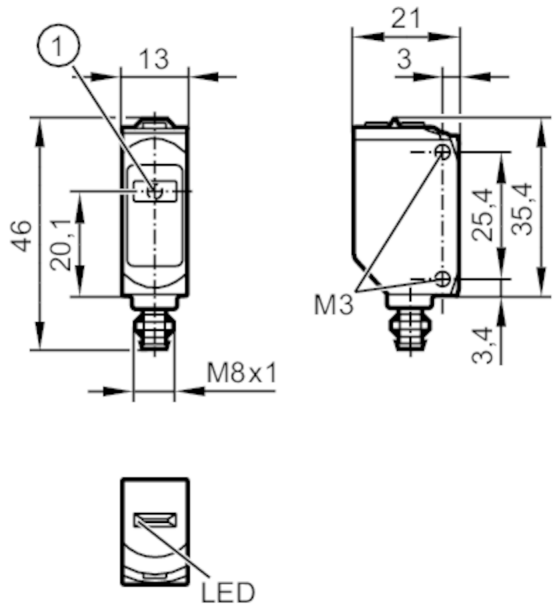


# O6S702



## Through-beam sensor transmitter

O6SLOOKG/AS/4P



1 Sensing surface



### 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] | 10; ((24 V)) |
| Protection class    |      | III          |
| Type of light       |      | red light    |
| Wave length         | [nm] | 650          |

### Monitoring range

|                                            |      |                  |
|--------------------------------------------|------|------------------|
| Transmitter / receiver                     |      | transmitter      |
| Range                                      | [m]  | < 15             |
| Diameter of the smallest detectable object | [mm] | 7; (15 m)        |
| Max. light spot diameter                   | [mm] | 35               |
| 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       |



## Through-beam sensor transmitter

O6SLOOKG/AS/4P

|                                      |                          |                                                                                                                                     |
|--------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Profiles                             | Smart Sensor - SSP 0     | Generic Profiled Sensor                                                                                                             |
|                                      | Function                 | Device identification                                                                                                               |
|                                      | Function                 | Device diagnosis                                                                                                                    |
| SIO mode                             |                          | yes                                                                                                                                 |
| Required master port class           |                          | A                                                                                                                                   |
| Min. process cycle time [ms]         |                          | 2.5                                                                                                                                 |
| IO-Link process data (cyclical)      | <b>Function</b>          | <b>bit length</b>                                                                                                                   |
|                                      | process value            | 8                                                                                                                                   |
|                                      | device status            | 4                                                                                                                                   |
| IO-Link functions (acyclical)        |                          | application specific tag; operating hours counter; switching cycles counter                                                         |
| Supported DeviceIDs                  | <b>Type of operation</b> | <b>DeviceID</b>                                                                                                                     |
|                                      | default                  | 523                                                                                                                                 |
| <b>Operating conditions</b>          |                          |                                                                                                                                     |
| Ambient temperature [°C]             |                          | -10...60                                                                                                                            |
| Protection                           |                          | IP 65; IP 67                                                                                                                        |
| <b>Tests / approvals</b>             |                          |                                                                                                                                     |
| 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]                         |                          | 697                                                                                                                                 |
| UL approval                          | Ta                       | -25...40 °C                                                                                                                         |
|                                      | Enclosure type           | Type 1                                                                                                                              |
|                                      | voltage supply           | Class 2                                                                                                                             |
| <b>Mechanical data</b>               |                          |                                                                                                                                     |
| Weight [g]                           |                          | 18.4                                                                                                                                |
| Housing                              |                          | rectangular                                                                                                                         |
| Dimensions [mm]                      |                          | 35.4 x 13 x 21                                                                                                                      |
| Material                             |                          | housing: ABS; PPSU; sealing: EPDM                                                                                                   |
| Lens material                        |                          | PMMA                                                                                                                                |
| Lens alignment                       |                          | Side sensing                                                                                                                        |
| Tightening torque [Nm]               |                          | 0.5                                                                                                                                 |
| <b>Displays / operating elements</b> |                          |                                                                                                                                     |
| Display                              | Power                    | 1 x LED, green                                                                                                                      |
| <b>Remarks</b>                       |                          |                                                                                                                                     |
| Remarks                              |                          | cULus - Class 2 source required                                                                                                     |
| Pack quantity                        |                          | 1 pcs.                                                                                                                              |

## Through-beam sensor transmitter

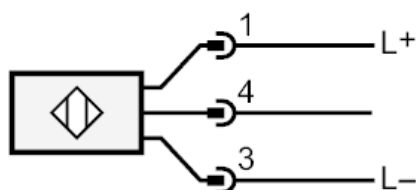
O6SLOOKG/AS/4P

### Electrical connection - plug

Connector: 1 x M8; coding: A

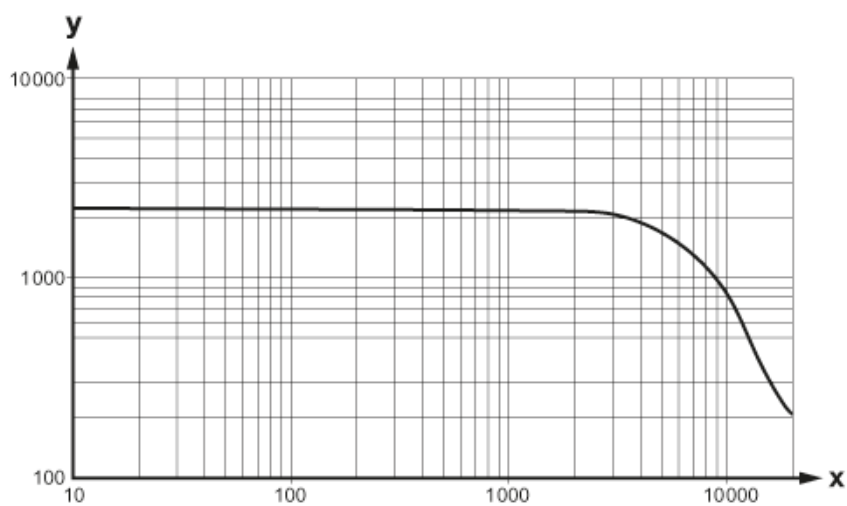


### Connection



4 IO-Link

### Diagrams and graphs



x: Abstand [mm]

y: Funktionsreservefaktor