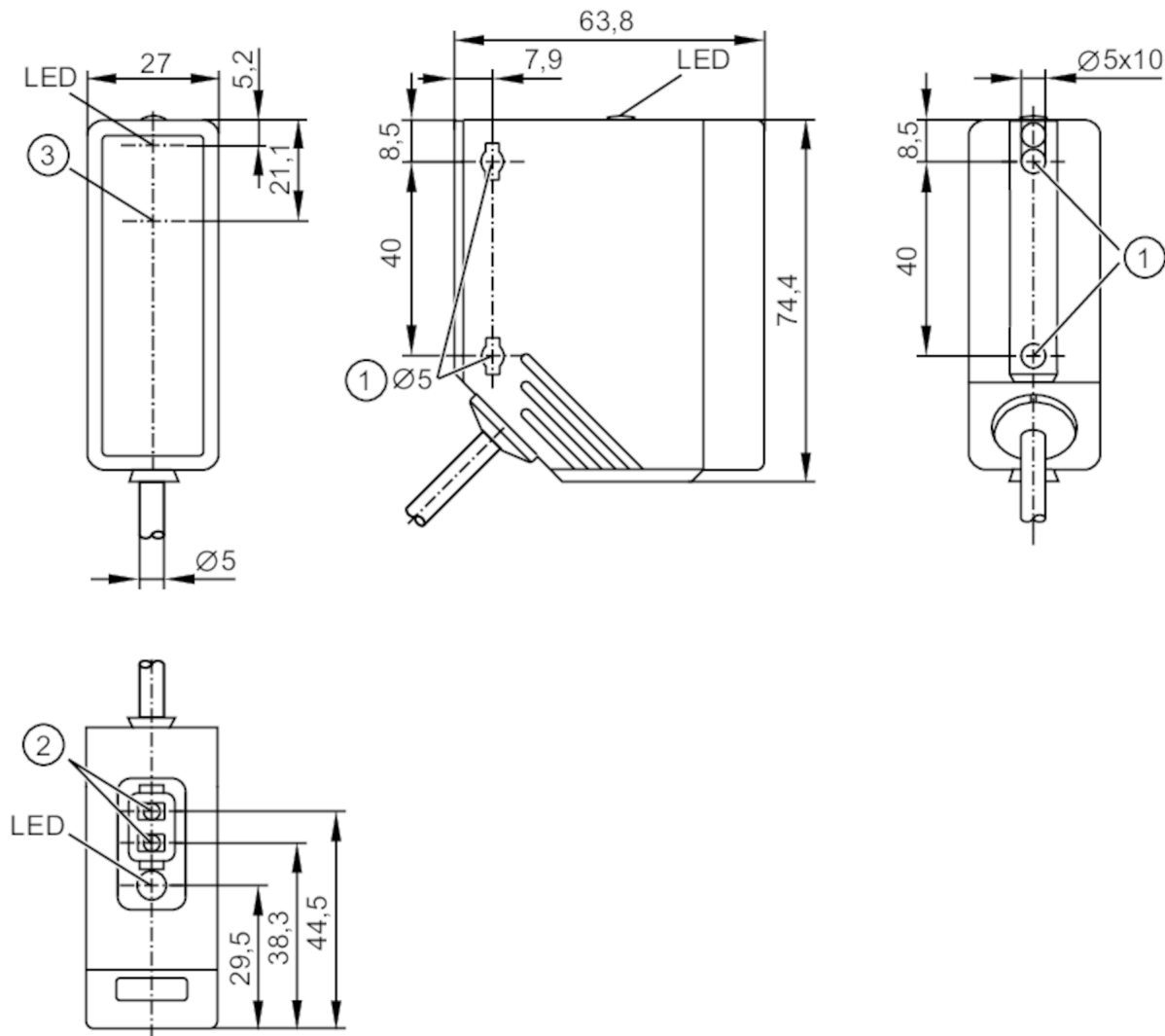


# O4E501



## Through-beam sensor receiver

O4E-FPKG/2M



- 1 fixing hole
- 2 programming buttons
- 3 Light incidence



### Product characteristics

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

### Application

|                    |                     |
|--------------------|---------------------|
| Function principle | Through-beam sensor |
|--------------------|---------------------|

### Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...36 DC |
| Current consumption         | [mA] | 12         |
| Protection class            |      | II         |
| Reverse polarity protection |      | yes        |
| Type of light               |      | red light  |
| Wave length                 | [nm] | 624        |



