

## OL150175

### Fiber optic sensors • Amplifier fiber optics plastic fiber

Fiber optics amplifier, 30x30x15mm, 10-35V DC, 1x PNP light-on mode, M8 connector 3-pin, IP67, PBTP, red light unpolarized



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

Response/decay time	0.5 ms
Number of switching outputs	1
Display	LED display
Type of switching function	Light switching
Type of electrical connection	Connector M8
Type of switching output	PNP
Rated switching current	200 mA
Setting procedure	Potentiometer
Relative hysteresis	10 %
No-load current	15 mA
Number of pins	3
Switching frequency	1000 Hz
Voltage drop	2 V
Scanning function	Light switching
Decay time	0.5 ms
Operating voltage (DC)	10 - 35 V
Output functions	Switching point
ardSOCA_ElektrischerAnschluss	M8 3-pin plug connector
ardSOCA_Betriebsspannung	10-35VDC
ardTEEL_Schutzfunktionen	Short circuit protection   Reverse polarity protection

**Mechanical features**

Design	Cuboid
Width	15 mm
Height	30 mm
Length	30 mm
Mounting method	Screw mounting
Degree of protection (IP)	IP67
Housing material	PBT
Design of the fiber optic connection	terminal connection
Ambient temperature	-25 - 55 °C
ardSOCA_Abmessungen	30x15x30mm

**Optical features**

Light source	Polarity free red light
Wavelength of the sensor	660 nm

**Other features**

Reference medium / object	Measuring plate 100x100mm, white
---------------------------	----------------------------------

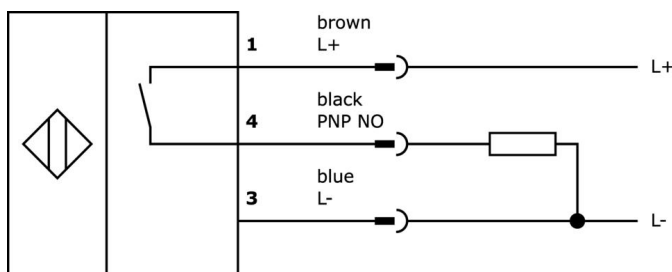
**Classification**

ETIM 8	EC002651 Fiber optic sensor/amplifier
--------	---------------------------------------

