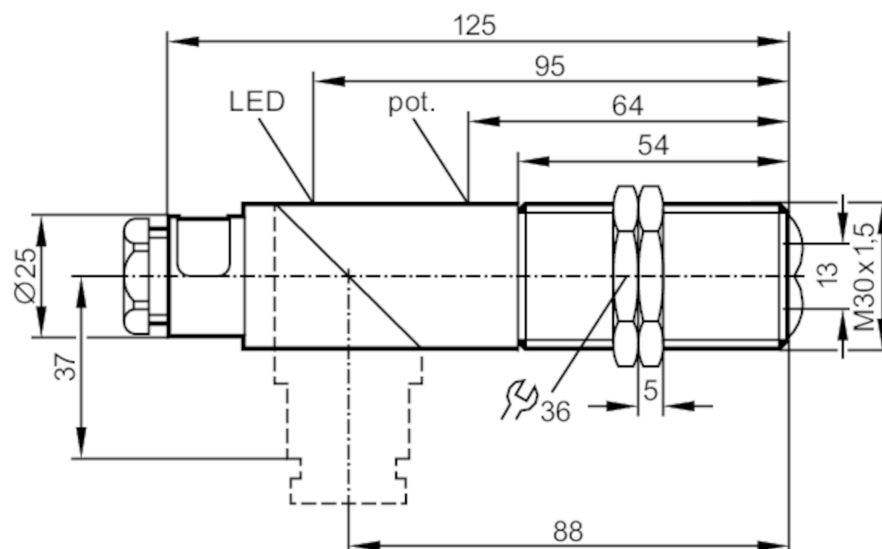


## Retro-reflective sensor

OIP-FNKG

Article no longer available - archive entry



## Product characteristics

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

## Application

|                    |                         |
|--------------------|-------------------------|
| Special feature    | polarisation filter     |
| Function principle | Retro-reflective sensor |

## Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...55 DC |
| Protection class            |      | II         |
| Reverse polarity protection |      | yes        |
| Type of light               |      | red light  |
| Wave length                 | [nm] | 660        |

## Outputs

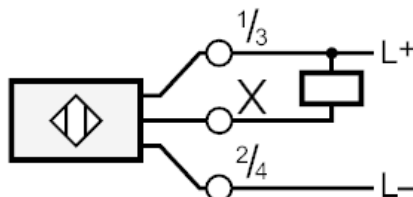
|                                                 |      |                                       |
|-------------------------------------------------|------|---------------------------------------|
| Electrical design                               |      | NPN                                   |
| Output 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                                   |



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| Detection zone                                                           |                  |                                             |
|--------------------------------------------------------------------------|------------------|---------------------------------------------|
| Range referred to prismatic reflector                                    | [m]              | 0.15...2; (Prismatic reflector Ø 80 E20005) |
| Range adjustable                                                         |                  | yes                                         |
| Max. light spot diameter                                                 | [mm]             | 200                                         |
| Light spot dimensions refer to                                           |                  | at maximum range                            |
| Polarisation filter available                                            |                  | yes                                         |
| Operating conditions                                                     |                  |                                             |
| Ambient temperature                                                      | [°C]             | -25...60                                    |
| Protection                                                               |                  | IP 65                                       |
| Tests / approvals                                                        |                  |                                             |
| EMC                                                                      | EN 60947-5-2     |                                             |
| Mechanical data                                                          |                  |                                             |
| Weight                                                                   | [g]              | 0.124                                       |
| 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                                                              |                  |                                             |
| Items supplied                                                           | lock nuts: 2     |                                             |
|                                                                          | 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

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## Diagrams and graphs

excess gain graph

