



Retro-reflective sensor

OJP-FPKG/SO/AS



1 pushbutton



| Application                 |      |                         |
|-----------------------------|------|-------------------------|
| 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                     |



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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]            | 0...2; (Prismatic reflector Ø 80 E20005)              |                 |
| Range adjustable                                     | yes                                                   |                 |
| Max. light spot diameter [mm]                        | 64                                                    |                 |
| Light spot dimensions refer to                       | at maximum range                                      |                 |
| Polarisation filter available                        | yes                                                   |                 |
| Operating conditions                                 |                                                       |                 |
| Ambient temperature [°C]                             | -25...60                                              |                 |
| Protection                                           | IP 67                                                 |                 |
| Tests / approvals                                    |                                                       |                 |
| EMC                                                  | EN 60947-5-2                                          |                 |
| MTTF [years]                                         | 854                                                   |                 |
| Mechanical data                                      |                                                       |                 |
| Weight [g]                                           | 41.8                                                  |                 |
| Housing                                              | rectangular                                           |                 |
| Dimensions [mm]                                      | 35 x 11 x 24                                          |                 |
| Materials                                            | housing: ABS; LED window: SEPS; pushbutton: SEPS      |                 |
| Lens material                                        | glass                                                 |                 |
| Lens alignment                                       | side lens                                             |                 |
| Displays / operating elements                        |                                                       |                 |
| Display                                              | switching status                                      | 1 x LED, yellow |
|                                                      | operation                                             | 1 x LED, green  |
|                                                      | function                                              | 1 x LED, red    |
| Electronic lock                                      | yes                                                   |                 |
| Accessories                                          |                                                       |                 |
| Accessories (supplied)                               | screws: 2 x                                           |                 |
|                                                      | spring washers: 2 x                                   |                 |
|                                                      | Nuts: 2 x                                             |                 |
| Remarks                                              |                                                       |                 |
| Remarks                                              | operating voltage "supply class 2" according to cULus |                 |
| Pack quantity                                        | 1 pcs.                                                |                 |

## Retro-reflective sensor

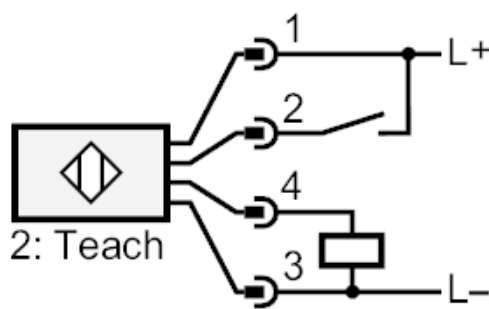
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### Electrical connection

Connector: 1 x M8



### Connection



2

Teach



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### Diagrams and graphs

excess gain graph

