



Through-beam sensor receiver

O6E-FPKG/AS/4P



- 1: output function switch  
2: potentiometer sensitivity  
3: Light incidence



| 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] | 7; ((24 V))                         |
| Protection class                                |      | III                                 |
| Reverse polarity protection                     |      | yes                                 |
| Type of light                                   |      | red light                           |
| Wave length                                     | [nm] | 633                                 |
| 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                                |
| Short-circuit protection                        |      | yes                                 |
| Type of short-circuit protection                |      | yes (non-latching)                  |
| Monitoring range                                |      |                                     |
| Transmitter / receiver                          |      | receiver                            |



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|                  |     |      |
|------------------|-----|------|
| Range            | [m] | < 10 |
| Range adjustable |     | yes  |

## 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 |
| 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                         |
|                                 | binary switching information                                                | 1                         |
| IO-Link functions (acyclical)   | application specific tag; operating hours counter; switching cycles counter |                           |
| Supported DeviceIDs             | <b>Type of operation</b>                                                    | <b>DeviceID</b>           |
|                                 | default                                                                     | 421                       |

## Operating conditions

|                     |      |                             |
|---------------------|------|-----------------------------|
| Ambient temperature | [°C] | -25...80                    |
| Protection          |      | IP 65; IP 67; IP 68; IP 69K |

## Tests / approvals

|             |                    |             |
|-------------|--------------------|-------------|
| EMC         | EN 60947-5-2       |             |
| MTTF        | [years]            | 716         |
| UL approval | Ta                 | -25...40 °C |
|             | Enclosure type     | Type 1      |
|             | voltage supply     | Class 2     |
|             | UL approval number | E010        |

## Mechanical data

|                   |      |                                                                         |
|-------------------|------|-------------------------------------------------------------------------|
| Weight            | [g]  | 34.1                                                                    |
| Housing           |      | rectangular                                                             |
| Dimensions        | [mm] | 34.8 x 13 x 21                                                          |
| Material          |      | housing: stainless steel (1.4404 / 316L); plastics: PPSU; sealing: EPDM |
| Lens material     |      | PMMA                                                                    |
| Lens alignment    |      | Side sensing                                                            |
| Tightening torque | [Nm] | 1; (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.                          |

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## Electrical connection

Connector: 1 x M8; coding: A



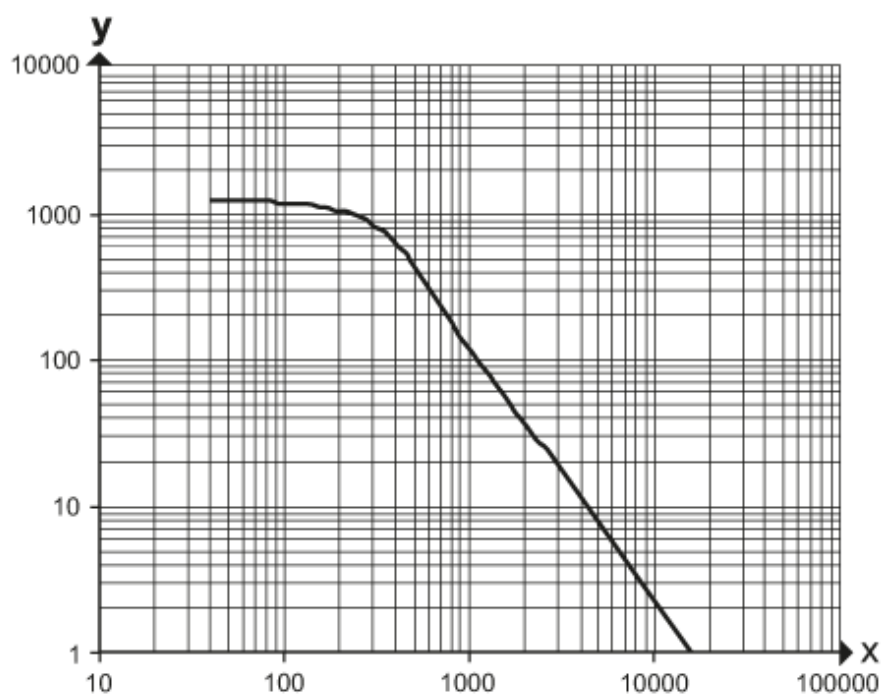
## Connection



4 OUT / IO-Link

## Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor