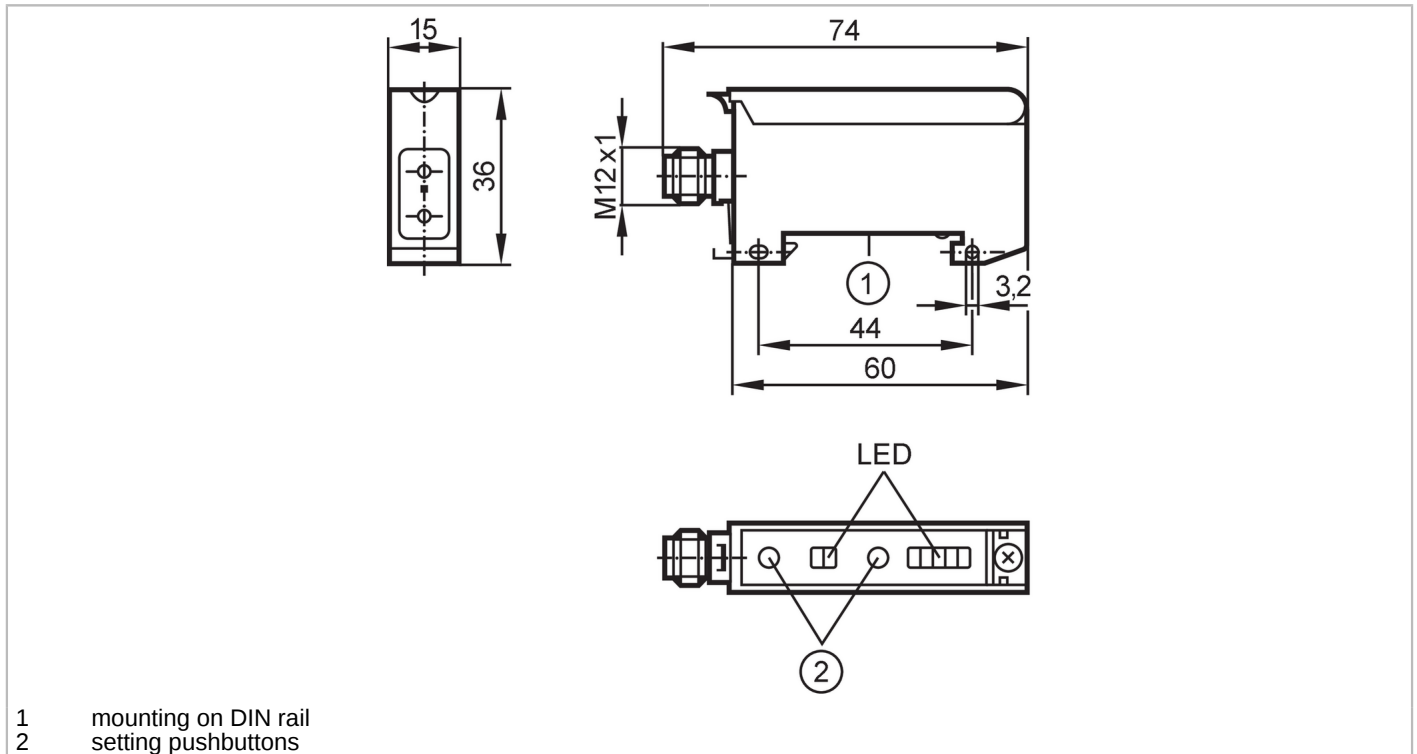


OBF504



Fibre-optic amplifier

OBF-FAKG/T/US



| 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 |
| 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 |
| Permanent current rating of switching output DC [mA] | 100 |

OBF504



Fibre-optic amplifier

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| | | |
|----------------------------------|------|--------------|
| 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] | 46.9 |
| 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 M12; coding: A



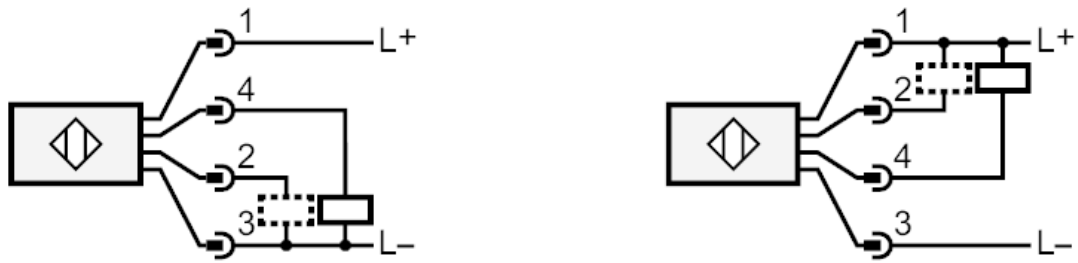
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Connection



2

Function check output