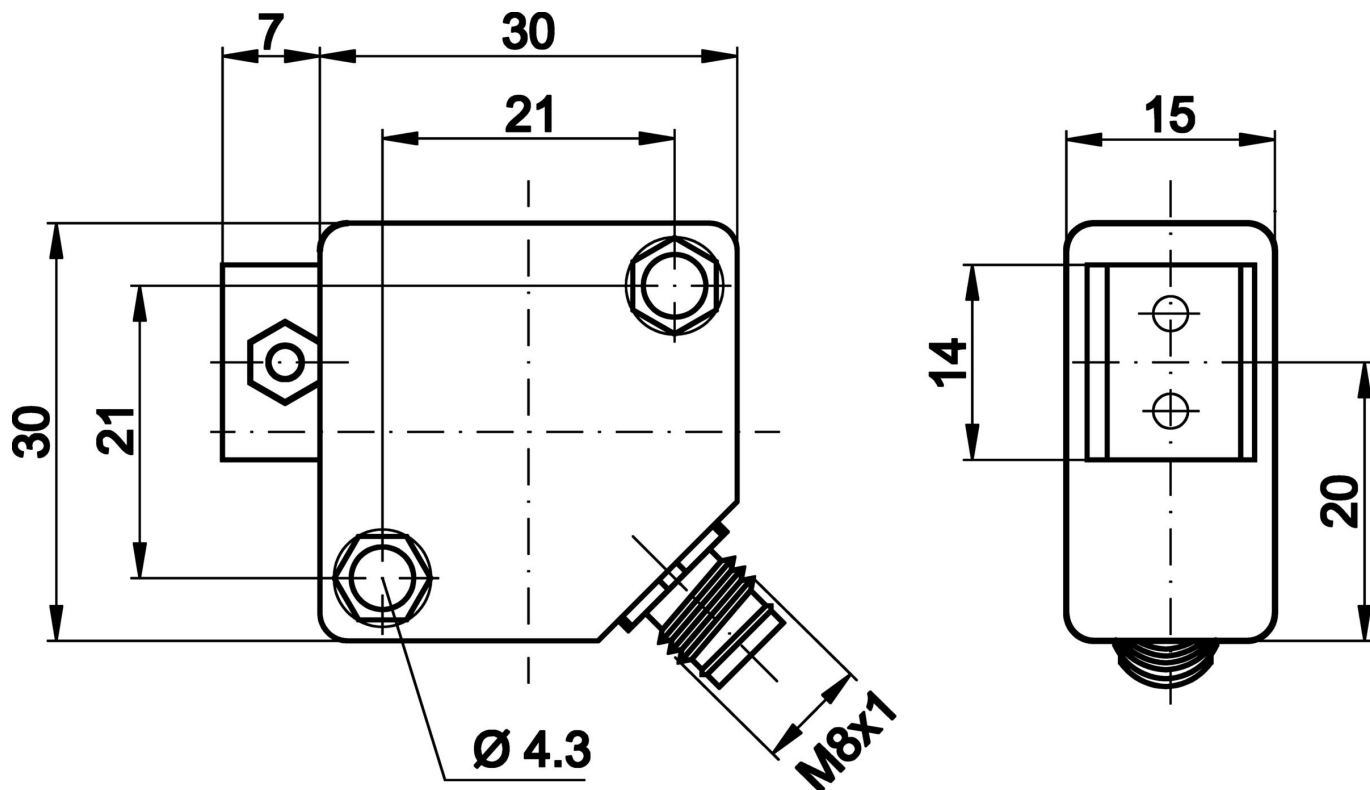
**More**

IPF Product Group	152 fiber optic amplifiers
packaging dimensions	210 x 185 x 15 mm
gross weight	27 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

**Connection**




**Dimensional drawing**



**Extract accessories program**


**VK030F82**

 Connection cable, 0.3m, M8 socket 3-pin angular, M12 connector 3-pin straight, 3x0.34mm<sup>2</sup>, PUR (polyurethane), IP67, LED, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free


**VK060F82**

 Connection cable, 0.6m, M8 socket 3-pin angular, M12 connector 3-pin straight, 3x0.34mm<sup>2</sup>, PUR (polyurethane), IP67, LED, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free


**AY000070**

 Tool, Flat-tip screwdriver, 1.6x0.4mm, Grip design 1-component


**AY000154**

 Tool, Screwdriver set, Internal hexagon 0.7mm, Internal hexagon 0.9mm, Internal hexagon 1.3mm, Internal hexagon 1.5mm, Internal hexagon 2mm, Slot 1.5mm, Slot 2mm, Slot 2.5mm, Chromium steel


**LS207003**

 fiber optic barrier, 2m, head: Stainless steel 16long M2.6 M2.6x0.45 M4x0.7, Light exit Axial, conductor: Plasticfiber+Plastic, -55-80°C, IP67, for attachment optics


**LS207009**

 fiber optic barrier, 2m, head: Stainless steel 12long M3 M3x0.5 Ø2, Light exit Axial, conductor: Plasticfiber+Plastic, -55-80°C, IP67


**LT107205**

 fiber optic diffuse-reflection sensor, 1m, head: Ø1.5, Light exit Axial, conductor: Plasticfiber+Plastic, -55-80°C, IP40

**LT207001**

 fiber optic diffuse-reflection sensor, 2m, head: Stainless steel 17long M6x0.75, Light exit Axial, conductor: Plasticfiber+Plastic, -55-80°C, IP67

**VK030F80**

 Connection cable, 0.3m, M8 socket 3-pin angular, M12 connector 3-pin straight, 3x0.34mm<sup>2</sup>, PUR (polyurethane), 60V, IP67, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

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.