## Through-beam sensor receiver

O4E-FPKG/2M

| Outputs                                              |                                                              |                 |
|------------------------------------------------------|--------------------------------------------------------------|-----------------|
| Electrical design                                    | PNP                                                          |                 |
| Output function                                      | light-on/dark-on mode; (programmable)                        |                 |
| Max. voltage drop switching output DC [V]            | 2.5                                                          |                 |
| Permanent current rating of switching output DC [mA] | 200                                                          |                 |
| Switching frequency DC [Hz]                          | 1000                                                         |                 |
| Short-circuit protection                             | yes                                                          |                 |
| Type of short-circuit protection                     | pulsed                                                       |                 |
| Overload protection                                  | yes                                                          |                 |
| Detection zone                                       |                                                              |                 |
| Transmitter / receiver                               | receiver                                                     |                 |
| Range [m]                                            | 0...80                                                       |                 |
| Range adjustable                                     | yes                                                          |                 |
| Operating conditions                                 |                                                              |                 |
| Ambient temperature [°C]                             | -25...60                                                     |                 |
| Protection                                           | IP 67                                                        |                 |
| Tests / approvals                                    |                                                              |                 |
| EMC                                                  | EN 60947-5-2                                                 |                 |
| MTTF [years]                                         | 785                                                          |                 |
| Mechanical data                                      |                                                              |                 |
| Weight [g]                                           | 206.5                                                        |                 |
| Housing                                              | rectangular                                                  |                 |
| Dimensions [mm]                                      | 74.4 x 27 x 63.8                                             |                 |
| Materials                                            | housing: PA; bezel: stainless steel; operator interface: TPE |                 |
| Lens material                                        | PMMA                                                         |                 |
| Lens alignment                                       | side lens                                                    |                 |
| Fixing hole                                          |                                                              |                 |
| Tightening torque [Nm]                               | < 2; (when using a mounting screw M5)                        |                 |
| Displays / operating elements                        |                                                              |                 |
| Display                                              | switching status                                             | 1 x LED, yellow |
| Teach function                                       | yes                                                          |                 |
| Electronic lock                                      | yes                                                          |                 |
| Remarks                                              |                                                              |                 |
| Remarks                                              | operating voltage "supply class 2" according to cULus        |                 |
| Pack quantity                                        | 1 pcs.                                                       |                 |

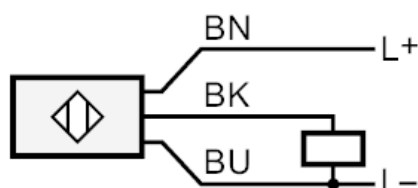
## Through-beam sensor receiver

O4E-FPKG/2M

## Electrical connection

Cable: 2 m, PUR; 3 x 0.34 mm<sup>2</sup>

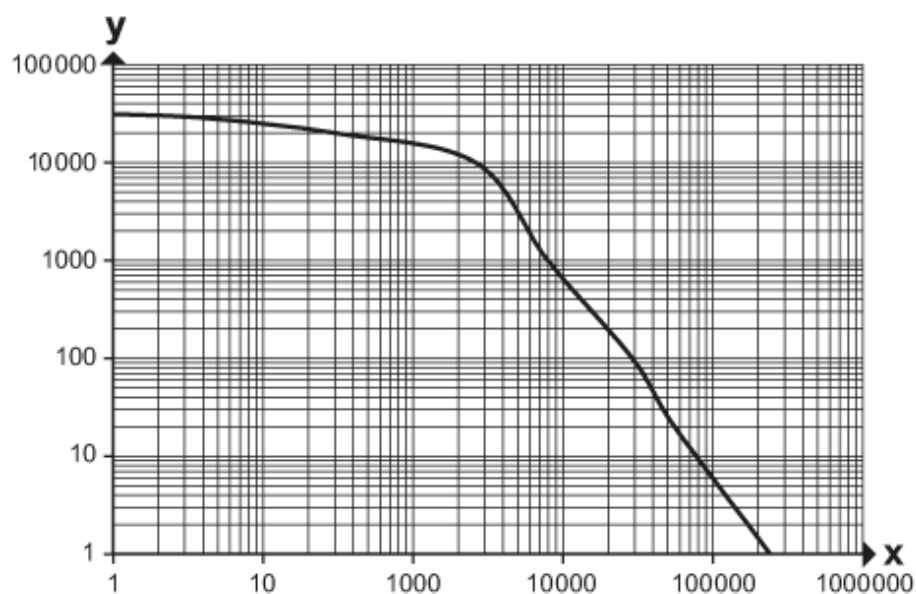
## Connection



|      |                |
|------|----------------|
|      | Core colours : |
| BK = | black          |
| BN = | brown          |
| BU = | blue           |

## Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservefaktor