

LS208161

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
Ejection control	Yes
End piece length	17 mm
End piece thread pitch	0.7 mm
Fiber diameter	1 mm
Fiber optics core material	Plastic
Heavy soiling	Yes
Housing design	Cylinder plain
Housing material	Brass
Material of cable sheath	Silicone
Metric thread size of end piece	4 mm
Number of fibers	2
Overall length	2000 mm
Punching tools	Yes
Sensing head diameter	4 mm
Sheathing material	Metal inner helix/braided glass fibers
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
Max. switching distance	200 mm
Metric thread size of sensing head	4 mm
Sensing head length	20 mm

ELECTRICAL DATA

With blanking function

No

OPTICAL DATA

Range

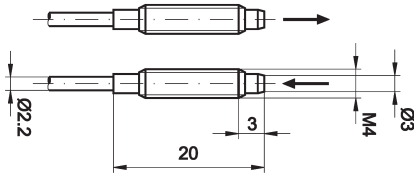
200 mm

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!