

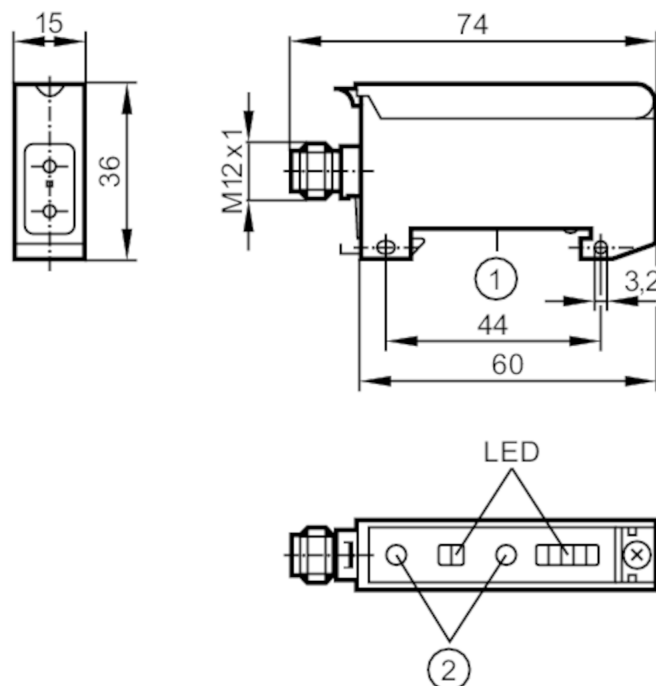
## Fibre-optic amplifier

OBF-FNKG/T/US

Article no longer available - archive entry

Alternative articles: OBF504

When selecting an alternative article and accessories please note that technical data may differ!



- 1 mounting on DIN rail  
2 setting pushbuttons

## Product characteristics

|               |             |
|---------------|-------------|
| Type of light | red light   |
| Housing       | rectangular |

## Application

|                 |                                             |
|-----------------|---------------------------------------------|
| Special feature | Function check output                       |
| Design          | for fibre optics with metal sheath FE/FT-50 |

## Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...36 DC |
| Current consumption         | [mA] | < 35       |
| Protection class            |      | III        |
| Reverse polarity protection |      | yes        |
| Type of light               |      | red light  |
| Wave length                 | [nm] | 660        |

## Outputs

|                                       |                                          |
|---------------------------------------|------------------------------------------|
| Electrical design                     | NPN                                      |
| Output function                       | light-on/dark-on mode; (parameterisable) |
| Max. voltage drop switching output DC | [V]<br>2.5                               |
| Function check output                 | yes                                      |



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|                                                 |      |              |
|-------------------------------------------------|------|--------------|
| Max. voltage drop of function check output      | [V]  | 3.5          |
| Max. current load for function check output     | [mA] | 10           |
| Permanent current rating of switching output DC | [mA] | 100          |
| Switching frequency DC                          | [Hz] | 500          |
| Short-circuit protection                        |      | yes          |
| Type of short-circuit protection                |      | pulsed       |
| Overload protection                             |      | yes          |
| Time function                                   | [s]  | 0.002...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 |         |
|     | EN 55011     | class B |

## Mechanical data

|               |      |              |
|---------------|------|--------------|
| Housing       |      | rectangular  |
| Dimensions    | [mm] | 36 x 15 x 60 |
| Materials     |      | ABS          |
| Lens material |      | PMMA         |

## 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         |
| Pack quantity | 1 pcs.                                                                            |



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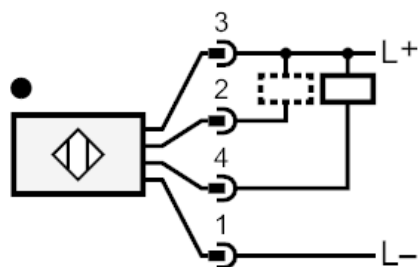
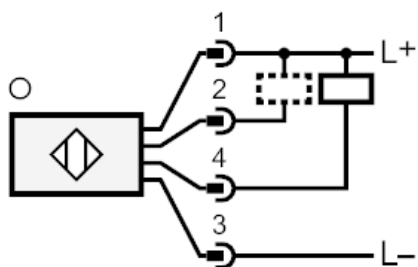
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### Electrical connection

Connector: 1 x M12; coding: A



### Connection



2 Function check output