

Overview

- Extended functional reserve capacities for maximum reliability
- Baumer PinPoint LED: Small, homogeneous light spot with sharp edges
- IO-Link interface independent of the switching output (Dual Channel)
- Extended parameterization options and additional diagnostic data
- Robust housing with stainless steel spacer sleeves



Picture similar



Technical data

General data

| | |
|-------------------------------------|---------------------------|
| Type | Retro-reflective sensor |
| Version | IO-Link dual channel |
| Light source | Pulsed PinPoint LED |
| Actual range Sb | 3 m |
| Nominal range Sn | 4 m |
| Smallest object recognizable typ. | 4 mm (FTAR 013A000) |
| Polarization filter | Yes |
| Alignment / soiled lens indicator | Flashing output indicator |
| Output indicator | LED yellow |
| Power on indication | LED green |
| Sensitivity adjustment | IO-Link |
| Wave length | 644 nm |
| Suppression of reciprocal influence | Yes |
| Alignment optical axis | < 1,5° |

Electrical data

| | |
|------------------------------------|----------------------|
| Response time / release time | < 0.4 ms |
| Jitter | < 0.21 ms |
| Voltage supply range +Vs | 10 ... 30 VDC |
| Current consumption max. (no load) | 45 mA (@ 10 VDC) |
| Current consumption typ. | 16 mA (@ 24 VDC) |
| Voltage drop Vd | <2 VDC |
| Output function | Light / dark operate |
| Output circuit | Push-pull |
| Output current | 50 mA |
| Short circuit protection | Yes |

Electrical data

| | |
|-----------------------------|-----|
| Reverse polarity protection | Yes |
|-----------------------------|-----|

Communication interface

| | |
|------------------------|---|
| Baud rate | 38,4 kBaud (COM 2) |
| Adjustable parameters | Switching point Time filters LED status indicators Output logic Output circuit Counter Deactivate the sensor element Find Me function Teach-in mode |
| IO-Link port type | Class A |
| Process data length | 32 Bit |
| Process data structure | Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement |
| Interface | IO-Link V1.1 |
| Additional data | Signal strength Excess gain Operating cycles Device temperature |
| Cycle time | ≥ 2.7 ms |

Mechanical data

| | |
|---------------------|---------------------------------|
| Width / diameter | 8 mm |
| Height / length | 25.1 mm |
| Depth | 15.8 mm |
| Design | Rectangular |
| Mechanical mounting | Sleeve smooth (stainless steel) |
| Housing material | Plastic (ASA, PMMA) |

Technical data

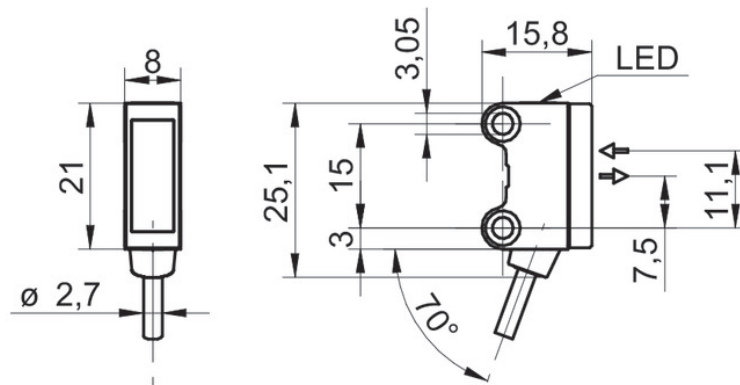
Mechanical data

| | |
|-----------------------|------------------------------------|
| Front (optics) | PMMA |
| Connection types | Cable 4 pin, 2 m |
| Cable characteristics | PVC / PVC 4 x 0.08 mm ² |

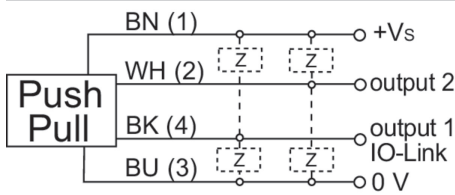
Ambient conditions

| | |
|-----------------------|----------------|
| Operating temperature | -25 ... +50 °C |
| Protection class | IP 67 |

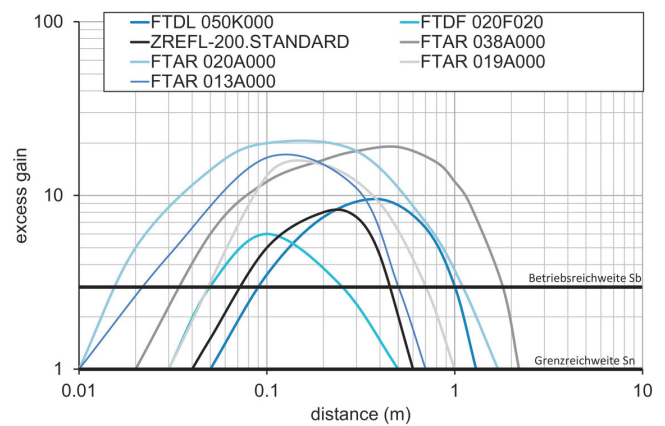
Technical drawings



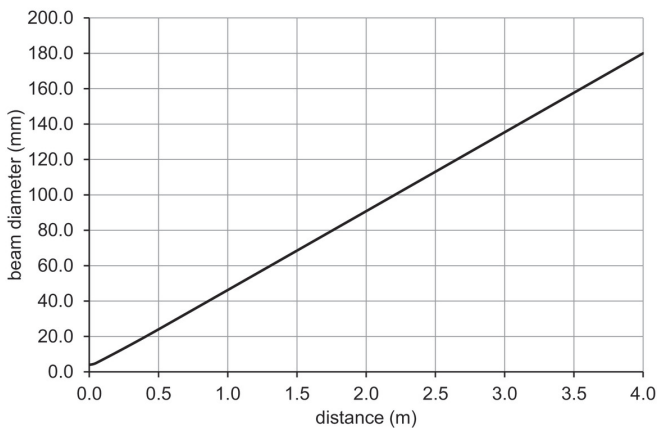
Connection diagram



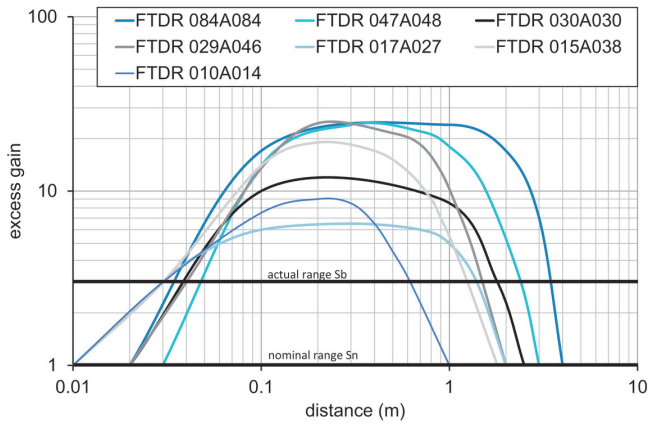
Excess gain curve



Beam characteristic (typically)



Excess gain curve



Lateral operating range

