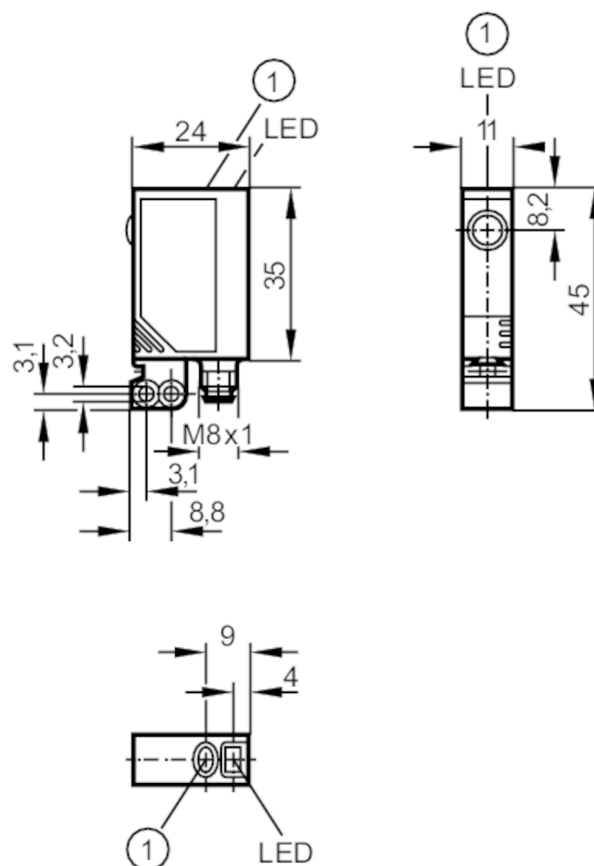




## Retro-reflective LASER sensor

OJPLFPKG/SO/AS



1 pushbutton



## Product characteristics

|                        |              |
|------------------------|--------------|
| Type of light          | red light    |
| Laser protection class | 1            |
| Housing                | rectangular  |
| Dimensions [mm]        | 35 x 11 x 24 |

## Application

|                    |                         |
|--------------------|-------------------------|
| System             | polarization filter     |
| Function principle | Retro-reflective sensor |

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | < 15       |
| Protection class            | III        |
| Reverse polarity protection | yes        |
| Type of light               | red light  |
| Wave length [nm]            | 650        |
| Typ. lifetime [h]           | 50000      |



## Retro-reflective LASER sensor

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| Outputs                                              |                                                                         |                                                                                                   |
|------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Electrical design                                    | PNP                                                                     |                                                                                                   |
| 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] | 200                                                                     |                                                                                                   |
| Switching frequency DC [Hz]                          | 2000                                                                    |                                                                                                   |
| Short-circuit protection                             | yes                                                                     |                                                                                                   |
| Type of short-circuit protection                     | yes (non-latching)                                                      |                                                                                                   |
| Overload protection                                  | yes                                                                     |                                                                                                   |
| Monitoring range                                     |                                                                         |                                                                                                   |
| Range referred to prismatic reflector [m]            | 8; (Prismatic reflector 50 x 50 mm E20722)                              |                                                                                                   |
| Range adjustable                                     | yes                                                                     |                                                                                                   |
| Diameter of the smallest detectable object [mm]      | 2.5; (0,1 m; 2,5 m: 4; 5 m: 8)                                          |                                                                                                   |
| Max. light spot diameter [mm]                        | 12                                                                      |                                                                                                   |
| Light spot dimensions refer to                       | at maximum range                                                        |                                                                                                   |
| Polarization filter available                        | yes                                                                     |                                                                                                   |
| Operating conditions                                 |                                                                         |                                                                                                   |
| Ambient temperature [°C]                             | -10...60                                                                |                                                                                                   |
| Protection                                           | IP 67                                                                   |                                                                                                   |
| Tests / approvals                                    |                                                                         |                                                                                                   |
| EMC                                                  | EN 60947-5-2                                                            |                                                                                                   |
| Laser protection class                               | 1                                                                       |                                                                                                   |
| Notes on laser protection                            | Caution:                                                                | Laser light                                                                                       |
|                                                      | laser class:                                                            | 1                                                                                                 |
|                                                      |                                                                         | EN / IEC60825-1:2007                                                                              |
|                                                      |                                                                         | EN / IEC60825-1:2014                                                                              |
|                                                      |                                                                         | Complies with 21 CFR 1040 except for deviations pursuant to Laser Notice No. 50, dated June 2007. |
| MTTF [years]                                         | 697                                                                     |                                                                                                   |
| Mechanical data                                      |                                                                         |                                                                                                   |
| Weight [g]                                           | 43.1                                                                    |                                                                                                   |
| Housing                                              | rectangular                                                             |                                                                                                   |
| Dimensions [mm]                                      | 35 x 11 x 24                                                            |                                                                                                   |
| Material                                             | housing: ABS; fixture: diecast zinc; LED window: SEPS; pushbutton: SEPS |                                                                                                   |
| Lens material                                        | glass                                                                   |                                                                                                   |
| Lens alignment                                       | Side sensing                                                            |                                                                                                   |
| Displays / operating elements                        |                                                                         |                                                                                                   |
| Display                                              | Switching status                                                        | 1 x LED, yellow                                                                                   |
|                                                      | Power                                                                   | 1 x LED, green                                                                                    |
|                                                      | Function                                                                | 1 x LED, red                                                                                      |
| Electronic lock                                      | yes                                                                     |                                                                                                   |



Retro-reflective LASER sensor

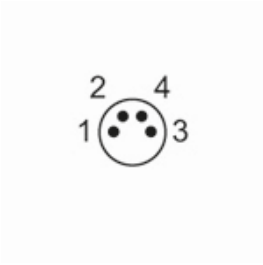
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| Accessories            |                         |
|------------------------|-------------------------|
| Accessories (supplied) | Basic clip: 1 x, E20964 |
|                        | screws: 2 x x M3 x 16   |
|                        | spring washers: 2 x     |
|                        | Nuts: 2 x               |

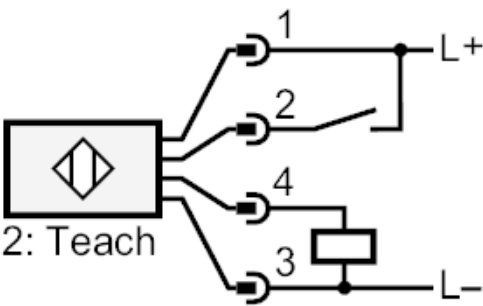
| Remarks       |                                 |
|---------------|---------------------------------|
| Remarks       | cULus - Class 2 source required |
| Pack quantity | 1 pcs.                          |

Electrical connection

Connector: 1 x M8



Connection



2 Teach



## Retro-reflective LASER sensor

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### Diagrams and graphs

excess gain graph

