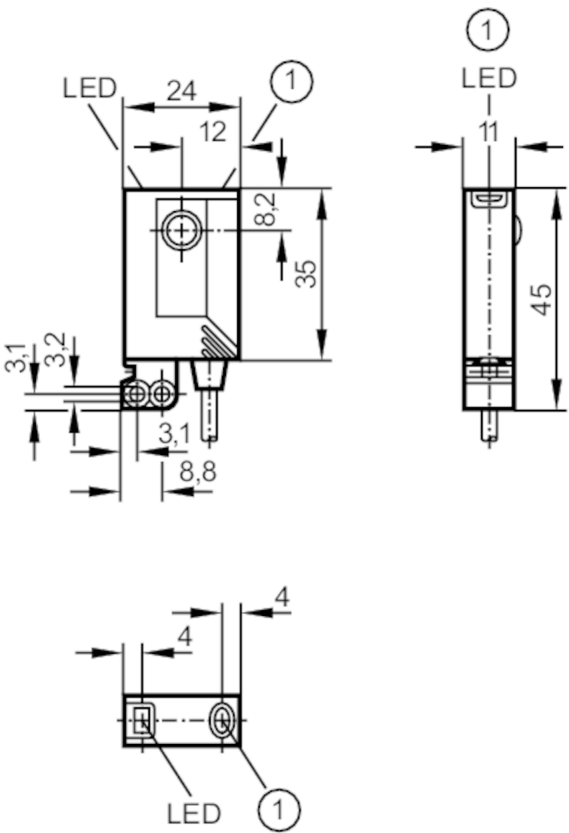




Retro-reflective sensor

OJP-FPKG/FO



1 Pushbutton without function



| Product characteristics               |      |                                       |
|---------------------------------------|------|---------------------------------------|
| Type of light                         |      | red light                             |
| Housing                               |      | rectangular                           |
| Application                           |      |                                       |
| System                                |      | polarization filter                   |
| Function principle                    |      | Retro-reflective sensor               |
| Electrical data                       |      |                                       |
| Operating voltage                     | [V]  | 10...30 DC                            |
| Current consumption                   | [mA] | < 22                                  |
| Protection class                      |      | III                                   |
| Reverse polarity protection           |      | yes                                   |
| Type of light                         |      | red light                             |
| Wave length                           | [nm] | 660                                   |
| Outputs                               |      |                                       |
| Electrical design                     |      | PNP                                   |
| Output function                       |      | light-on/dark-on mode; (programmable) |
| Max. voltage drop switching output DC | [V]  | 2.5                                   |



## Retro-reflective sensor

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|                                                 |      |                    |
|-------------------------------------------------|------|--------------------|
| 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]  | 0...2; (Prismatic reflector Ø 80 E20005) |
| Range adjustable                      |      | yes                                      |
| Max. light spot diameter              | [mm] | 64                                       |
| Light spot dimensions refer to        |      | at maximum range                         |
| Polarization filter available         |      | yes                                      |

## Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...60 |
| Protection          |      | IP 67    |

## Tests / approvals

|      |         |              |
|------|---------|--------------|
| EMC  |         | EN 60947-5-2 |
| MTTF | [years] | 867          |

## Mechanical data

|                |      |                                                                         |
|----------------|------|-------------------------------------------------------------------------|
| Weight         | [g]  | 73                                                                      |
| Housing        |      | rectangular                                                             |
| Dimensions     | [mm] | 35 x 24 x 11                                                            |
| Material       |      | housing: ABS; fixture: diecast zinc; LED window: SEPS; pushbutton: SEPS |
| Lens material  |      | glass                                                                   |
| Lens alignment |      | Front sensing                                                           |

## Displays / operating elements

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

## Accessories

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

## Remarks

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



## Retro-reflective sensor

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### Electrical connection

Cable: 2 m, PVC; 4 x 0.14 mm<sup>2</sup>

### Connection



|      |               |
|------|---------------|
|      | Core colors : |
| BK = | black         |
| BN = | brown         |
| BU = | blue          |
| WH = | white         |

### Diagrams and graphs

excess gain graph

