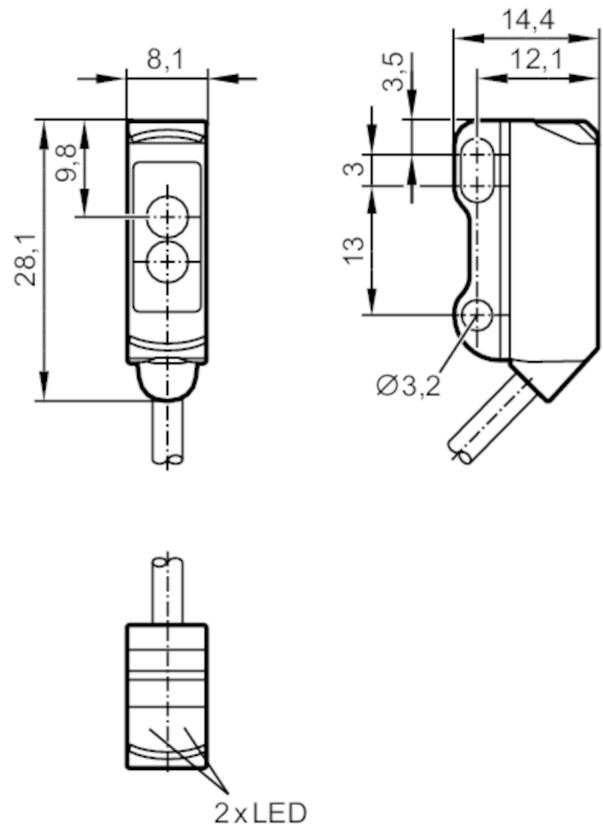




Through-beam sensor receiver

O8E-DNKG/2,0M



Receiver in upper lens



| 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] | 15; ((24 V))        |
| Protection class                                |      | III                 |
| Reverse polarity protection                     |      | yes                 |
| Type of light                                   |      | red light           |
| Wave length                                     | [nm] | 633                 |
| Outputs                                         |      |                     |
| Electrical design                               |      | NPN                 |
| Output function                                 |      | dark-on mode        |
| Max. voltage drop switching output DC           | [V]  | 2.5                 |
| Permanent current rating of switching output DC | [mA] | 100                 |



## Through-beam sensor receiver

O8E-DNKG/2,0M

|                                      |                    |                                                                    |
|--------------------------------------|--------------------|--------------------------------------------------------------------|
| Switching frequency DC               | [Hz]               | 1000                                                               |
| Short-circuit protection             |                    | yes                                                                |
| Type of short-circuit protection     |                    | yes (non-latching)                                                 |
| <b>Monitoring range</b>              |                    |                                                                    |
| Transmitter / receiver               |                    | receiver                                                           |
| Range                                | [m]                | < 3                                                                |
| <b>Operating conditions</b>          |                    |                                                                    |
| Ambient temperature                  | [°C]               | -25...60                                                           |
| Protection                           |                    | IP 65; IP 67                                                       |
| <b>Tests / approvals</b>             |                    |                                                                    |
| EMC                                  |                    | EN 60947-5-2                                                       |
| MTTF                                 | [years]            | 1152                                                               |
| UL approval                          | Ta                 | -25...60 °C                                                        |
|                                      | Enclosure type     | Type 1                                                             |
|                                      | voltage supply     | Limited Voltage/Current                                            |
|                                      | UL approval number | E014                                                               |
|                                      | File number UL     | E174191                                                            |
| <b>Mechanical data</b>               |                    |                                                                    |
| Weight                               | [g]                | 38                                                                 |
| Housing                              |                    | rectangular                                                        |
| Dimensions                           | [mm]               | 28.1 x 8.1 x 14.4                                                  |
| Material                             |                    | housing: ABS; rear of the housing: stainless steel (1.4404 / 316L) |
| Lens material                        |                    | PMMA                                                               |
| Lens alignment                       |                    | Side sensing                                                       |
| <b>Displays / operating elements</b> |                    |                                                                    |
| Display                              | Switching status   | 1 x LED, yellow                                                    |
|                                      | Power              | 1 x LED, green                                                     |
| <b>Remarks</b>                       |                    |                                                                    |
| Pack quantity                        |                    | 1 pcs.                                                             |

# O8E201



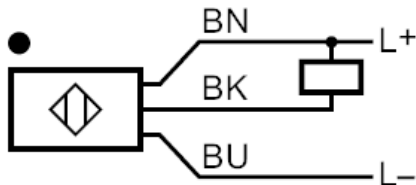
## Through-beam sensor receiver

O8E-DNKG/2,0M

### Electrical connection

Cable: 2 m, PVC, black, Ø 2.9 mm; 3 x 0.08 mm<sup>2</sup>

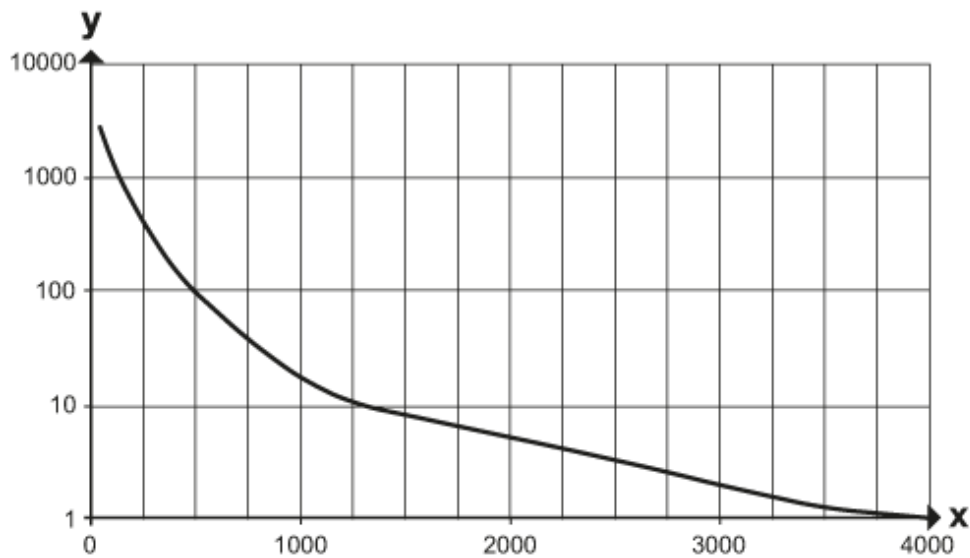
### Connection



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

### Diagrams and graphs

excess gain graph



x: distance [mm]  
y: excess gain factor