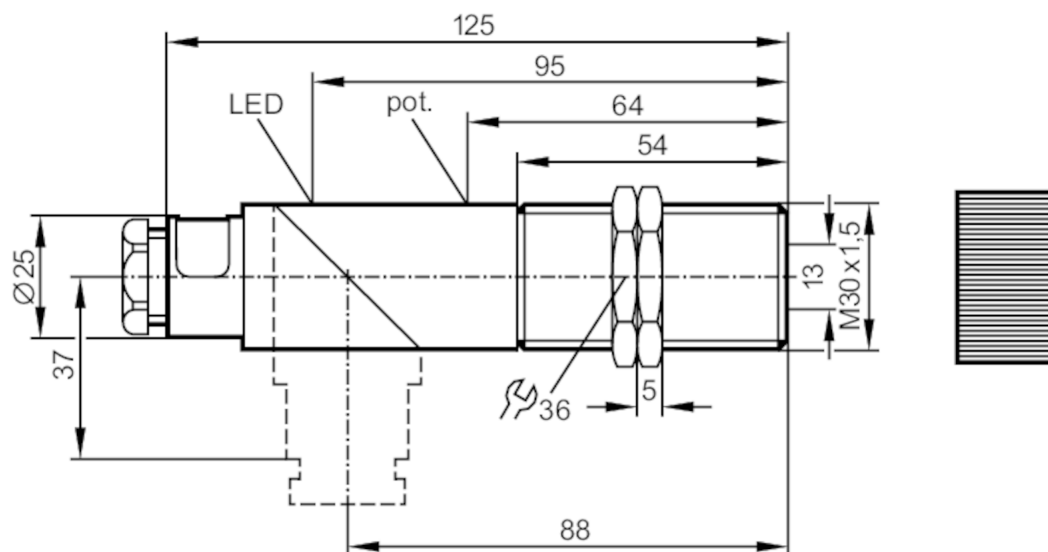




## Product characteristics

|               |                |
|---------------|----------------|
| Type of light | Infrared light |
| Housing       | Threaded type  |

### Electrical data

|                             |      |                                               |
|-----------------------------|------|-----------------------------------------------|
| Operating voltage           | [V]  | 10...55 DC; (cULus - Class 2 source required) |
| 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                     | yes (non-latching)                    |
| Overload protection                                  | yes                                   |

## Monitoring range

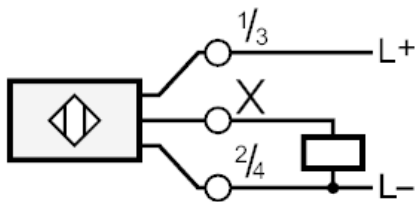
|                  |      |       |
|------------------|------|-------|
| Range            | [m]  | < 0.3 |
| Range            | [mm] | < 70  |
| Range adjustable |      | yes   |



Fiber-optic amplifier

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| Operating conditions                                                                  |                                                                             |                     |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------|
| Ambient temperature                                                                   | [°C]                                                                        | -25...80            |
| Protection                                                                            |                                                                             | IP 65               |
| Tests / approvals                                                                     |                                                                             |                     |
| EMC                                                                                   | EN 60947-5-2                                                                |                     |
| MTTF                                                                                  | [years]                                                                     | 659                 |
| UL approval                                                                           | Ta                                                                          | < 40 °C             |
|                                                                                       | Enclosure type                                                              | Type 1              |
|                                                                                       | voltage supply                                                              | Class 2             |
|                                                                                       | UL approval number                                                          | E031                |
|                                                                                       | File number UL                                                              | E174191             |
| Mechanical data                                                                       |                                                                             |                     |
| Weight                                                                                | [g]                                                                         | 125.5               |
| Housing                                                                               |                                                                             | Threaded type       |
| Dimensions                                                                            | [mm]                                                                        | M30 x 1.5 / L = 125 |
| Thread designation                                                                    |                                                                             | M30 x 1.5           |
| Number of channels                                                                    |                                                                             | 1                   |
| Material                                                                              |                                                                             | PBT; PPO modified   |
| Lens material                                                                         |                                                                             | PMMA                |
| Displays / operating elements                                                         |                                                                             |                     |
| Display                                                                               | Switching status                                                            | 1 x LED, yellow     |
| Accessories                                                                           |                                                                             |                     |
| Items supplied                                                                        | lock nuts: 2                                                                |                     |
|                                                                                       | screwdrivers                                                                |                     |
| Remarks                                                                               |                                                                             |                     |
| Remarks                                                                               | light-on mode corresponds to the NC output function for through-beam fibers |                     |
|                                                                                       | corresponds to the NO output function for diffuse-reflection fibers         |                     |
|                                                                                       | dark-on mode corresponds to the NO output function for through-beam fibers  |                     |
|                                                                                       | corresponds to the NC output function for diffuse-reflection fiber optics   |                     |
| Pack quantity                                                                         |                                                                             | 1 pcs.              |
| Electrical connection                                                                 |                                                                             |                     |
| terminals: ...1.5 mm <sup>2</sup> ; Cable sheath: Ø 7...13 mm; Cable gland: M20 X 1.5 |                                                                             |                     |
| Connection                                                                            |                                                                             |                     |

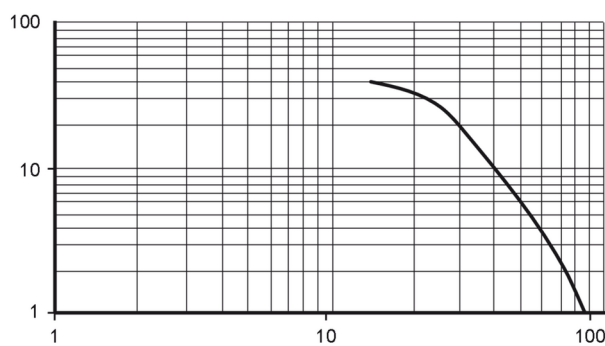


**Fiber-optic amplifier**

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**Diagrams and graphs**

excess gain graph



x: distance [mm]

y: excess gain factor