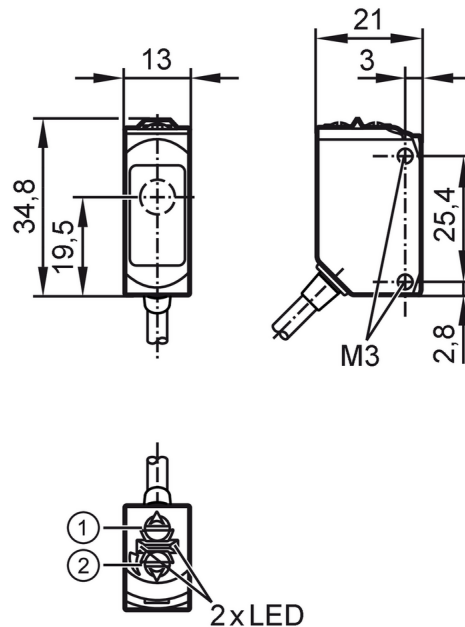


# O6E301



## Through-beam sensor receiver

O6E-FPKG/0,30m/US



- 1 output function switch
- 1 potentiometer sensitivity



### Product characteristics

|               |             |
|---------------|-------------|
| Type of light | red light   |
| Housing       | rectangular |

### Application

|                    |                            |
|--------------------|----------------------------|
| Function principle | Through-beam sensor        |
| Application        | food and beverage industry |

### 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)                  |

# O6E301



## Through-beam sensor receiver

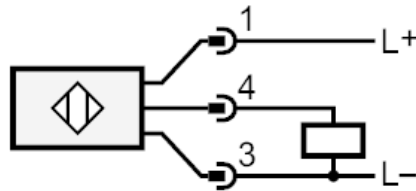
O6E-FPKG/0,30m/US

| Monitoring range                            |                    |                                                                         |
|---------------------------------------------|--------------------|-------------------------------------------------------------------------|
| Transmitter / receiver                      |                    | receiver                                                                |
| Range [m]                                   |                    | < 10                                                                    |
| Range adjustable                            |                    | yes                                                                     |
| 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]                                |                    | 1014                                                                    |
| UL approval                                 | Ta                 | -25...40 °C                                                             |
|                                             | Enclosure type     | Type 1                                                                  |
|                                             | voltage supply     | Class 2                                                                 |
|                                             | UL approval number | E006                                                                    |
| Mechanical data                             |                    |                                                                         |
| Weight [g]                                  |                    | 50.9                                                                    |
| Housing                                     |                    | rectangular                                                             |
| Dimensions [mm]                             |                    | 34.8 x 13 x 21                                                          |
| Material                                    |                    | housing: stainless steel (1.4404 / 316L); sealing: EPDM; plastics: PPSU |
| Lens material                               |                    | front lens: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.                                                                  |
| Electrical connection                       |                    |                                                                         |
| Cable: 0.3 m, PVC; 3 x 0.25 mm <sup>2</sup> |                    |                                                                         |
| Connector: 1 x M12; coding: A; Contacts: 4  |                    |                                                                         |
|                                             |                    |                                                                         |

## Through-beam sensor receiver

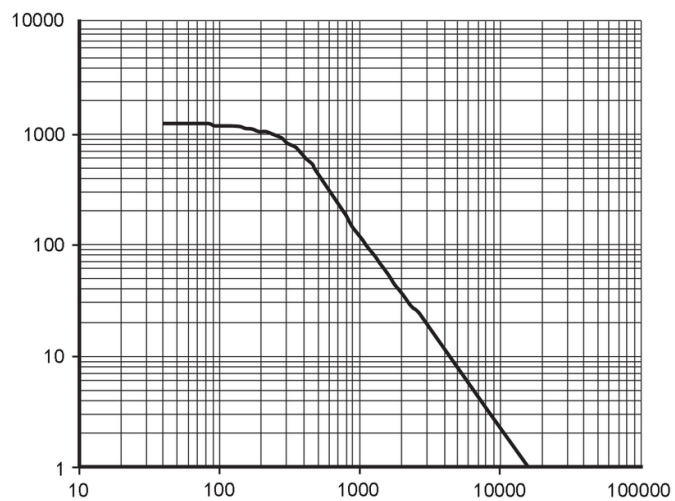
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### Connection



### Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor