

# OL110340

## Fiber optic sensors • Amplifier fiber optics plastic fiber

Fiber optics amplifier, 10x32x75mm, 12-24V DC, PNP NC/NO, plug connection 3-pin, IP40, plastic, red light unpolarized

including Protective sticker

- / Multi-timer function**
- / Teach-in button for fully automatic teach-in**
- / Various teach-in options**



**4-digit dual display for threshold and current measured value**  
**Compact design for top-hat rail mounting**

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           | 0.025 ms                                      |
| Number of switching outputs   | 1   |
| Display                       | LED display   LED display                     |
| Type of switching function    | Normally closed contact/normally open contact |
| Type of electrical connection | Plug-in connection                            |
| Type of switching output      | PNP   |
| Rated switching current       | 100 mA  |
| Setting procedure             | Parameterization   Teach-In                   |
| Short-circuit protection      | Yes   |
| No-load current               | 40 mA   |
| Number of pins                | 3   |
| Residual ripple               | 10 %  |
| Switching frequency           | 10000 Hz                                      |
| Voltage drop                  | 2 V   |
| Scanning function             | Light-/dark-on mode                           |
| Operating voltage (DC)        | 12 - 24 V                                     |
| Time function                 | Yes   |
| Output functions              | Switching point                               |

**Mechanical features**

|                                      |                     |
|--------------------------------------|---------------------|
| Design                               | Cuboid              |
| Width                                | 10 mm               |
| Height                               | 32 mm               |
| Length                               | 75 mm               |
| Mounting method                      | Top hat rail        |
| Degree of protection (IP)            | IP40                |
| Housing material                     | Plastic PC          |
| Design of the fiber optic connection | terminal connection |
| Ambient temperature                  | -10 - 55 °C         |

**Optical features**

|                          |                         |
|--------------------------|-------------------------|
| Light source             | Polarity free red light |
| Wavelength of the sensor | 643 nm                  |

**Other features**

|  |           |
|--|-----------|
| Relative air humidity (non-condensing) | 35 - 85 % |
|--|-----------|

