# IPF ELECTRONIC

LT208956

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.
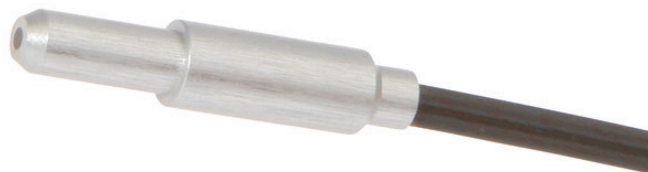
MECHANICAL DATA

Ambient temperature	-30 °C ... 70 °C
Bending radius (fixed)	25 mm
Degree of protection (IP)	IP40
Ejection control	Yes
End piece diameter	4 mm
End piece length	11.8 mm
Fiber diameter	0.5 mm
Fiber optics core material	Plastic
Heavy soiling	Yes
Housing design	Cylinder plain
Housing material	Aluminium
Material of cable sheath	Plastic
Number of fibers	1
Overall length	2000 mm
Punching tools	Yes
Sensing head diameter	3 mm
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
Light exit	Axial
Max. switching distance	35 mm
Sensing head length	20 mm
With blanking function	Yes

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DATA SHEET LT208956 • Subject to alteration! Version: 03.05.2019

OPTICAL DATA

Range	35 mm

OTHER DATA

Feeding technology	Yes

DIMENSIONAL DRAWING
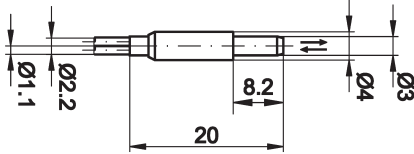
INSTALLATION

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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