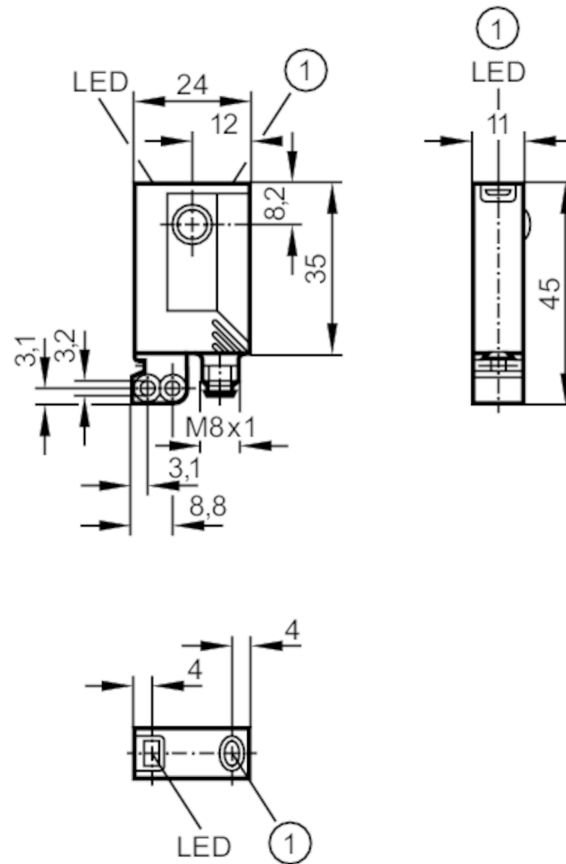




## Retro-reflective laser sensor

OJPLFPKG/FO/AS



1 pushbutton



### Product characteristics

|                        |             |
|------------------------|-------------|
| Type of light          | red light   |
| Laser protection class | 1           |
| Housing                | rectangular |

### Application

|                    |                         |
|--------------------|-------------------------|
| Special feature    | polarisation 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                |                  | pulsed  |
| Overload protection                             |                  | yes   |
| Detection zone                                  |                  |   |
| 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  |
| Polarisation 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]          | 706   |
| Mechanical data                                 |                  |   |
| Weight  | [g]              | 28  |
| Housing   |                  | rectangular   |
| Dimensions                                      | [mm]             | 35 x 24 x 11  |
| Materials                                       |                  | housing: ABS; fixture: diecast zinc; LED window: SEPS; pushbutton: SEPS                           |
| Lens material                                   |                  | glass   |
| Lens alignment                                  |                  | front lens  |
| Displays / operating elements                   |                  |   |
| Display   | switching status | 1 x LED, yellow   |
|   | operation        | 1 x LED, green  |
|   | function         | 1 x LED, red  |
| Electronic lock                                 |                  | yes   |

# OJ5014



## Retro-reflective laser sensor

OJPLFPKG/FO/AS

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

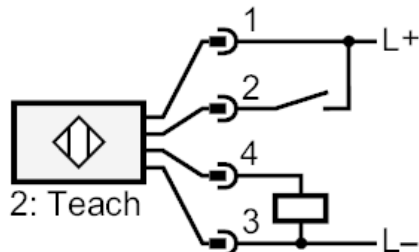
| Remarks       |   |
|---------------|---|
| Remarks       | operating voltage "supply class 2" according to cULus |
| Pack quantity | 1 pcs.  |

### Electrical connection

Connector: 1 x M8; coding: A



### Connection



2 Teach

# OJ5014



## Retro-reflective laser sensor

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### Diagrams and graphs

excess gain graph

