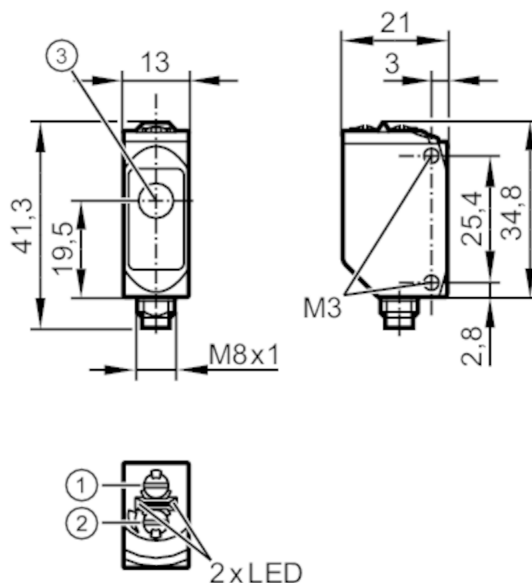




## Through-beam sensor receiver

O6E-FNKG/AS/4P



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



### 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                                    | NPN                                 |
| 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                     | pulsed                              |

### Detection zone

|                        |          |
|------------------------|----------|
| Transmitter / receiver | receiver |
| Range [m]              | < 10     |
| Range adjustable       | yes      |

# O6E307



## Through-beam sensor receiver

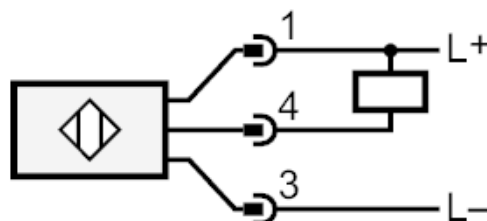
O6E-FNKG/AS/4P

| 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                   |                                                       | UL Approval no. E001                                                    |
| Mechanical data               |                                                       |                                                                         |
| Weight                        | [g]                                                   | 35.4                                                                    |
| Housing                       |                                                       | rectangular                                                             |
| Dimensions                    | [mm]                                                  | 34.8 x 13 x 21                                                          |
| Materials                     |                                                       | housing: stainless steel (1.4404 / 316L); plastics: PPSU; Sealing: EPDM |
| Lens material                 |                                                       | PMMA                                                                    |
| Lens alignment                |                                                       | side lens                                                               |
| Displays / operating elements |                                                       |                                                                         |
| Display                       | switching status                                      | 1 x LED, yellow                                                         |
|                               | operation                                             | 1 x LED, green                                                          |
| Remarks                       |                                                       |                                                                         |
| Remarks                       | operating voltage "supply class 2" according to cULus |                                                                         |
| Pack quantity                 | 1 pcs.                                                |                                                                         |
| Electrical connection         |                                                       |                                                                         |

Connector: 1 x M8



### Connection

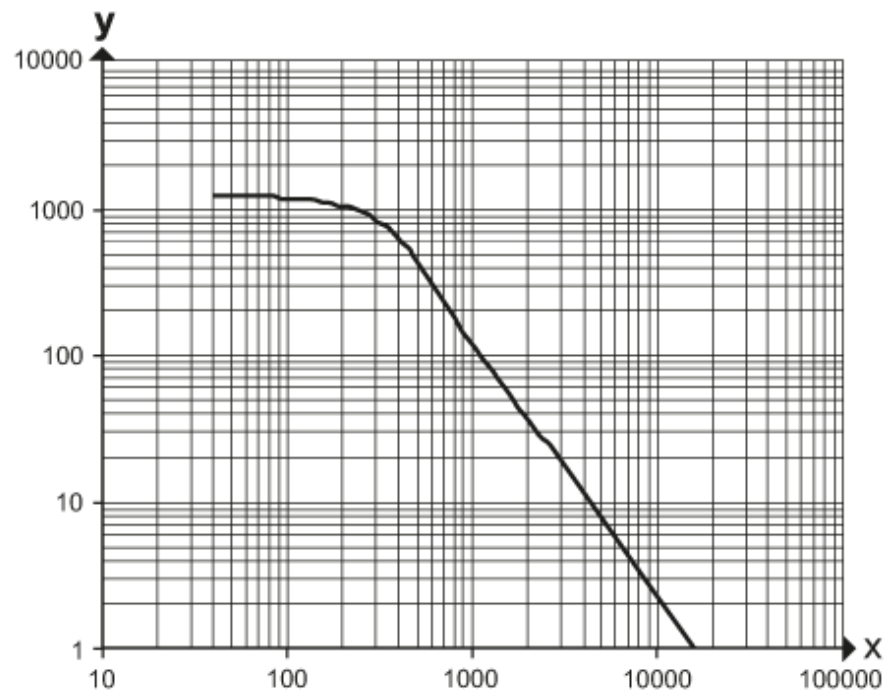


## Through-beam sensor receiver

O6E-FNKG/AS/4P

### Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservefaktor