

LT107206

Fiber optic sensors • Fiber optics plastic fiber diffuse-reflection sensor

Photoconductive diffuse reflection sensor, 1m, head: Ø1.5, axial light exit, conductor: plastic fiber+plastic 1xØ0.5mm, -55-80°C, IP40



Photoconductors in conjunction with the appropriate fiber optics amplifier are contactless and wear-free position switches that can also be used in harsh environmental conditions. They detect objects regardless of their properties (e.g. shape, color, surface structure, material). As the photoconductive ends or heads have small dimensions and the fiber optics are also flexible, object detection in hard-to-reach places can be solved very elegantly. Fiber optics can be used without special precautions in potentially explosive areas and in zones with electrical and/or magnetic fields (high-voltage systems, electrical welding equipment), as their function is not impaired by this. Fiber optics are available in versions to implement the function as a through-beam light barrier or diffuse reflection sensor.

Electrical features

Bending angle of the sensing head	0 °
Switching distance	0 - 20 mm
ardTEEL_Schutzfunktionen	Verpolungsschutz Kurzschlusschutz

Mechanical features

Type of fiber	Multi
Design	Cylinder plain
Bending radius (flexible)	10 mm
Bending radius (fixed)	4 mm
Sensing head diameter 1	1.5
Fiber diameter	0.5 mm
End piece diameter	2.2 mm
Fiber optic cable diameter, receiver end	1
Fiber optic cable diameter, transmitter end	1
Sensing head diameter	1.5 mm
Number of fibers	1
Length	1000 mm
End piece length	16.7 mm
Degree of protection (IP)	IP40
Sheathing material	Plastic
Fiber optics core material	Plastic
Design of the fiber optic connection	terminal connection
Ambient temperature	-55 - 80 °C

Optical features

Light exit	axial
Nominal operating distance	20 mm

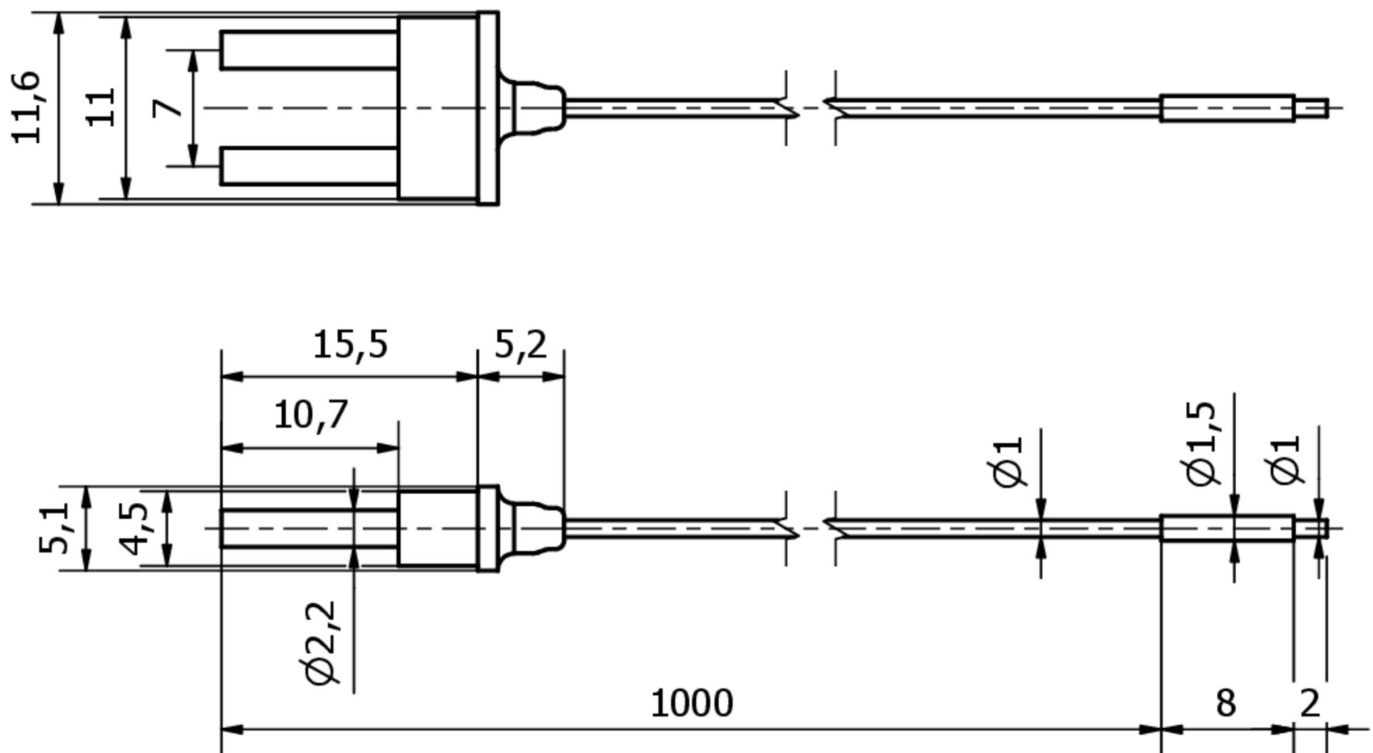
Classification

ETIM 8

More

IPF Product Group	151 plastic fibers
packaging dimensions	123 x 77 x 25 mm
gross weight	17 g
Customs tariff number	90011090
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Dimensional drawing



Extract accessories program

OL100341



fiber optic-amplifier,
30x70x10mm, 12-24V DC, 1x PNP
NC/NO, Plug-in connection 3pin,
IP40, Plastic ABS, Blue light

OL100343



Fiber optics amplifier,
30x70x10mm, 12-24V DC, 1x PNP
NC/NO, 3-pin plug connection,
IP40, ABS plastic, infrared light

AL000007



accessories fiber optic, Fiber
cutter, barrier, diffuse-reflection
sensor, 13mm high, Cubic,
Stainless steel

You can find further accessories on our homepage

**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.