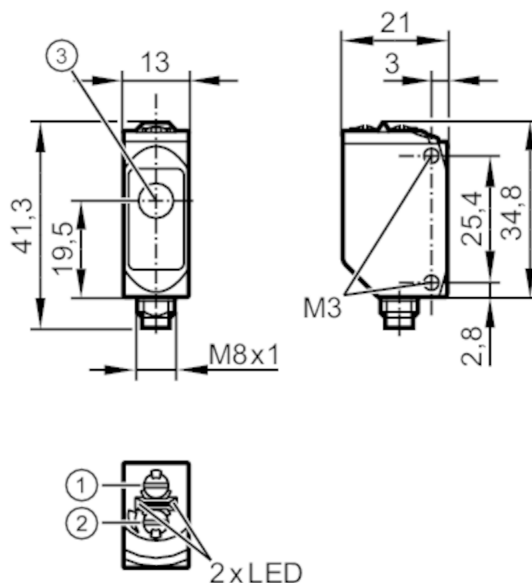




## Through-beam sensor receiver

O6E-FNKG/AS/4P



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



### Application

|                    |                                             |
|--------------------|---------------------------------------------|
| Function principle | Through-beam sensor                         |
| Application        | suited for use in the machine tool 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                               |      | 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      |

# O6E401



## Through-beam sensor receiver

O6E-FNKG/AS/4P

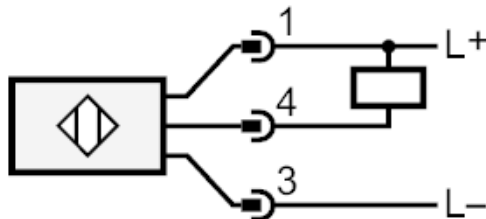
| Operating conditions          |                                                       |                                                                        |
|-------------------------------|-------------------------------------------------------|------------------------------------------------------------------------|
| Ambient temperature           | [°C]                                                  | -25...60                                                               |
| Protection                    |                                                       | IP 65; IP 67; IP 68                                                    |
| Tests / approvals             |                                                       |                                                                        |
| EMC                           | EN 60947-5-2                                          |                                                                        |
| MTTF                          | [years]                                               | 970                                                                    |
| UL approval                   | UL Approval no.                                       | E010                                                                   |
| Mechanical data               |                                                       |                                                                        |
| Weight                        | [g]                                                   | 35.8                                                                   |
| Housing                       |                                                       | rectangular                                                            |
| Dimensions                    | [mm]                                                  | 34.8 x 13 x 21                                                         |
| Materials                     |                                                       | housing: stainless steel (1.4404 / 316L); plastics: PPSU; Sealing: FKM |
| 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

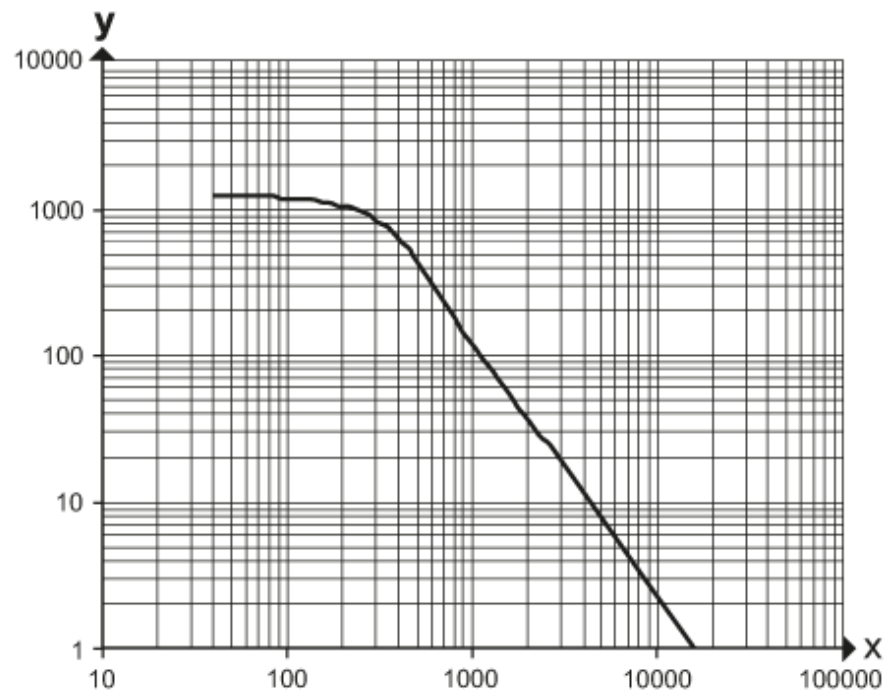


## Through-beam sensor receiver

O6E-FNKG/AS/4P

### Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservefaktor