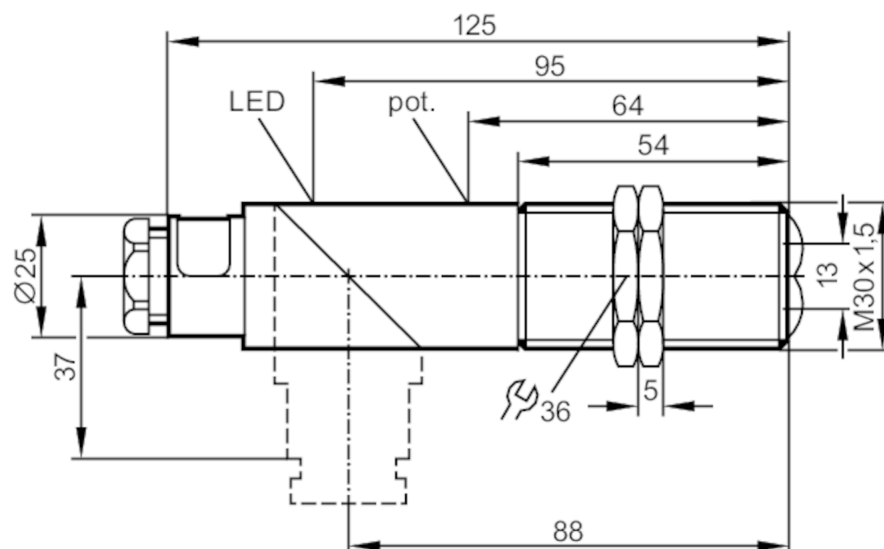




## Retro-reflective sensor

OIR-FPKG



## Application

Function principle

Retro-reflective sensor

## 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] | 950            |

## 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] | 65                                    |
| Short-circuit protection                        |      | yes                                   |
| Type of short-circuit protection                |      | pulsed                                |
| Overload protection                             |      | yes                                   |

## Detection zone

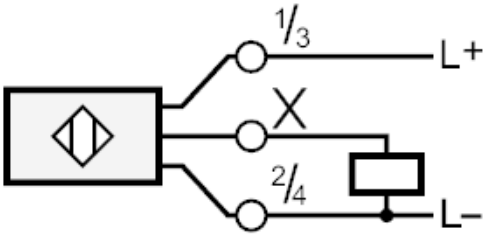
|                                       |      |                                            |
|---------------------------------------|------|--------------------------------------------|
| Range referred to prismatic reflector | [m]  | 0.1...4; (Prismatic reflector Ø 80 E20005) |
| Range adjustable                      |      | yes                                        |
| Max. light spot diameter              | [mm] | 280                                        |
| Light spot dimensions refer to        |      | at maximum range                           |



Retro-reflective sensor

OIR-FPKG

| Operating conditions                                                     |                  |                                |
|--------------------------------------------------------------------------|------------------|--------------------------------|
| Ambient temperature                                                      | [°C]             | -25...80                       |
| Protection                                                               |                  | IP 65                          |
| Tests / approvals                                                        |                  |                                |
| EMC                                                                      |                  | EN 60947-5-2                   |
| MTTF                                                                     | [years]          | 659                            |
| Mechanical data                                                          |                  |                                |
| Weight                                                                   | [g]              | 116.8                          |
| 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                |
| Accessories                                                              |                  |                                |
| Accessories (supplied)                                                   |                  | lock nuts: 2 x<br>screwdrivers |
| Remarks                                                                  |                  |                                |
| Pack quantity                                                            |                  | 1 pcs.                         |
| Electrical connection                                                    |                  |                                |
| terminals: ...1.5 mm²; Cable sheath: Ø 7...13 mm; Cable gland: M20 X 1.5 |                  |                                |
| Connection                                                               |                  |                                |





## Retro-reflective sensor

OIR-FPKG

## Diagrams and graphs

excess gain graph

