

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
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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

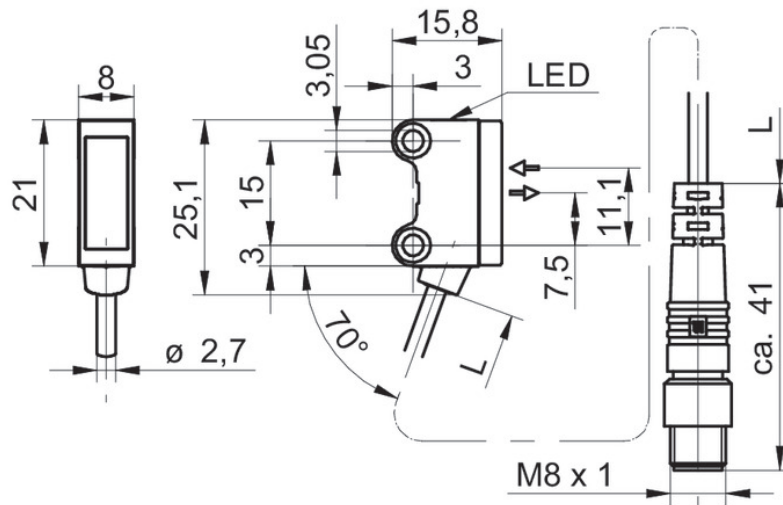
Mechanical data

Front (optics)	PMMA
Connection types	Flylead connector M8 4 pin, L=200 mm
Cable characteristics	PVC / PVC 4 x 0.08 mm ²

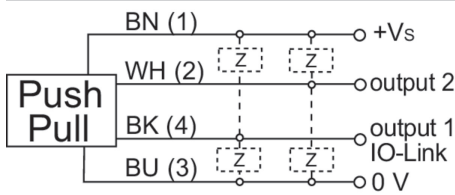
Ambient conditions

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

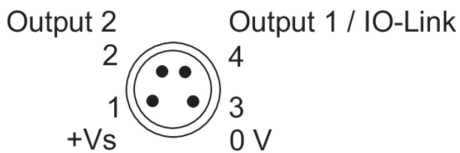
Technical drawings



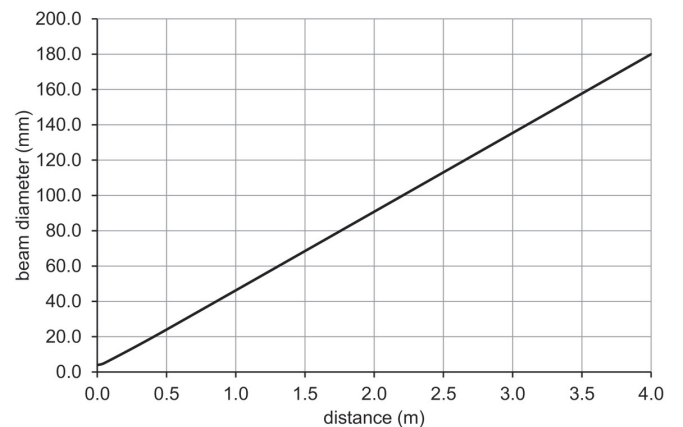
Connection diagram



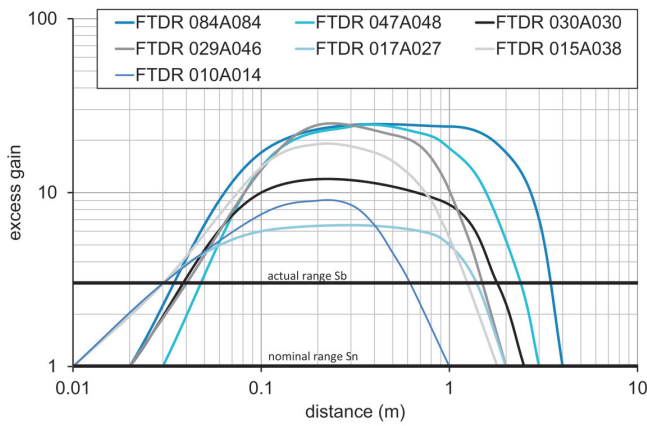
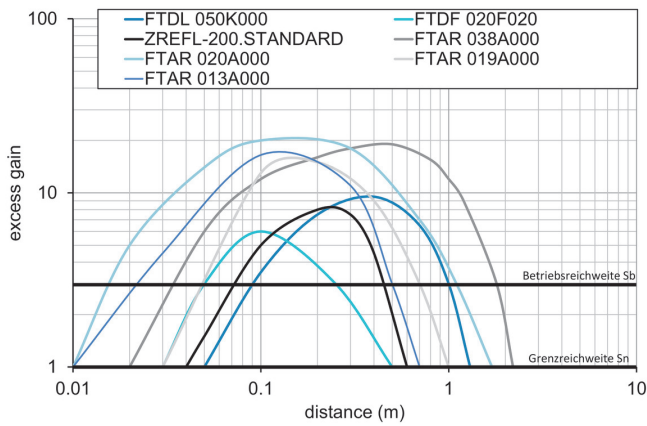
Pin assignment



Beam characteristic (typically)



Excess gain curve



Lateral operating range

