

LS502911

Fiber optic sensors • Fiber optic glass barrier

Light guide barrier, 5m, head: stainless steel 37lang Ø4 Ø8, light emission axial, conductor: glass fiber+stainless steel, end piece: M12x1 brass, -40-300°C



Fiber optics in conjunction with the appropriate fiber optic amplifier are contactless and wear-free position switches that can also be used under harsh environmental conditions. They detect objects regardless of their nature (e.g. shape, color, surface structure, material). Since the light guide ends or heads have small dimensions and the light guides are also flexible, object detection in hard-to-reach places can be solved very elegantly. Light guides can be used without special precautions in potentially explosive atmospheres and in zones with electric and/or magnetic fields (high-voltage installations, electric welding equipment), since their function is not impaired by this. Fiber optics are available in versions for implementing the function as through-beam photoelectric switches or momentary-action switches.

Electrical features

Bending section of the sensing head	0 mm
Bending angle of the sensing head	90 °
Short-circuit protection	No
Sensing head length	37 mm
Reverse polarity protection	No

Mechanical features

Type of fiber	Multi
Design	Cylinder plain
Sensing head diameter 1	4
Sensing head diameter 2	8
Fiber diameter	2.3 mm
End piece diameter	14 mm
Fiber optic cable diameter, receiver end	6.7
Fiber optic cable diameter, transmitter end	6.7
Sensing head diameter	4 mm
Number of fibers	2
End piece thread pitch	1 mm
Length	5000 mm
End piece length	36 mm
Sheathing material	Stainless steel
End piece material	Brass
Fiber optics core material	Glass
Sensing head material	Stainless steel
Ejection control	Yes
Strong vibration / motion	Yes
Design of the fiber optic connection	screw fitting M12
Thread dimension of the end piece	M12
Ambient temperature	-40 - 300 °C

Optical features

Light exit	axial
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Other features

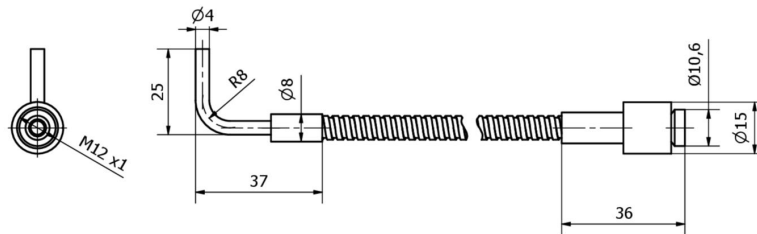
Feeding technology	Yes
ardTE00_Anwendungen	Stanzwerkzeuge starke Verschmutzung

Classification

ETIM 8	EC002651 Fiber optic sensor/amplifier
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More

IPF Product Group	150 glass fibers
packaging dimensions	375 x 250 x 22 mm
gross weight	662 g
Customs tariff number	90011090
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Dimensional drawing**Installation**

Mounting / installation may only be carried out by a qualified electrician!

**Disposal**

WEEE number according to § 6 para. 3
ElektroG: 40951076

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.