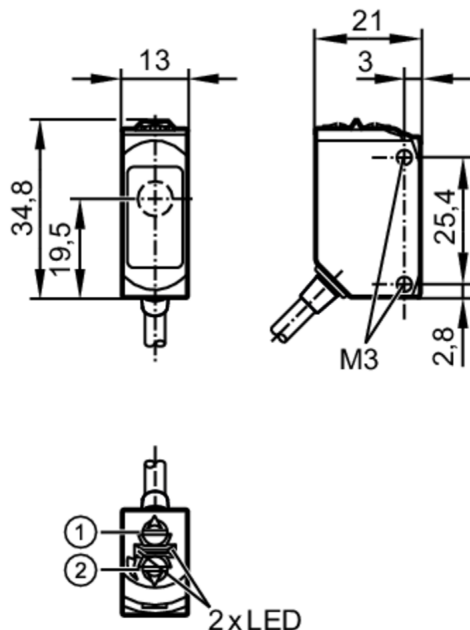


# O6E300



## Through-beam sensor receiver

O6E-FPKG



- 1 output function switch  
1 potentiometer sensitivity



### 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] | 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                |      | pulsed                              |

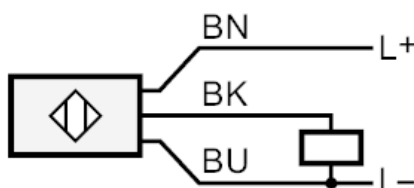
# O6E300



## Through-beam sensor receiver

O6E-FPKG

| Detection zone                            |                  |                                                                       |
|-------------------------------------------|------------------|-----------------------------------------------------------------------|
| 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                               | UL Approval no.  | E003                                                                  |
| Mechanical data                           |                  |                                                                       |
| Weight                                    | [g]              | 80.8                                                                  |
| Housing                                   |                  | rectangular                                                           |
| Materials                                 |                  | housing: stainless steel (316L/1.4404); plastics: PPSU; Sealing: EPDM |
| Lens material                             |                  | PMMA                                                                  |
| Lens alignment                            |                  | side lens                                                             |
| Tightening torque                         | [Nm]             | 1; (screws)                                                           |
| 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                     |                  |                                                                       |
| Cable: 2 m, PVC; 3 x 0.25 mm <sup>2</sup> |                  |                                                                       |
| Connection                                |                  |                                                                       |



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

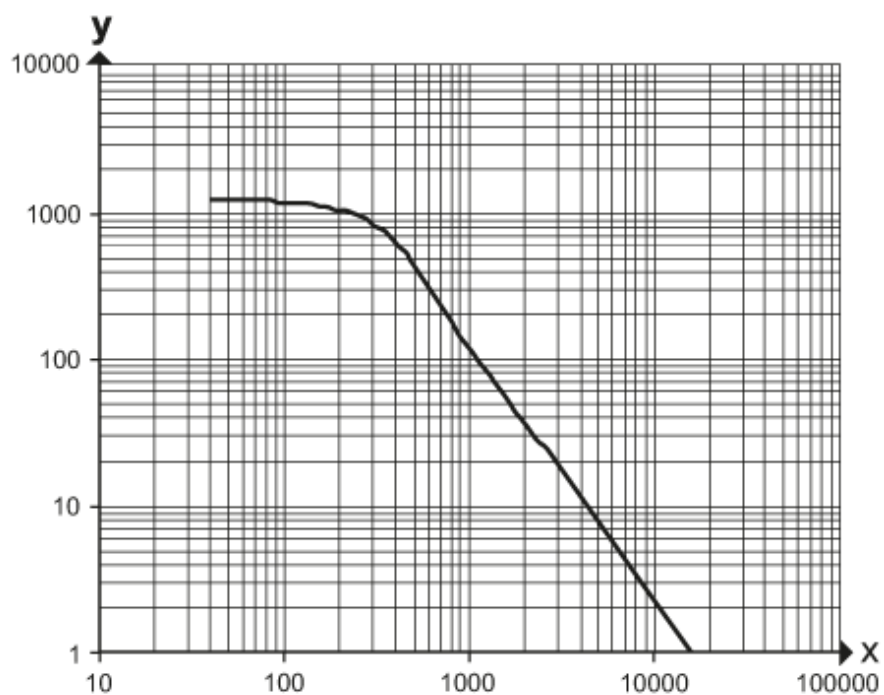


## Through-beam sensor receiver

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### Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor