



Through-beam laser sensor receiver

OJELFPKG/SO/AS



1 pushbutton



| Product characteristics     |                     |
|-----------------------------|---------------------|
| Type of light               | red light           |
| Laser protection class      | 1                   |
| Housing                     | rectangular         |
| Application                 |                     |
| Function principle          | Through-beam sensor |
| Electrical data             |                     |
| Operating voltage [V]       | 10...30 DC          |
| Current consumption [mA]    | < 12                |
| Protection class            | III                 |
| Reverse polarity protection | yes                 |
| Type of light               | red light           |
| Wave length [nm]            | 650                 |
| Typ. lifetime [h]           | 50000               |
| Outputs                     |                     |
| Electrical design           | PNP                 |



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|                                                      |                                                                         |                                                                                                   |
|------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 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]                          | 1200                                                                    |                                                                                                   |
| Short-circuit protection                             | yes                                                                     |                                                                                                   |
| Type of short-circuit protection                     | pulsed                                                                  |                                                                                                   |
| Overload protection                                  | yes                                                                     |                                                                                                   |
| Detection zone                                       |                                                                         |                                                                                                   |
| Transmitter / receiver                               | receiver                                                                |                                                                                                   |
| Range [m]                                            | < 1                                                                     |                                                                                                   |
| Range adjustable                                     | yes                                                                     |                                                                                                   |
| Diameter of the smallest detectable object [mm]      | 0.8                                                                     |                                                                                                   |
| 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]                                         | 952                                                                     |                                                                                                   |
| Mechanical data                                      |                                                                         |                                                                                                   |
| Weight [g]                                           | 26.8                                                                    |                                                                                                   |
| Housing                                              | rectangular                                                             |                                                                                                   |
| Dimensions [mm]                                      | 35 x 11 x 24                                                            |                                                                                                   |
| Materials                                            | housing: ABS; fixture: diecast zinc; 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                                          |                                                                         |                                                                                                   |
| Items supplied                                       | Basic clip: 1, E20964                                                   |                                                                                                   |
|                                                      | screws: 2 x M3 x 16                                                     |                                                                                                   |
|                                                      | spring washers: 2                                                       |                                                                                                   |
|                                                      | Nuts: 2                                                                 |                                                                                                   |

# OJ5042



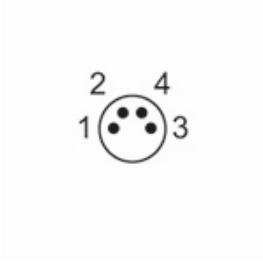
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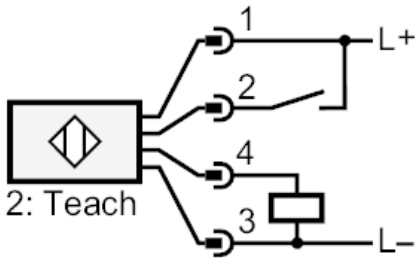
| Remarks       |                                                       |
|---------------|-------------------------------------------------------|
| Remarks       | operating voltage "supply class 2" according to cULus |
| Pack quantity | 1 pcs.                                                |

### Electrical connection

Connector: 1 x M8; coding: A



### Connection



2 Teach