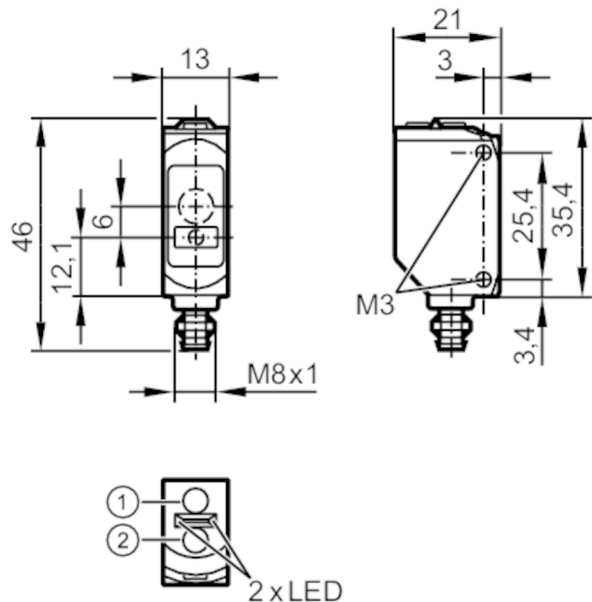


# O6P702



## Retro-reflective sensor

O6PLFPKG/AS/4P



- 1    Programming buttons  
Receiver in upper lens , transmitter in lower lens



### Product characteristics

|                        |             |
|------------------------|-------------|
| Type of light          | red light   |
| Laser protection class | 1           |
| Housing                | rectangular |

### Application

|                    |                         |
|--------------------|-------------------------|
| Function principle | Retro-reflective sensor |
|--------------------|-------------------------|

### Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...30 DC |
| Current consumption         | [mA] | 15; (24 V) |
| Protection class            |      | III        |
| Reverse polarity protection |      | yes        |
| Type of light               |      | red light  |
| Wave length                 | [nm] | 650        |

### Outputs

|                                                 |      |                                     |
|-------------------------------------------------|------|-------------------------------------|
| Electrical design                               |      | PNP                                 |
| Output function                                 |      | light-on/dark-on mode; (selectable) |
| Max. voltage drop switching output DC           | [V]  | 2.5                                 |
| Permanent current rating of switching output DC | [mA] | 100                                 |
| Switching frequency DC                          | [Hz] | 1000                                |
| Type of short-circuit protection                |      | yes (non-latching)                  |



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| Monitoring range                |                                                                             |                                                                                                                                     |
|---------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Range                           | [m]                                                                         | 0.075...8; (Prismatic reflector 50 x 50 mm E20722)                                                                                  |
| Max. light spot diameter        | [mm]                                                                        | 17                                                                                                                                  |
| Light spot dimensions refer to  |                                                                             | at maximum range                                                                                                                    |
| Interfaces                      |                                                                             |                                                                                                                                     |
| Communication interface         | IO-Link                                                                     |                                                                                                                                     |
| Transmission type               | COM2 (38,4 kBaud)                                                           |                                                                                                                                     |
| IO-Link revision                | 1.1                                                                         |                                                                                                                                     |
| SDCI standard                   | IEC 61131-9                                                                 |                                                                                                                                     |
| Profiles                        | Smart Sensor - SSP 0                                                        | Generic Profiled Sensor                                                                                                             |
|                                 | Function                                                                    | Device identification                                                                                                               |
|                                 | Function                                                                    | Multiple switching signal                                                                                                           |
|                                 | Function                                                                    | Device diagnosis                                                                                                                    |
|                                 | Function                                                                    | Teach channel                                                                                                                       |
| SIO mode                        | yes                                                                         |                                                                                                                                     |
| Required master port class      | A                                                                           |                                                                                                                                     |
| Min. process cycle time         | [ms]                                                                        | 2.5                                                                                                                                 |
| IO-Link process data (cyclical) | Function                                                                    | bit length                                                                                                                          |
|                                 | process value                                                               | 8                                                                                                                                   |
|                                 | device status                                                               | 4                                                                                                                                   |
|                                 | binary switching information                                                | 1                                                                                                                                   |
| IO-Link functions (acyclical)   | application specific tag; operating hours counter; switching cycles counter |                                                                                                                                     |
| Supported DeviceIDs             | Type of operation                                                           | DeviceID                                                                                                                            |
|                                 | default                                                                     | 525                                                                                                                                 |
| Operating conditions            |                                                                             |                                                                                                                                     |
| Ambient temperature             | [°C]                                                                        | -10...60                                                                                                                            |
| Protection                      | IP 65; 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 1040.10 except for conformance with IEC 60825-1 Ed. 3, as described in Laser Notice No. 56, dated May 8, 2019. |
| MTTF                            | [years]                                                                     | 636                                                                                                                                 |
| UL approval                     | Ta                                                                          | -25...40 °C                                                                                                                         |
|                                 | Enclosure type                                                              | Type 1                                                                                                                              |
|                                 | voltage supply                                                              | Class 2                                                                                                                             |
| Mechanical data                 |                                                                             |                                                                                                                                     |
| Weight                          | [g]                                                                         | 19.3                                                                                                                                |
| Housing                         | rectangular                                                                 |                                                                                                                                     |
| Dimensions                      | [mm]                                                                        | 46 x 13 x 21                                                                                                                        |

