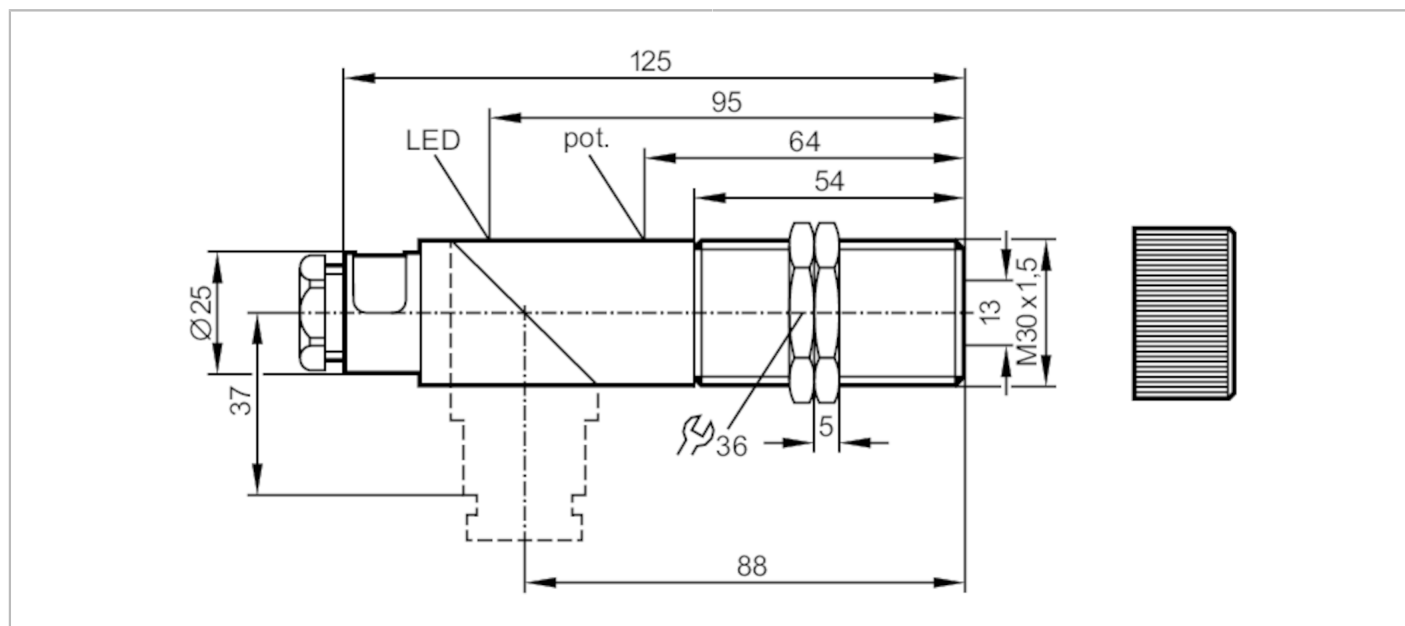


## Fibre-optic amplifier

OIF-FPKG



## Product characteristics

|               |                |
|---------------|----------------|
| Type of light | infrared light |
| Housing       | threaded type  |

## Electrical data

|                             |      |                |
|-----------------------------|------|----------------|
| Operating voltage           | [V]  | 10...55 DC     |
| Current consumption         | [mA] | 30; ((24 V))   |
| Protection class            |      | II             |
| Reverse polarity protection |      | yes            |
| Type of light               |      | infrared light |
| Wave length                 | [nm] | 880            |

## Outputs

|                                                 |      |                                       |
|-------------------------------------------------|------|---------------------------------------|
| Electrical design                               |      | PNP                                   |
| Output function                                 |      | light-on/dark-on mode; (programmable) |
| Max. voltage drop switching output DC           | [V]  | 2.5                                   |
| Permanent current rating of switching output DC | [mA] | 250                                   |
| Switching frequency DC                          | [Hz] | 100                                   |
| Short-circuit protection                        |      | yes                                   |
| Type of short-circuit protection                |      | pulsed                                |
| Overload protection                             |      | yes                                   |

## Detection zone

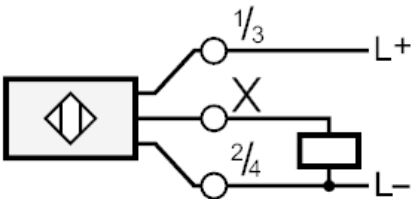
|                  |      |       |
|------------------|------|-------|
| Range            | [m]  | < 0.3 |
| Range            | [mm] | < 70  |
| Range adjustable |      | yes   |



Fibre-optic amplifier

OIF-FPKG

| Operating conditions                                                     |                                                                                   |                     |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------|
| Ambient temperature                                                      | [°C]                                                                              | -25...80            |
| Protection                                                               |                                                                                   | IP 65               |
| Tests / approvals                                                        |                                                                                   |                     |
| EMC                                                                      | EN 60947-5-2                                                                      |                     |
| MTTF                                                                     | [ANN]                                                                             | 659                 |
| Mechanical data                                                          |                                                                                   |                     |
| Weight                                                                   | [g]                                                                               | 125.5               |
| Housing                                                                  |                                                                                   | threaded type       |
| Dimensions                                                               | [mm]                                                                              | M30 x 1.5 / L = 125 |
| Thread designation                                                       |                                                                                   | M30 x 1.5           |
| Materials                                                                |                                                                                   | PBT; PPO modified   |
| Lens material                                                            |                                                                                   | PMMA                |
| Displays / operating elements                                            |                                                                                   |                     |
| Display                                                                  | switching status                                                                  | 1 x LED, yellow     |
| Аксессуары                                                               |                                                                                   |                     |
| Items supplied                                                           | lock nuts: 2                                                                      |                     |
|                                                                          | screwdrivers                                                                      |                     |
| 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.                                                                            |                     |
| Electrical connection                                                    |                                                                                   |                     |
| terminals: ...1.5 mm²; Cable sheath: Ø 7...13 mm; Cable gland: M20 X 1.5 |                                                                                   |                     |
| Connection                                                               |                                                                                   |                     |

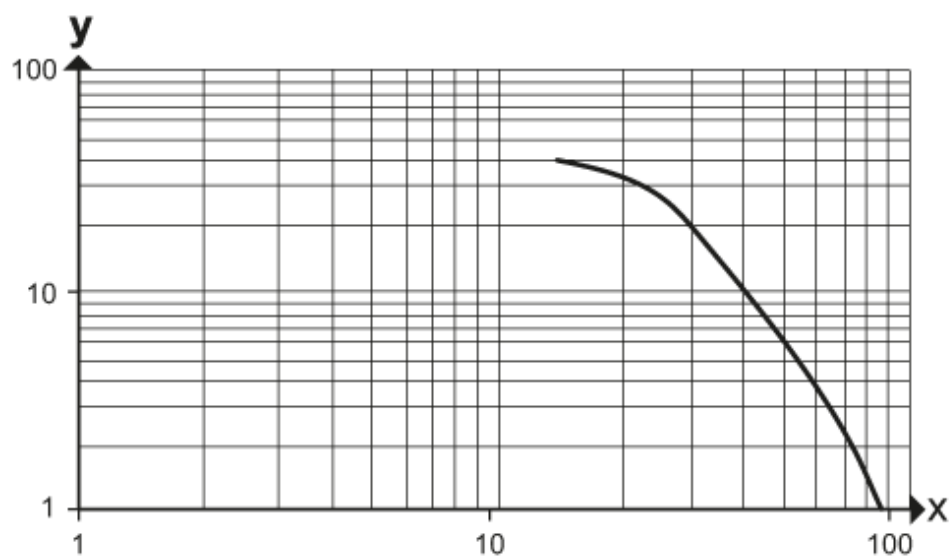


## Fibre-optic amplifier

OIF-FPKG

## Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor