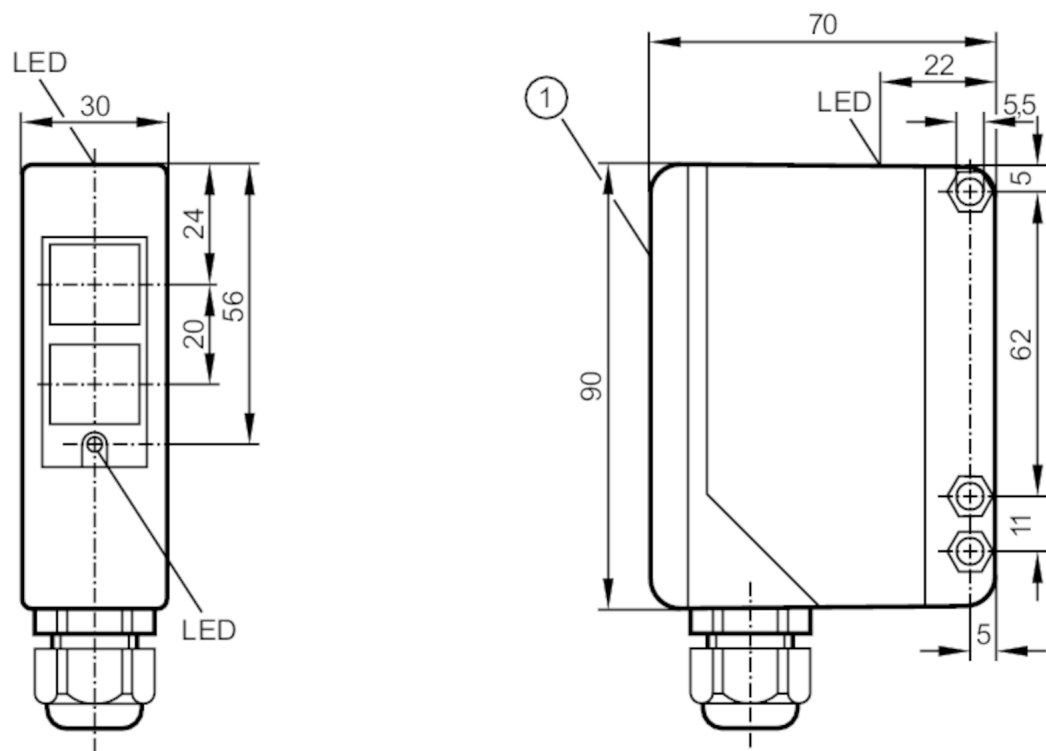




Retro-reflective sensor

OAP-FKOA/T



- 1 selection switch and potentiometer under cover  
receiver in upper lens  
transmitter in lower lens



| Product characteristics     |      |                                                |
|-----------------------------|------|------------------------------------------------|
| Type of light               |      | red light                                      |
| Housing                     |      | rectangular                                    |
| Application                 |      |                                                |
| Special feature             |      | polarisation filter                            |
| Function principle          |      | Retro-reflective sensor                        |
| Electrical data             |      |                                                |
| Frequency AC                | [Hz] | 47...63                                        |
| Operating voltage           | [V]  | 20...250 AC/DC                                 |
| Max. power consumption      | [VA] | 2                                              |
| Protection class            |      | II                                             |
| Reverse polarity protection |      | no                                             |
| Type of light               |      | red light                                      |
| Wave length                 | [nm] | 660                                            |
| Outputs                     |      |                                                |
| Electrical design           |      | relay                                          |
| Output function             |      | light-on/dark-on mode; (programmable)          |
| Contact rating              |      | 250 V AC / 3 A / 360 VA, 125 V DC / 3 A / 30 W |
| Short-circuit proof         |      | no                                             |



## Retro-reflective sensor

OAP-FKOA/T

|                                           |                                                                               |                                                   |
|-------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------|
| Overload protection                       | no                                                                            |                                                   |
| Time function [s]                         | 0.5...10                                                                      |                                                   |
| Detection zone                            |                                                                               |                                                   |
| Range referred to prismatic reflector [m] | 0.2...8; (Prismatic reflector Ø 80 E20005)                                    |                                                   |
| Range adjustable                          | yes                                                                           |                                                   |
| Max. light spot diameter [mm]             | 420                                                                           |                                                   |
| 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                                                                  |                                                   |
|                                           | EN 55011                                                                      | class B                                           |
| MTTF [years]                              | 264                                                                           |                                                   |
| Mechanical data                           |                                                                               |                                                   |
| Weight [g]                                | 305                                                                           |                                                   |
| Housing                                   | rectangular                                                                   |                                                   |
| Dimensions [mm]                           | 90 x 30 x 70                                                                  |                                                   |
| Materials                                 | PPO modified                                                                  |                                                   |
| Lens material                             | PMMA                                                                          |                                                   |
| Lens alignment                            | side lens                                                                     |                                                   |
| Displays / operating elements             |                                                                               |                                                   |
| Display                                   | switching status                                                              | 1 x LED, yellow                                   |
|                                           | operation                                                                     | 1 x LED, green                                    |
|                                           | function                                                                      | 1 x LED, red                                      |
| Operating elements                        |                                                                               | on-delay or off-delay selectable via slide switch |
| Electrical connection                     |                                                                               |                                                   |
| Required protection                       | miniature fuse to IEC60127-2 sheet 1; ≤ 5 A; fast acting                      |                                                   |
| Accessories                               |                                                                               |                                                   |
| Items supplied                            | Angle bracket: 1, E20514                                                      |                                                   |
|                                           | screwdrivers                                                                  |                                                   |
| Remarks                                   |                                                                               |                                                   |
| Remarks                                   | Recommendation: Check the safe functioning of the unit after a short circuit. |                                                   |
| Pack quantity                             | 1 pcs.                                                                        |                                                   |

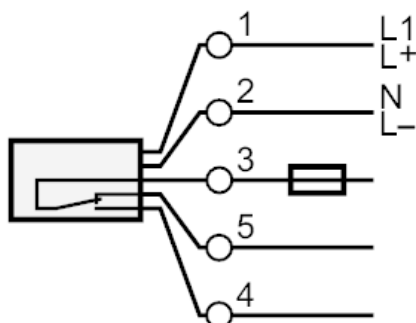
## Retro-reflective sensor

OAP-FKOA/T

### Electrical connection

terminals: ...1.5 mm<sup>2</sup>; Cable sheath: Ø 4.5...10 mm; Cable gland: M16 X 1.5

### Connection



Note : miniature fuse to IEC60127-2 sheet 1 ≤ 5 A fast acting

### Diagrams and graphs

excess gain graph

