# **IPF** ELECTRONIC

### LS100311

## FIBER OPTIC SENSORS • FIBER OPTICS GLASS 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**

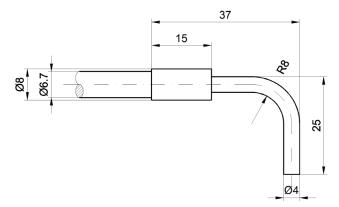
Sensing head diameter	4 mm
Punching tools	Yes
Overall length	1000 mm
Number of fibers	2
Material of cable sheath	Silicone
Increased ambient temperature ≤ 180°C	Yes
Housing material	Stainless steel
Housing design	Cylinder plain
Heavy soiling	Yes
Fiber optics core material	Glass
Fiber diameter	6.7 mm
End piece length	15 mm
Ejection control	Yes
Degree of protection (IP)	IP67
Bending radius (flexible)	50 mm
Bending radius (fixed)	25 mm
Ambient temperature	-40 °C 180 °C

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

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ELECTRICAL DATA	
Max. switching distance	600 mm
Sensing head length	37 mm
With blanking function	No
OPTICAL DATA	
Range	600 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!