



Through-beam sensor receiver

O8E-FPKG/IO-Link/0,30M/AS/3P



1 receiver in upper lens  
illustration (example)



| 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] | 15; ((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; (programmable) |
| Max. voltage drop switching output DC | [V]  | 2.5                                   |



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|                                                 |      |        |
|-------------------------------------------------|------|--------|
| Permanent current rating of switching output DC | [mA] | 100    |
| Switching frequency DC                          | [Hz] | 1000   |
| Short-circuit protection                        |      | yes    |
| Type of short-circuit protection                |      | pulsed |

## Detection zone

|                        |     |          |
|------------------------|-----|----------|
| Transmitter / receiver |     | receiver |
| Range                  | [m] | < 3      |

## Interfaces

|                                 |                              |                                                                                         |
|---------------------------------|------------------------------|-----------------------------------------------------------------------------------------|
| Communication interface         |                              | IO-Link                                                                                 |
| Transmission type               |                              | COM2 (38,4 kBaud)                                                                       |
| IO-Link revision                |                              | 1.1                                                                                     |
| SDCI standard                   |                              | IEC 61131-9                                                                             |
| Profiles                        |                              | Smart Sensor: Device Identification; Device Diagnosis; Teach Channel; Switching Channel |
| SIO mode                        |                              | yes                                                                                     |
| Required master port type       |                              | 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                                                                                       |
|                                 | 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                      | 787                                                                                     |

## Operating conditions

|                     |      |              |
|---------------------|------|--------------|
| Ambient temperature | [°C] | -25...60     |
| Protection          |      | IP 65; IP 67 |

## Tests / approvals

|             |                 |                         |
|-------------|-----------------|-------------------------|
| EMC         |                 | EN 60947-5-2            |
| MTTF        | [years]         | 1152                    |
| UL approval | Ta              | -25...60 °C             |
|             | Enclosure type  | Type 1                  |
|             | power supply    | Limited Voltage/Current |
|             | UL Approval no. | E017                    |
|             | File number UL  | E174191                 |

## Mechanical data

|                |      |                                             |
|----------------|------|---------------------------------------------|
| Weight         | [g]  | 21                                          |
| Housing        |      | rectangular                                 |
| Dimensions     | [mm] | 28.1 x 8.1 x 14.4                           |
| Materials      |      | housing: ABS; stainless steel (316L/1.4404) |
| Lens material  |      | PMMA                                        |
| Lens alignment |      | side lens                                   |

## Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | switching status | 1 x LED, yellow |
|         | operation        | 1 x LED, green  |

# O8E202



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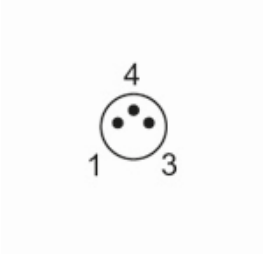
### Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

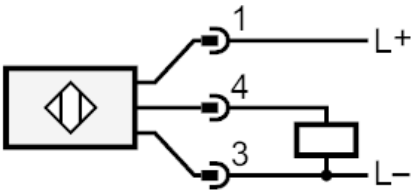
### Electrical connection

Cable: 0.3 m, PVC, black, Ø 2.9 mm; 3 x 0.08 mm<sup>2</sup>

Connector: 1 x M8; coding: A

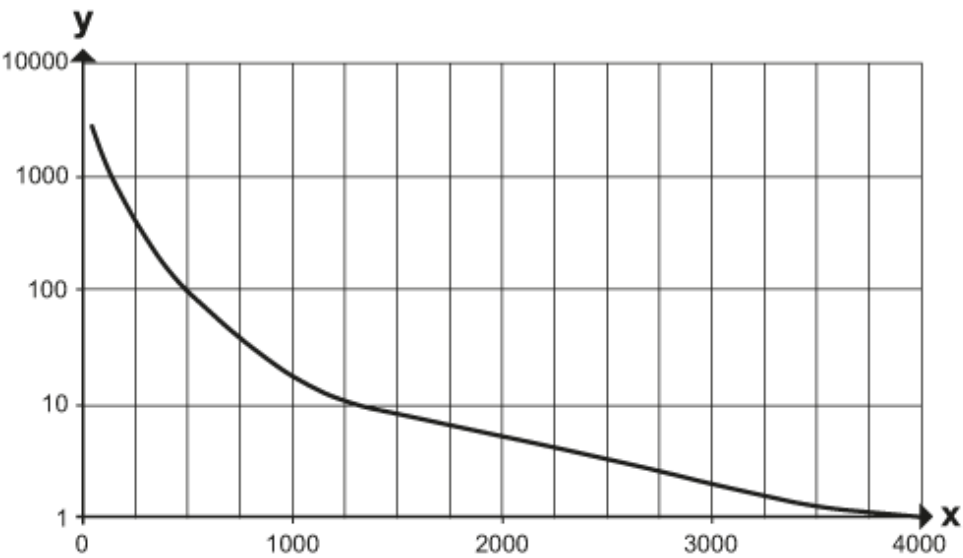


### Connection



### Diagrams and graphs

excess gain graph



x: distance [mm]  
y: excess gain factor