



Through-beam laser sensor receiver

OJELFPKG/SO/AS



1 pushbutton



| Product characteristics               |      |                                       |
|---------------------------------------|------|---------------------------------------|
| Type of light                         |      | red light                             |
| 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                                   |
| 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]             | 1200                                             |
| Short-circuit protection                        |                  | yes                                              |
| Type of short-circuit protection                |                  | yes (non-latching)                               |
| Overload protection                             |                  | yes                                              |
| <b>Monitoring range</b>                         |                  |                                                  |
| Transmitter / receiver                          |                  | receiver                                         |
| Range                                           | [m]              | < 15                                             |
| Range adjustable                                |                  | yes                                              |
| Diameter of the smallest detectable object      | [mm]             | 2                                                |
| <b>Operating conditions</b>                     |                  |                                                  |
| Ambient temperature                             | [°C]             | -10...60                                         |
| Protection                                      |                  | IP 67                                            |
| <b>Tests / approvals</b>                        |                  |                                                  |
| EMC                                             |                  | EN 60947-5-2                                     |
| MTTF                                            | [years]          | 952                                              |
| <b>Mechanical data</b>                          |                  |                                                  |
| Weight                                          | [g]              | 27.25                                            |
| Housing                                         |                  | rectangular                                      |
| Dimensions                                      | [mm]             | 35 x 11 x 24                                     |
| Material                                        |                  | housing: ABS; LED window: SEPS; pushbutton: SEPS |
| Lens material                                   |                  | glass                                            |
| Lens alignment                                  |                  | Side sensing                                     |
| <b>Displays / operating elements</b>            |                  |                                                  |
| Display                                         | Switching status | 1 x LED, yellow                                  |
|                                                 | Power            | 1 x LED, green                                   |
|                                                 | Function         | 1 x LED, red                                     |
| Electronic lock                                 |                  | yes                                              |
| <b>Accessories</b>                              |                  |                                                  |
| Items supplied                                  |                  | screws: 2                                        |
|                                                 |                  | spring washers: 2                                |
|                                                 |                  | Nuts: 2                                          |
| <b>Remarks</b>                                  |                  |                                                  |
| Remarks                                         |                  | cULus - Class 2 source required                  |
| Pack quantity                                   |                  | 1 pcs.                                           |

# OJ5139



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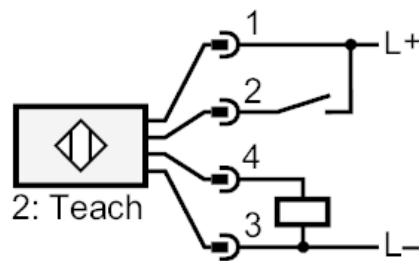
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### Electrical connection

Connector: 1 x M8; coding: A



### Connection



2 Teach

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### Diagrams and graphs

excess gain graph

