

## Overview

- Extended functional reserve capacities for maximum reliability
- Baumer PinPoint LED: Small, homogeneous light spot with sharp edges
- qTeach - tamper-proof, simple teach-in with ferromagnetic tool
- Robust housing with stainless steel spacer sleeves



Picture similar



## Technical data

### General data

Type	Retro-reflective sensor
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	qTeach
Wave length	644 nm
Suppression of reciprocal influence	Yes
Alignment optical axis	< 1,5°

### Electrical data

Response time / release time	< 0.25 ms
Voltage supply range +Vs	10 ... 30 VDC
Current consumption max. (no load)	40 mA (@ 10 VDC)

### Electrical data

Current consumption typ.	16 mA (@ 24 VDC)
Voltage drop Vd	<2 VDC
Output function	Light / dark operate
Output circuit	NPN complementary
Output current	50 mA
Short circuit protection	Yes
Reverse polarity protection	Yes

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

### Ambient conditions

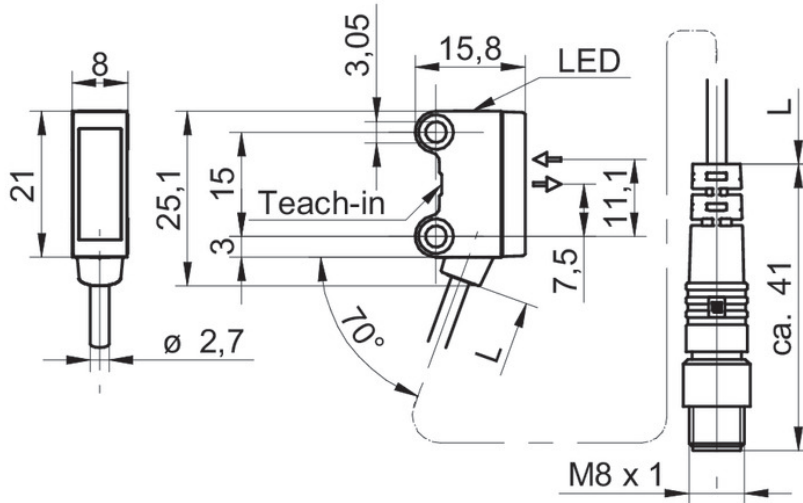
Operating temperature	-25 ... +50 °C
Protection class	IP 67

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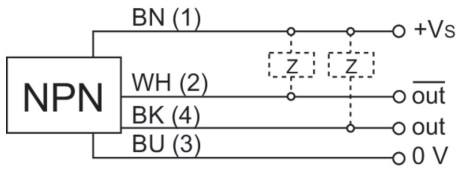
Retro-reflective sensors - miniature

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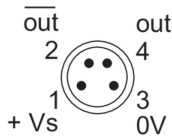
## Technical drawings



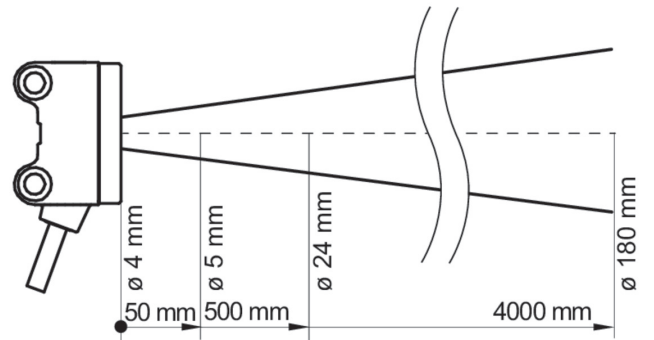
## Connection diagram



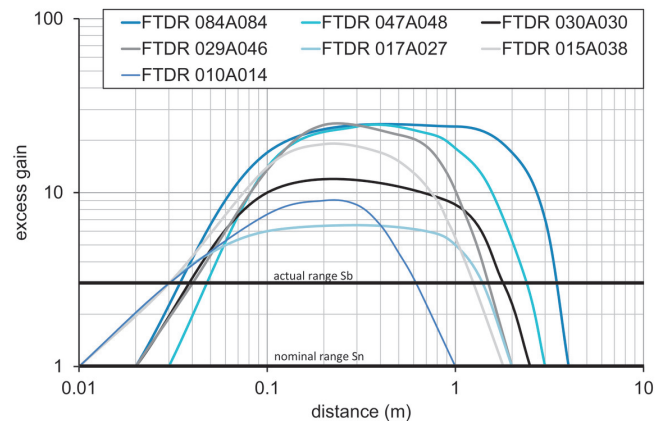
## Pin assignment



## Beam characteristic (typically)



## Excess gain curve

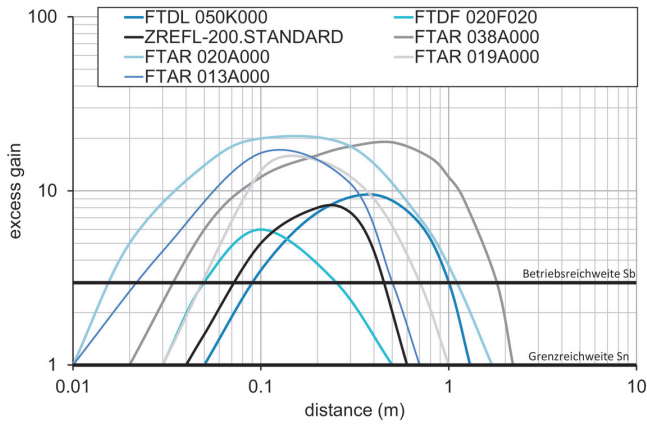


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## Excess gain curve



## Lateral operating range

