

LS030309

Fiber optic sensors • Fiber optic glass barrier

fiber optic barrier, 0.3m, head: Stainless steel 35long Ø3.5 Ø8, Light exit Axial, conductor: Glassfiber+Silicone, end piece: M18x1 Brass, Sn: 300, -40-180°C, IP67

including 2x Mounting clip AY000008



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.

Electrical features

Bending section of the sensing head	0mm
Bending angle of the sensing head	0°
Short-circuit protection	No
Sensing head length	35mm
Switching distance	0 - 300mm
Reverse polarity protection	No

Mechanical features

Type of fiber	Multi
Design	Cylinder plain
Bending radius (flexible)	50mm
Bending radius (fixed)	25mm
Sensing head diameter 1	3.5
Sensing head diameter 2	8
Fiber diameter	2.3mm
End piece diameter	20mm
Fiber optic cable diameter, receiver end	6.7
Fiber optic cable diameter, transmitter end	6.7
Sensing head diameter	3.5mm
Number of fibers	2
End piece thread pitch	1mm
Length	300mm
End piece length	28mm
Degree of protection (IP)	IP67
Sheathing material	Silicone
End piece material	Brass
Fiber optics core material	Glass
Sensing head material	Stainless steel
Ejection control	Yes
Punching tools	Yes
Strong vibration / motion	Yes
Heavy soiling	Yes
Design of the fiber optic connection	screw fitting M18
Thread dimension of the end piece	M18
Ambient temperature	-40 - 180°C

Optical features

Light exit	axial
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Other features

Feeding technology	Yes
Ambient temperature	-40 - 180°C
Version	Through-beam sensor

Classification

ETIM 8	EC002651 Fiber optic sensor/amplifier
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More

IPF Product Group	150 glass fibers
packaging dimensions	123 x 77 x 25 mm
gross weight	80 g
Customs tariff number	90011090
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

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.

Never use these devices in applications where the safety of a person depends on their functionality.

For suitable connection and mounting accessories, please refer to our website www.ipf-electronic.com.

Dimensional drawing

