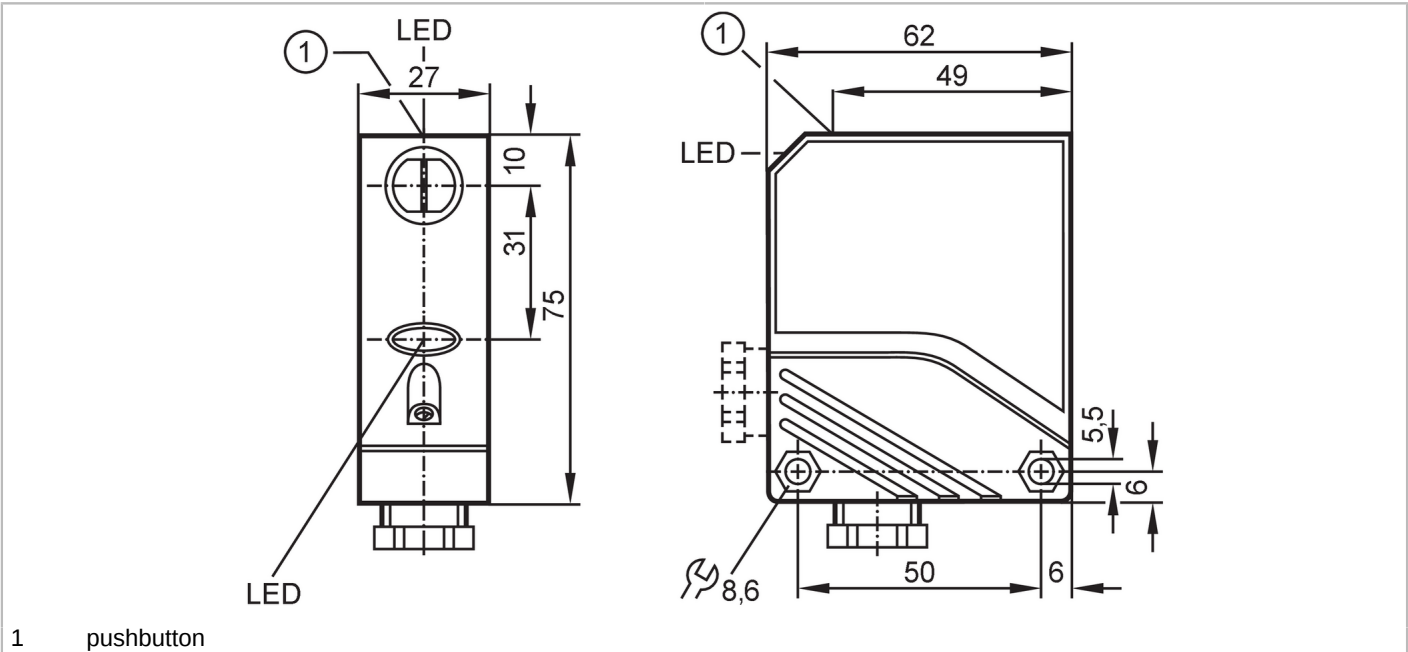




Diffuse reflection sensor

OLT-FKOA



| Product characteristics     |      |                                                     |
|-----------------------------|------|-----------------------------------------------------|
| Type of light               |      | Infrared light                                      |
| Housing                     |      | rectangular                                         |
| Application                 |      |                                                     |
| Function principle          |      | Diffuse reflection sensor                           |
| Application                 |      | Industrial applications                             |
| 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                                                  |
| Monitoring range            |      |                                                     |
| Range                       | [mm] | 1...1000; (white paper 200 x 200 mm 90 % remission) |
| Range adjustable            |      | yes                                                 |



Diffuse reflection sensor

OLT-FKOA

|                                |      |                  |
|--------------------------------|------|------------------|
| Max. light spot diameter       | [mm] | 300              |
| Light spot dimensions refer to |      | at maximum range |

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]  | 171             |
| Housing        |      | rectangular     |
| Dimensions     | [mm] | 75 x 27 x 62    |
| Material       |      | PA; PBT         |
| Lens material  |      | front lens:PMMA |
| Lens alignment |      | Side sensing    |

Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | Switching status | 1 x LED, yellow |
|         | Power            | 1 x LED, green  |
|         | Function         | 1 x LED, red    |

Electrical connection

|                     |                                                          |
|---------------------|----------------------------------------------------------|
| Required protection | miniature fuse to IEC60127-2 sheet 1; ≤ 5 A; fast acting |
|---------------------|----------------------------------------------------------|

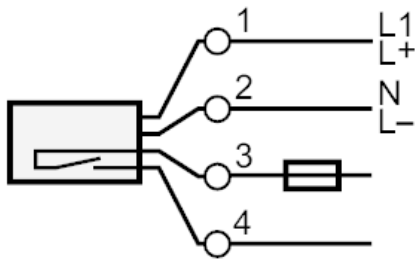
Remarks

|               |                                                                             |
|---------------|-----------------------------------------------------------------------------|
| Remarks       | Recommendation: check the unit for reliable function after a short circuit. |
| Pack quantity | 1 pcs.                                                                      |

Electrical connection

terminals: ...1.5 mm²; 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



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Diagrams and graphs

excess gain graph

