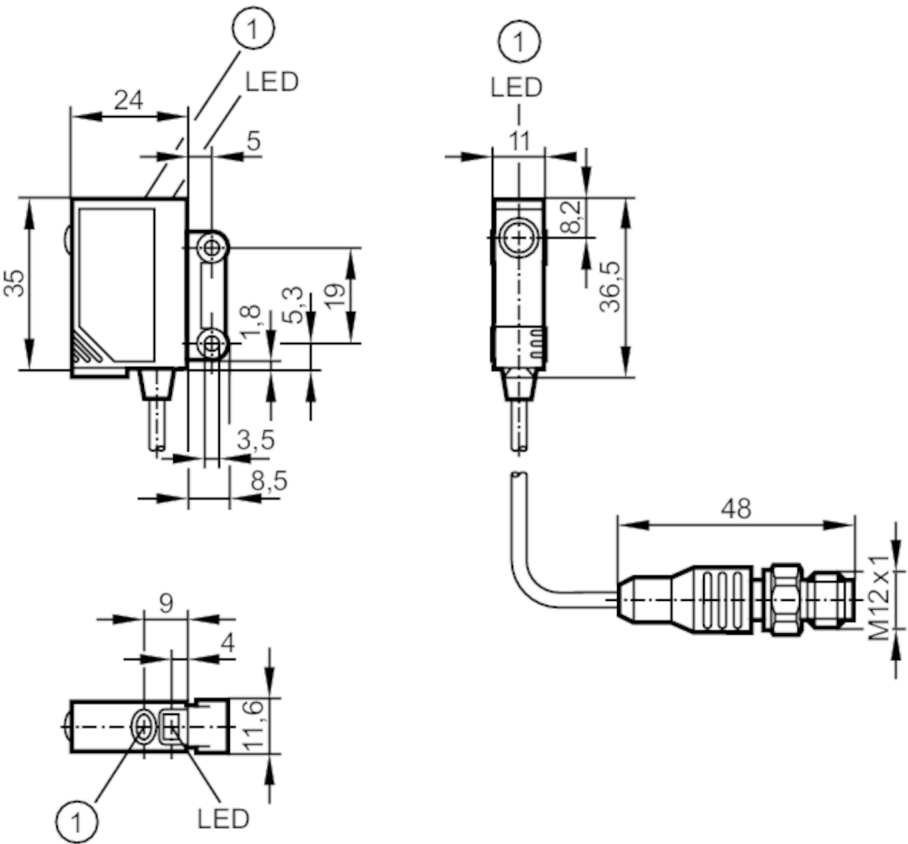




Retro-reflective sensor for the detection of transparent objects

OJPGFPKG/SO/0,15M/US



1 pushbutton



| Product characteristics               |      |                                       |
|---------------------------------------|------|---------------------------------------|
| Type of light                         |      | red light                             |
| Housing                               |      | rectangular                           |
| Application                           |      |                                       |
| Special feature                       |      | polarisation 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                                   |



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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                |      | pulsed |
| Overload protection                             |      | yes    |

### Detection zone

|                                       |      |                                                    |
|---------------------------------------|------|----------------------------------------------------|
| Range referred to prismatic reflector | [m]  | 0.2...1.5; (Prismatic reflector 50 x 50 mm E20722) |
| 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] | 0...60 |
| Protection          |      | IP 67  |

### Tests / approvals

|      |         |              |
|------|---------|--------------|
| EMC  |         | EN 60947-5-2 |
| MTTF | [years] | 854          |

### Mechanical data

|                |      |                                                  |
|----------------|------|--------------------------------------------------|
| Weight         | [g]  | 40.8                                             |
| 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    |

### Accessories

|                |                   |
|----------------|-------------------|
| Items supplied | screws: 2         |
|                | spring washers: 2 |
|                | Nuts: 2           |

### Remarks

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

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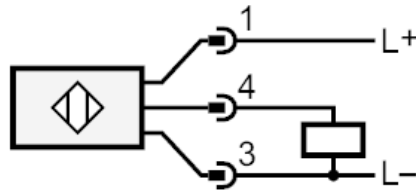
### Electrical connection

Cable: 0.15 m, PVC

Connector: 1 x M12; coding: A



### Connection





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### Diagrams and graphs

excess gain graph

