



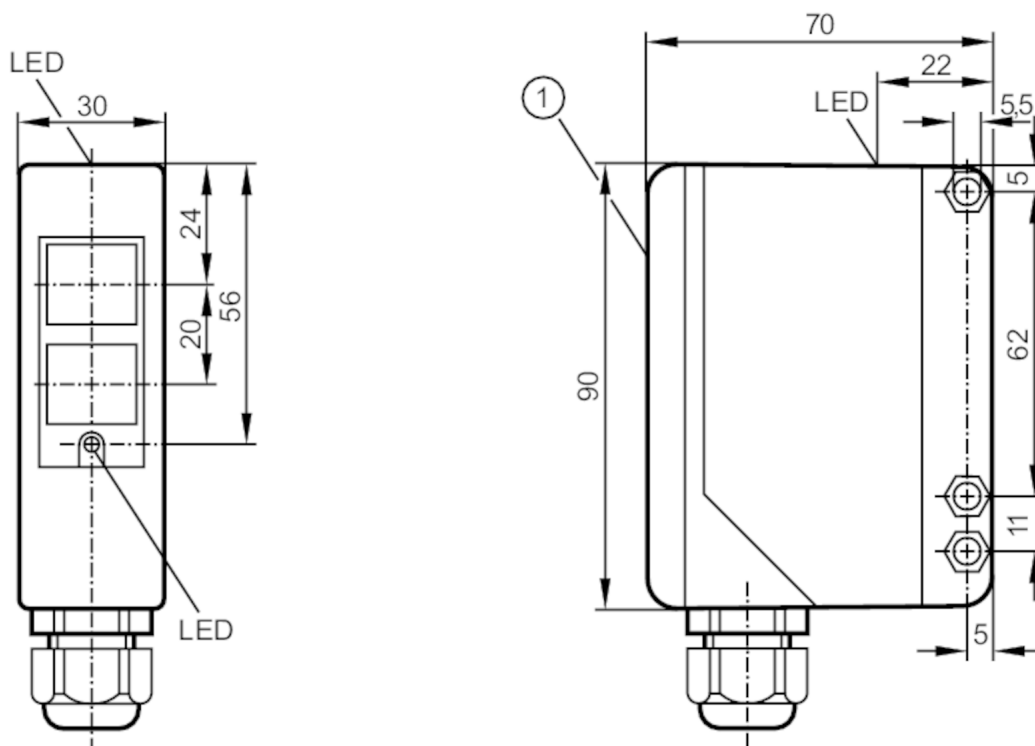
## Retro-reflective sensor

OAP-FCKG/T

Article no longer available - archive entry

Alternative articles: O4P500

When selecting an alternative article and accessories please note that technical data may differ!



- 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

|                    |                                            |
|--------------------|--------------------------------------------|
| System             | polarization filter; Function check output |
| Function principle | Retro-reflective sensor                    |

### Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...36 DC |
| Current consumption         | [mA] | < 50       |
| Protection class            |      | II         |
| Reverse polarity protection |      | yes        |
| Type of light               |      | red light  |
| Wave length                 | [nm] | 660        |

### Outputs

|                       |                                       |
|-----------------------|---------------------------------------|
| Electrical design     | PNP/NPN                               |
| Output function       | light-on/dark-on mode; (configurable) |
| Function check output | yes                                   |



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|                                                 |                          |                                                   |  |
|-------------------------------------------------|--------------------------|---------------------------------------------------|--|
| Max. current load for function check output     | [mA]                     | 10                                                |  |
| Permanent current rating of switching output DC | [mA]                     | 250                                               |  |
| Max. current load in dual output mode           | [mA]                     | 100                                               |  |
| Short-circuit protection                        |                          | yes                                               |  |
| Type of short-circuit protection                |                          | yes (non-latching)                                |  |
| Overload protection                             |                          | yes                                               |  |
| Time function                                   | [s]                      | 0.5...10                                          |  |
| Monitoring range                                |                          |                                                   |  |
| Range                                           | [m]                      | 0.2...8; (Prismatic reflector Ø 80 E20005)        |  |
| 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                                  |  |
| Polarization filter available                   |                          | yes                                               |  |
| Operating conditions                            |                          |                                                   |  |
| Ambient temperature                             | [°C]                     | -25...60                                          |  |
| Protection                                      |                          | IP 65                                             |  |
| Tests / approvals                               |                          |                                                   |  |
| EMC                                             | EN 60947-5-2             |                                                   |  |
| Mechanical data                                 |                          |                                                   |  |
| Weight                                          | [g]                      | 0.291                                             |  |
| Housing                                         |                          | rectangular                                       |  |
| Dimensions                                      | [mm]                     | 90 x 30 x 70                                      |  |
| Material                                        |                          | PPO modified                                      |  |
| Lens material                                   |                          | PMMA                                              |  |
| Displays / operating elements                   |                          |                                                   |  |
| Display                                         | Switching status         | 1 x LED, yellow                                   |  |
|                                                 | Power                    | 1 x LED, green                                    |  |
|                                                 | Function                 | 1 x LED, red                                      |  |
| Operating elements                              |                          | On-delay or off-delay selectable via slide switch |  |
| Accessories                                     |                          |                                                   |  |
| Items supplied                                  | Angle bracket: 1, E20514 |                                                   |  |
|                                                 | screwdrivers             |                                                   |  |
| Remarks                                         |                          |                                                   |  |
| Pack quantity                                   | 1 pcs.                   |                                                   |  |



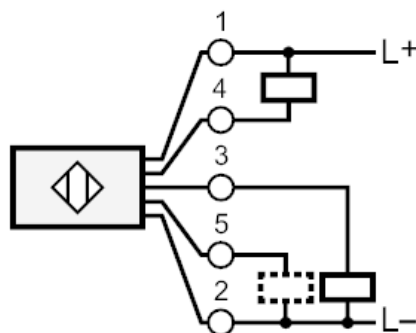
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### Electrical connection

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

### Connection



5 Function check output

### Diagrams and graphs

excess gain graph

