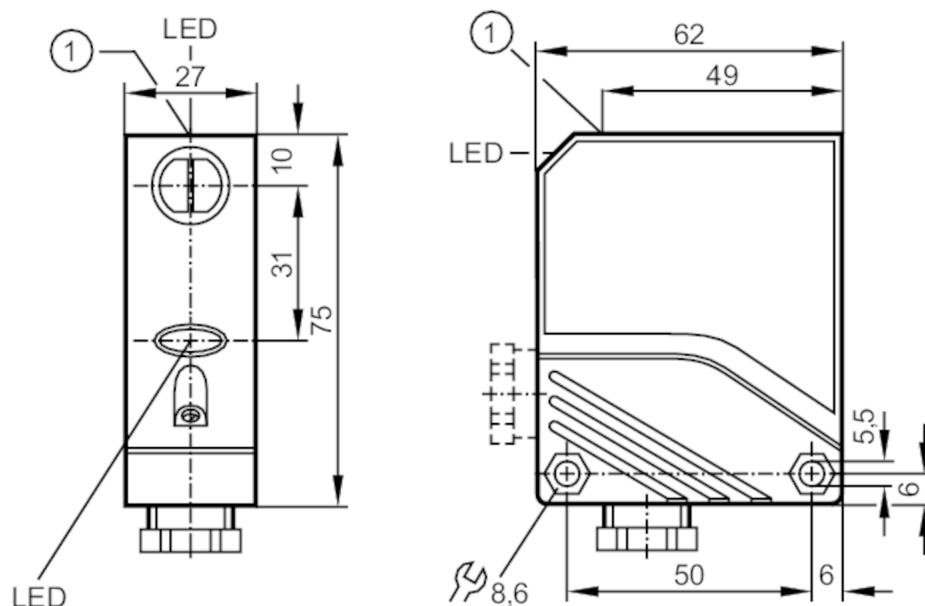




## Diffuse reflection sensor

OLT-FKOA



1 pushbutton



## Application

Function principle

Diffuse reflection sensor

## Electrical data

|                             |      |                |
|-----------------------------|------|----------------|
| Frequency AC                | [Hz] | 47...63        |
| Operating voltage           | [V]  | 20...250 AC/DC |
| Max. power consumption      | [VA] | 4              |
| Protection class            |      | II             |
| Reverse polarity protection |      | no             |
| Type of light               |      | infrared light |
| Wave length                 | [nm] | 880            |

## Outputs

|                        |      |                                                 |
|------------------------|------|-------------------------------------------------|
| Electrical design      |      | relay                                           |
| Output function        |      | light-on/dark-on mode; (programmable)           |
| Contact rating         |      | 250 V AC / 3 A / 960 VA, 125 V DC / 5 A / 120 W |
| Switching frequency AC | [Hz] | 10                                              |
| Switching frequency DC | [Hz] | 10                                              |
| Short-circuit proof    |      | no                                              |
| Overload protection    |      | no                                              |

## Detection zone

|                                |      |                                                     |
|--------------------------------|------|-----------------------------------------------------|
| Range                          | [mm] | 1...1000; (white paper 200 x 200 mm 90 % remission) |
| Range adjustable               |      | yes                                                 |
| Max. light spot diameter       | [mm] | 300                                                 |
| Light spot dimensions refer to |      | at maximum range                                    |



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| Operating conditions                                                                                                                                                                                                |                  |                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------|
| Ambient temperature                                                                                                                                                                                                 | [°C]             | -25...80                                                                      |
| Protection                                                                                                                                                                                                          |                  | IP 67                                                                         |
| Tests / approvals                                                                                                                                                                                                   |                  |                                                                               |
| EMC                                                                                                                                                                                                                 | EN 60947-5-2     |                                                                               |
|                                                                                                                                                                                                                     | EN 55011         | class B                                                                       |
| MTTF                                                                                                                                                                                                                | [years]          | 226                                                                           |
| Mechanical data                                                                                                                                                                                                     |                  |                                                                               |
| Weight                                                                                                                                                                                                              | [g]              | 169.6                                                                         |
| Housing                                                                                                                                                                                                             |                  | rectangular                                                                   |
| Dimensions                                                                                                                                                                                                          | [mm]             | 75 x 27 x 62                                                                  |
| Materials                                                                                                                                                                                                           |                  | PA; PBT                                                                       |
| 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                                                                  |
| Electrical connection                                                                                                                                                                                               |                  |                                                                               |
| Required protection                                                                                                                                                                                                 |                  | miniature fuse to IEC60127-2 sheet 1; ≤ 5 A; fast acting                      |
| Remarks                                                                                                                                                                                                             |                  |                                                                               |
| Remarks                                                                                                                                                                                                             |                  | Recommendation: Check the safe functioning of the unit after a short circuit. |
| Pack quantity                                                                                                                                                                                                       |                  | 1 pcs.                                                                        |
| Electrical connection                                                                                                                                                                                               |                  |                                                                               |
| terminals: ...1.5 mm <sup>2</sup> ; Cable sheath: Ø 4.5...10 mm; Cable gland: M16 X 1.5                                                                                                                             |                  |                                                                               |
| Connection                                                                                                                                                                                                          |                  |                                                                               |
| <p>The diagram shows a rectangular block with four terminals labeled 1, 2, 3, and 4. Terminal 1 is connected to L1. Terminal 2 is connected to L+. Terminal 3 is connected to N. Terminal 4 is connected to L-.</p> |                  |                                                                               |
| Note : miniature fuse to IEC60127-2 sheet 1 ≤ 5 A fast acting                                                                                                                                                       |                  |                                                                               |



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### Diagrams and graphs

excess gain graph