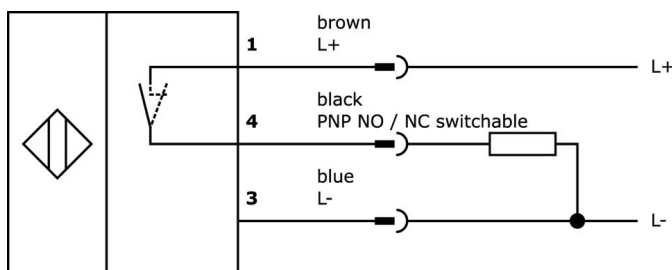
**Classification**

|        |
|--------|
| ETIM 8 |
|--------|

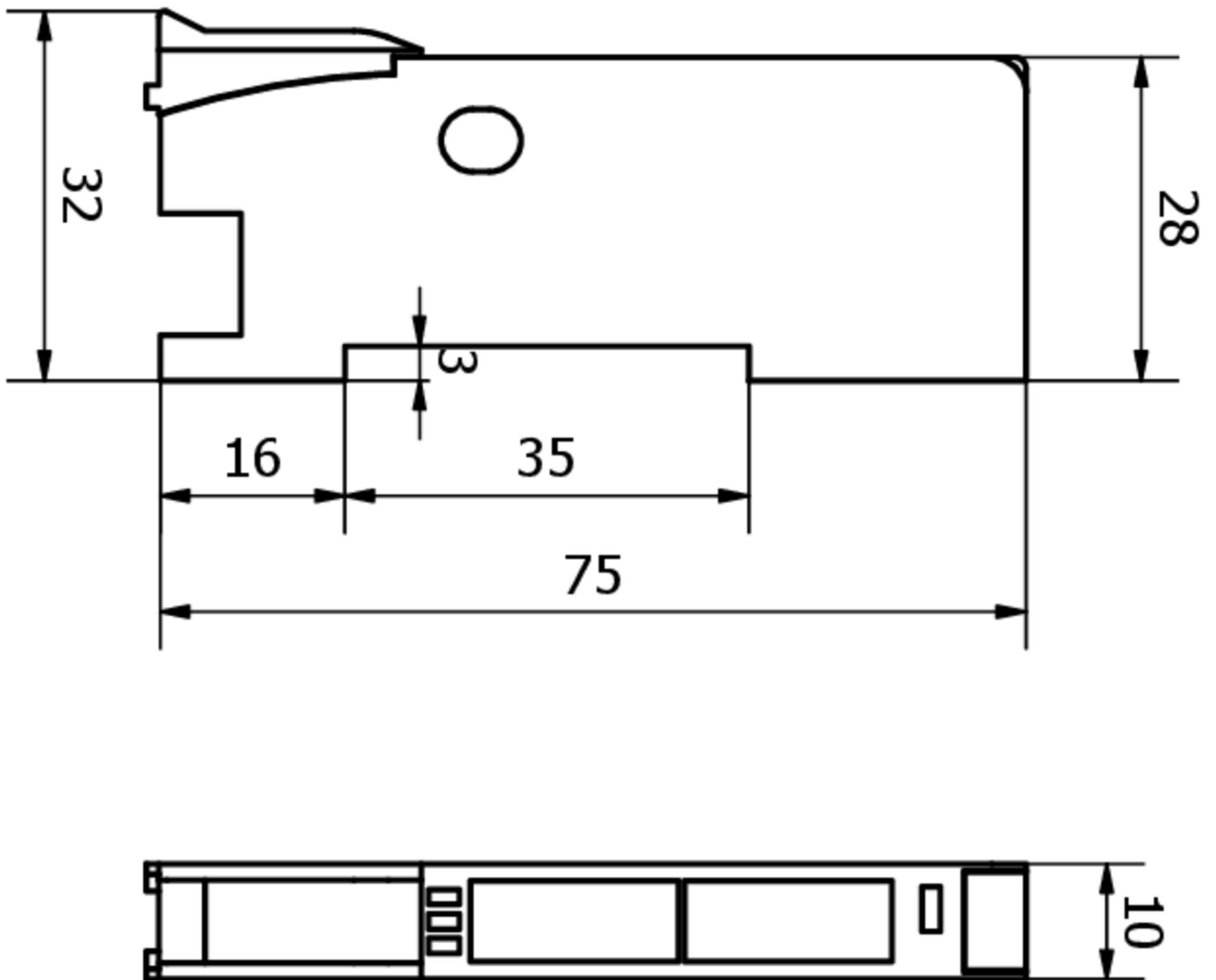
**More**

|                       |                            |
|-----------------------|----------------------------|
| IPF Product Group     | 152 fiber optic amplifiers |
| packaging dimensions  | 149 x 124 x 28 mm          |
| gross weight          | 36 g                       |
| Customs tariff number | 85365019                   |
| WEEE number           | 40951076                   |
| Reach-compliant       | Yes                        |
| RoHS-compliant        | Yes                        |

**Connection**



Dimensional drawing



**Extract accessories program**

**AL000013**



Accessories, fiber optics, cable, 2m, blade terminal socket 3-pin straight, free cable tail, 3-wire, PUR (polyurethane), Ø3mm, plastic, welding area

**AL000014**



Accessories, fiber optics, cable, 5m, blade terminal socket 3-pin straight, free cable tail, 3-wire, PUR (polyurethane), Ø3mm, plastic, welding area

**AL000015**



DIN rail acc. EN60715, 7, 5x10x35mm, Steel Chrome-plated, Perforation

**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

**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

**AL000003**



accessories fiber optic, Plastic fiber, barrier, Ø2,2mm, Simplex, Plastic+Plastic, yard good

**AL000004**



accessories fiber optic, Optic top part, diffuse-reflection sensor, infrared, Ø25mm 100long, Round, Aluminum+Glass

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.