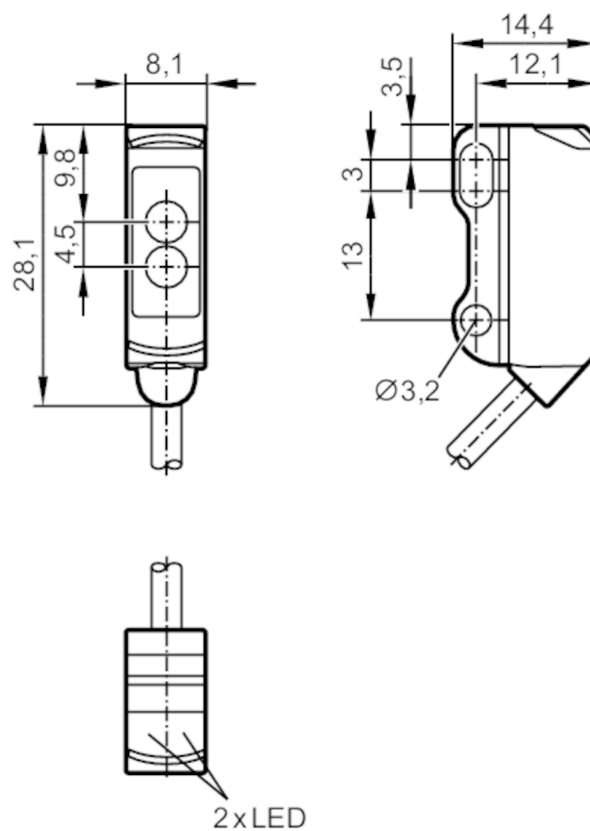


# O8T200



## Diffuse reflection sensor

O8T-HPKG/IO-Link/2,0M



receiver in upper lens  
transmitter in lower lens



| Application                 |                           |
|-----------------------------|---------------------------|
| Function principle          | Diffuse reflection sensor |
| Electrical data             |                           |
| Operating voltage [V]       | 10...30 DC                |
| Current consumption [mA]    | 20; ((24 V))              |
| Protection class            | III                       |
| Reverse polarity protection | yes                       |
| Type of light               | red light                 |
| Wave length [nm]            | 633                       |

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## Diffuse reflection sensor

O8T-HPKG/IO-Link/2,0M

| Outputs                                              |                                                                                           |                 |
|------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------|
| Electrical design                                    | PNP                                                                                       |                 |
| Output function                                      | light-on mode                                                                             |                 |
| 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                                       |                                                                                           |                 |
| Range [mm]                                           | 0...180; (white paper 200 x 200 mm)                                                       |                 |
| Max. light spot diameter [mm]                        | 18                                                                                        |                 |
| Light spot dimensions refer to                       | at maximum range                                                                          |                 |
| Interfaces                                           |                                                                                           |                 |
| Communication interface                              | IO-Link                                                                                   |                 |
| Transmission type                                    | COM2 (38.4 kBaud)                                                                         |                 |
| IO-Link revision                                     | 1.1                                                                                       |                 |
| SDCI standard                                        | IEC 61131-9                                                                               |                 |
| IO-Link device ID                                    | 788 d / 00 03 14 h                                                                        |                 |
| Profiles                                             | Smart Sensor: Device Identification; Device Diagnosis; Teach Channel; Binary Data Channel |                 |
| SIO mode                                             | yes                                                                                       |                 |
| Required master port type                            | A                                                                                         |                 |
| Operating conditions                                 |                                                                                           |                 |
| Ambient temperature [°C]                             | -25...60                                                                                  |                 |
| Protection                                           | IP 65; IP 67                                                                              |                 |
| Tests / approvals                                    |                                                                                           |                 |
| EMC                                                  | EN 60947-5-2                                                                              |                 |
| MTTF [years]                                         | 1054                                                                                      |                 |
| Mechanical data                                      |                                                                                           |                 |
| Weight [g]                                           | 40                                                                                        |                 |
| Housing                                              | rectangular                                                                               |                 |
| Dimensions [mm]                                      | 28.1 x 8.1 x 14.4                                                                         |                 |
| Materials                                            | housing: ABS; stainless steel (1.4404 / 316L)                                             |                 |
| Lens material                                        | PMMA                                                                                      |                 |
| Lens alignment                                       | side lens                                                                                 |                 |
| Displays / operating elements                        |                                                                                           |                 |
| Display                                              | switching status                                                                          | 1 x LED, yellow |
|                                                      | operation                                                                                 | 1 x LED, green  |
| Remarks                                              |                                                                                           |                 |
| Pack quantity                                        | 1 pcs.                                                                                    |                 |

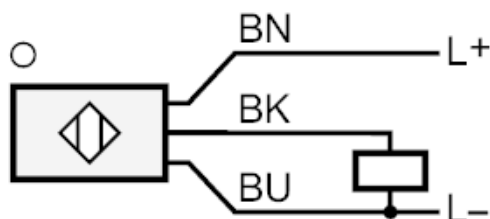
## Diffuse reflection sensor

O8T-HPKG/IO-Link/2,0M

### Electrical connection

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

### Connection

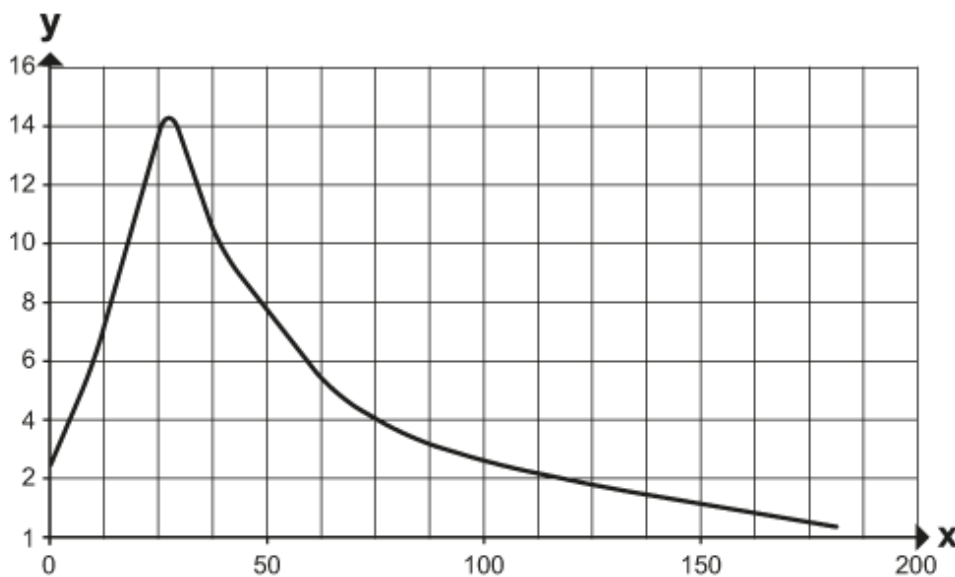


Core colours :

BN = brown  
BK = black  
BU = blue

### Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservfaktor