheath	Plastic
Number of fibers	2
Overall length	5000 mm
Punching tools	Yes
Sensing head diameter	4 mm
Sheathing material	Plastic
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
Bending angle of the sensing head	90 °
Light exit	Axial
With blanking function	No

**OTHER DATA**

Feeding technology	Yes
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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!