

Overview

- Distance measurement via IO-Link or analog output
- Outstanding reliability and unrivalled immunity against ambient light
- Baumer PinPoint LED: Small, homogeneous light spot with sharp edges
- Manipulation-proof, simple teach-in via qTeach
- IO-Link for extended parameterization options and additional diagnostic data
- Robust stainless steel housing in washdown design



Picture similar



Technical data

General data

Type	Distance measuring
Measuring distance Sd	60 ... 550 mm
Measuring range Mr	490 mm
Adjustment	Teach-in and IO-Link
Power on indication	LED green
Output indicator	LED yellow
Repeat accuracy	≤ 200 ... 5000 µm (Raw) ≤ 150 ... 3750 µm (High Speed) ≤ 100 ... 2500 µm (Standard) ≤ 50 ... 1250 µm (High Accuracy)
Linearity error	± 3 % Mr
Beam type	Point
Suppression of reciprocal influence	Yes
Alignment optical axis	< 1°
Temperature drift	< 0,3 % Sde/K

Light Source

Light source	Pulsed PinPoint LED
Wave length	630 nm

Electrical data

Response time / release time	< 1.5 ms (Raw) < 2.25 ms (High Speed Mode) < 4.5 ms (Standard Mode) < 14 ms (High Accuracy Mode)
Voltage supply range +Vs	12 ... 30 VDC

Electrical data

Current consumption max. (no load)	30 mA
Voltage drop Vd	< 2 VDC
Output circuit	Analog 0 ... 10 VDC Push-pull / IO-Link
Output current	< 100 mA (push-pull)
Switching output	Light operate, switchable
Short circuit protection	Yes
Reverse polarity protection	Yes, Vs to GND

Communication interface

Interface	IO-Link V1.1.3
IO-Link port type	Class A
Baud rate	230,4 kBaud (COM 3)
Cycle time	≥ 0.7 ms
Process data length	48 Bit
Process data structure	Bit 0 = SSC1 (distance) Bit 1 = SSC2 (distance) Bit 2 = quality Bit 3 = alarm Bit 8-15 = scale factor Bit 16-47 = 32 Bit measurement

Technical data

Communication interface

Adjustable parameters	Switching point
	Operation mode
	Time filters
	LED-function
	Output logic
	Output circuit
	Analog output characteristic
	Deactivate the sensor element
	Locator function
	Teach-in mode

Additional data	Distance
	Excess gain
	Device temperature

Mechanical data

Width / diameter	20.2 mm
Height / length	47.9 mm
Depth	37.7 mm

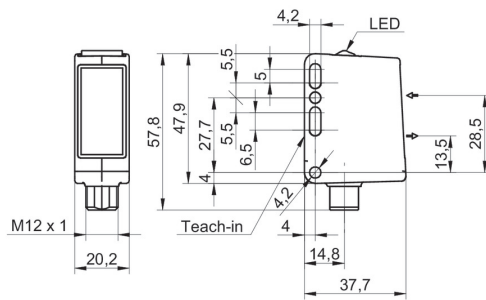
Mechanical data

Type	Rectangular
Housing material	Stainless steel 1.4404 (V4A)
Front (optics)	PMMA
Connection types	Connector M12 5 pin

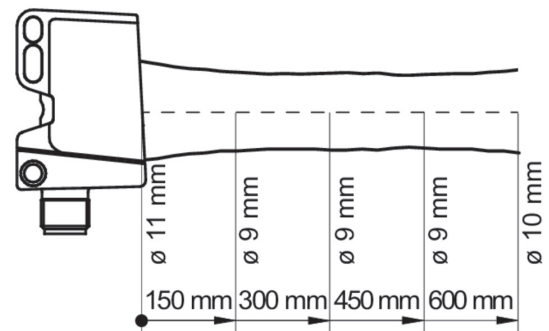
Ambient conditions

Protection class	IP 68/69K & proTect+
Operating temperature	-25 ... +60 °C
Storage temperature	-40 ... +70 °C
Vibration (sinusoidal)	IEC 60068-2-6:2008 10 g at f = 10 - 2000 Hz, duration 150 min per axis
Shock (semi-sinusoidal)	IEC 60068-2-27:2009 50 g / 11 ms, 10 impulses per axis and direction

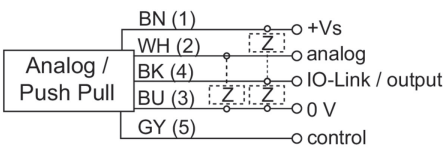
Dimension drawing



Beam characteristic (typically)



Connection diagram



Pin assignment

