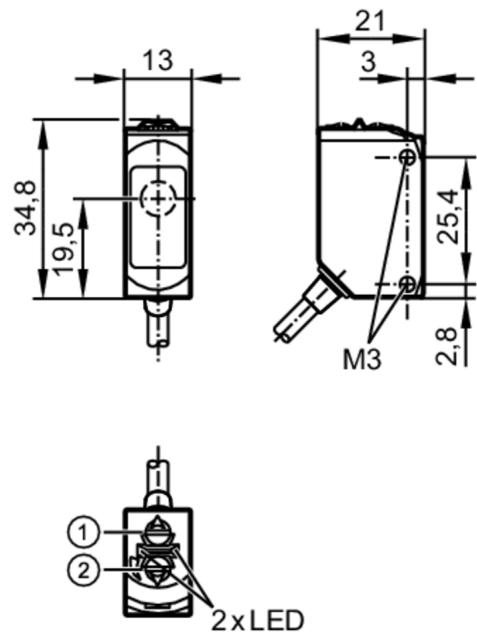


# O6E304



## Through-beam sensor receiver

O6E-FNKG



- 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                               |      | 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                              |

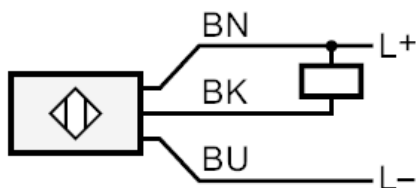
# O6E304



## Through-beam sensor receiver

O6E-FNKG

| 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                                      | [ANN]            | 1014                                                                    |
| UL approval                               | UL Approval no.  | E003                                                                    |
| Mechanical data                           |                  |                                                                         |
| Weight                                    | [g]              | 81.5                                                                    |
| Housing                                   |                  | rectangular                                                             |
| Materials                                 |                  | housing: stainless steel (1.4404 / 316L); 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                                |                  |                                                                         |



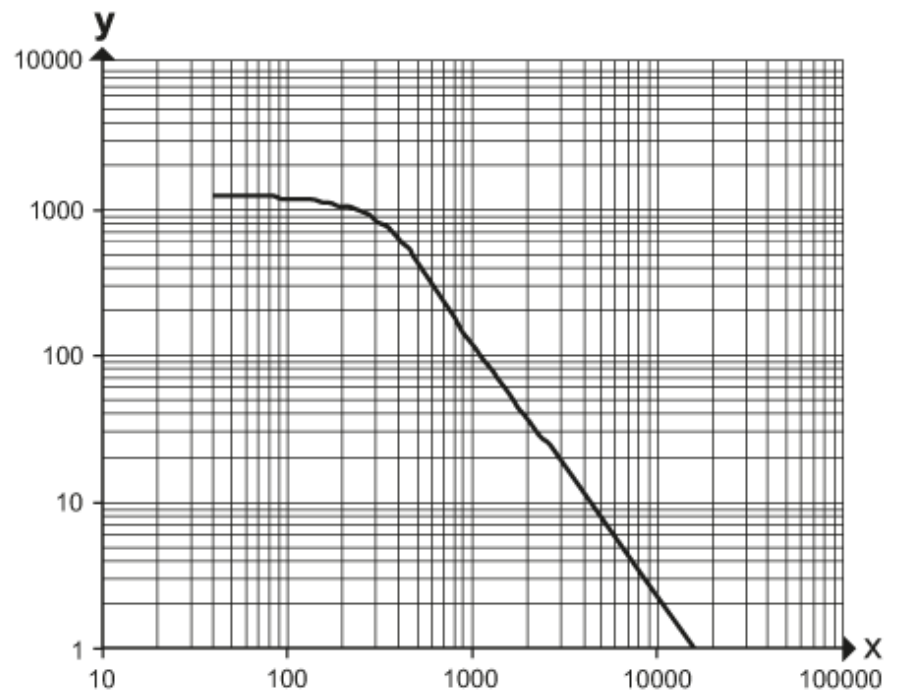
Core colours :  
BN = brown  
BK = black  
BU = blue

## Through-beam sensor receiver

O6E-FNKG

### Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor