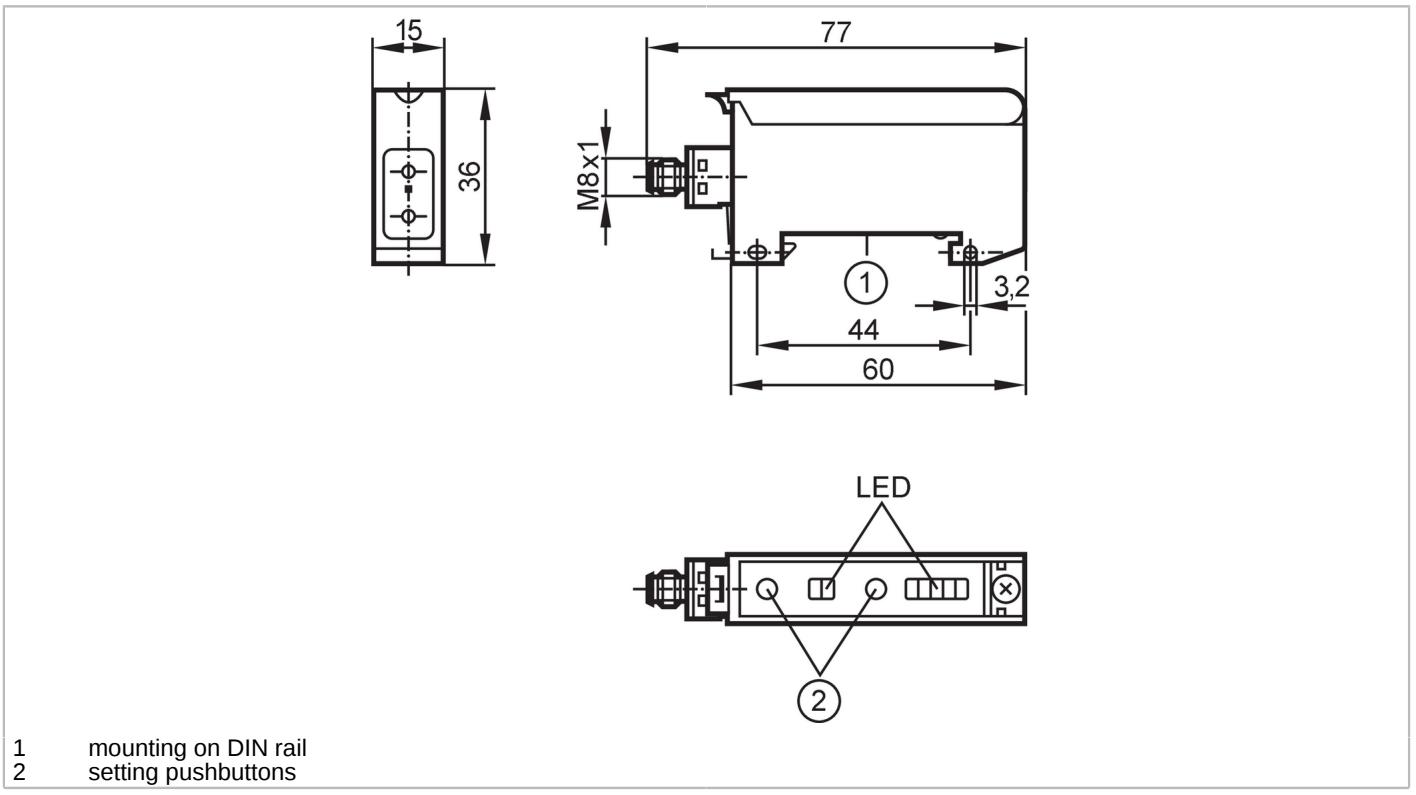
# OBF505

## Fibre-optic amplifier

OBF-FAKG/T/AS




1 mounting on DIN rail
2 setting pushbuttons

| | | |
|---|---|---|
| **Product characteristics** | | |
| Type of light | | red light |
| Housing | | rectangular |
| **Application** | | |
| Special feature | | Function check output |
| Design | | Fibre-optic amplifiers for glass fibre optics, for fibre optics with metal sheath, FE/FT-50 |
| Application | | High switching frequency for fast processes |
| **Electrical data** | | |
| Operating voltage | [V] | 10...30 DC |
| Current consumption | [mA] | < 50 |
| Protection class | | III |
| Reverse polarity protection | | yes |
| Type of light | | red light |
| **Outputs** | | |
| Electrical design | | PNP/NPN; (automatic load detection PNP/NPN) |
| Output function | | light-on/dark-on mode; (programmable) |
| Max. voltage drop switching output DC | [V] | 2.5 |
| Function check output | | yes |
| Max. voltage drop of function check output | [V] | 2.5 |
| Max. current load for function check output | [mA] | 10 |

# OBF505

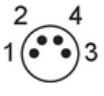
## Fibre-optic amplifier

OBF-FAKG/T/AS

| | | |
|---|---|---|
| Permanent current rating of switching output DC [mA] | | 100 |
| Switching frequency DC [Hz] | | 1000 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | pulsed |
| Overload protection | | yes |
| Time function [s] | | 0.001...0.09 |
| **Detection zone** | | |
| Range [m] | | 0...1; (Through-beam sensor) |
| Range [mm] | | 0...150; (Diffuse reflection sensor) |
| Range adjustable | | yes |
| **Operating conditions** | | |
| Ambient temperature [°C] | | -25...60 |
| Protection | | IP 65 |
| **Tests / approvals** | | |
| EMC | EN 60947-5-2 | |
| MTTF [years] | | 806 |
| **Mechanical data** | | |
| Weight [g] | | 47.8 |
| Housing | | rectangular |
| Type of mounting | | mounting on DIN rail; (TH35 (EN 60715)) |
| Dimensions [mm] | | 36 x 15 x 60 |
| Number of channels | | 1 |
| Materials | | housing: PPE modified |
| **Displays / operating elements** | | |
| Display | switching status | 1 x LED, yellow |
| | operation | 1 x LED, green |
| | unsafe zone | 1 x LED, red |
| | excess gain | 4 x LED, green |
| **Remarks** | | |
| Remarks | | light-on mode corresponds to the NC output function for through-beam fibre optics |
| | | corresponds to the NO output function for diffuse-reflection fibre optics |
| | | dark-on mode corresponds to the NO output function for through-beam fibre optics |
| | | corresponds to the NC output function for diffuse-reflection fibre optics |
| | | operating voltage "supply class 2" according to cULus |
| Pack quantity | | 1 pcs. |

**Electrical connection**

Connector: 1 x M8; coding: A; Contacts: 4

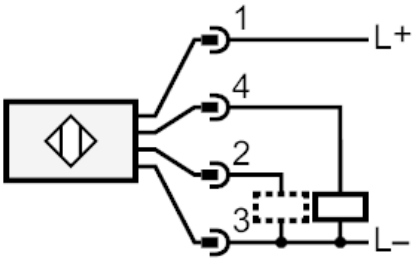


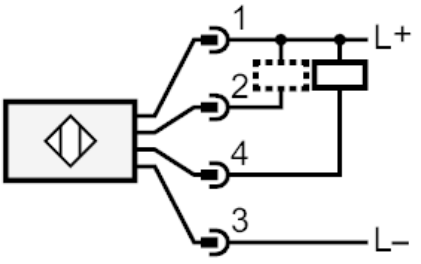
# OBF505

## Fibre-optic amplifier

**OBF-FAKG/T/AS**

## Connection




| | |
|---|---|
| 2 | Function check output |