O6P702



Retro-reflective sensor

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|                        |                                   |
|------------------------|-----------------------------------|
| Material               | housing: ABS; PPSU; sealing: EPDM |
| Lens material          | PMMA                              |
| Lens alignment         | Side sensing                      |
| Tightening torque [Nm] | 0.5; (screws)                     |

Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | Switching status | 1 x LED, yellow |
|         | Power            | 1 x LED, green  |

Remarks

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

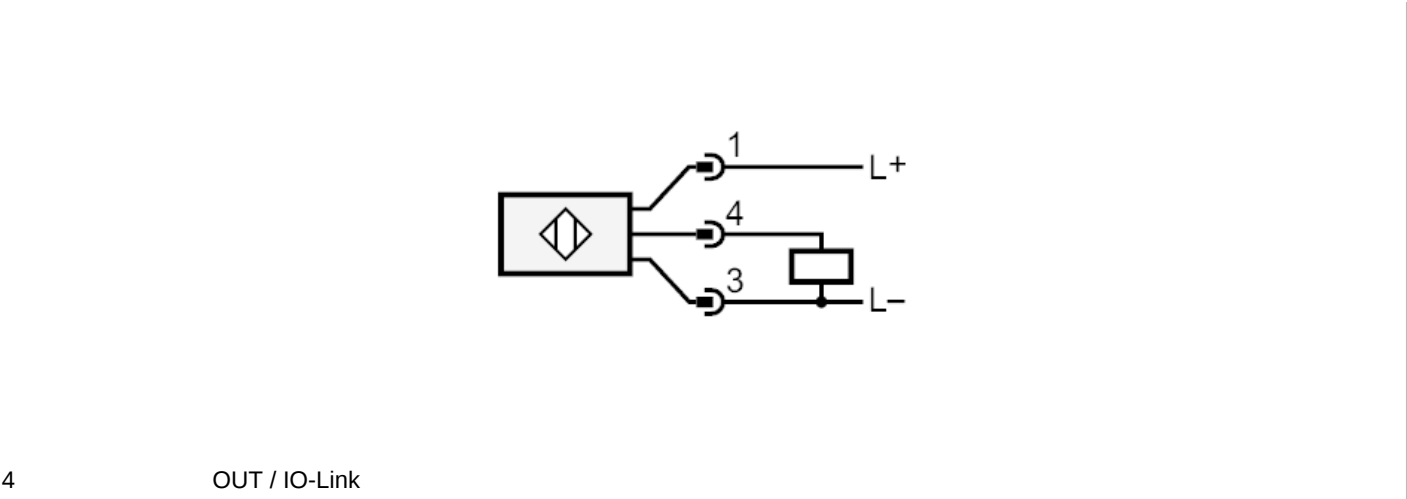
Electrical connection

Connector: 1 x M8

Electrical connection - plug



Connection



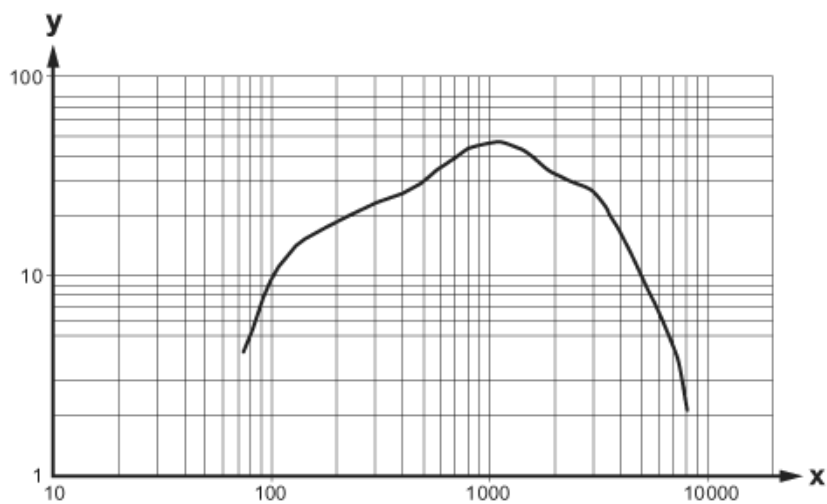
4 OUT / IO-Link



## Retro-reflective sensor

O6PLFPKG/AS/4P

### Diagrams and graphs



x: Abstand [mm]

y: Funktionsreservefaktor