

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		Electrical data	
Type	Distance measuring	Current consumption max. (no load)	30 mA
Measuring distance Sd	60 ... 550 mm	Voltage drop Vd	< 2 VDC
Measuring range Mr	490 mm	Output circuit	Analog 4 ... 20 mA Push-pull / IO-Link
Adjustment	Teach-in and IO-Link	Load resistance	< (+Vs - 6 V) / 0,02 A
Power on indication	LED green	Output current	< 100 mA (push-pull)
Output indicator	LED yellow	Switching output	Light operate, switchable
Repeat accuracy	≤ 200 ... 5000 μm (Raw) ≤ 150 ... 3750 μm (High Speed) ≤ 100 ... 2500 μm (Standard) ≤ 50 ... 1250 μm (High Accuracy)	Short circuit protection	Yes
Linearity error	± 3 % Mr	Reverse polarity protection	Yes, Vs to GND
Beam type	Point	Communication interface	
Suppression of reciprocal influence	Yes	Interface	IO-Link V1.1.3
Alignment optical axis	< 1°	IO-Link port type	Class A
Temperature drift	< 0,3 % Sde/K	Baud rate	230,4 kBaud (COM 3)
Light Source		Cycle time	≥ 0.7 ms
Light source	Pulsed PinPoint LED	Process data length	48 Bit
Wave length	630 nm	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
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		

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

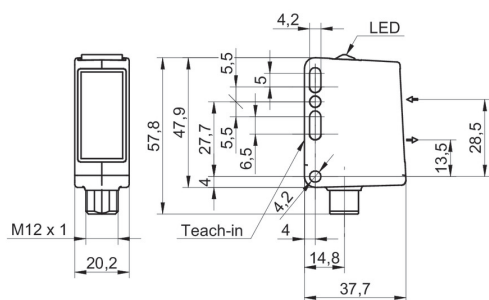
Mechanical data

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

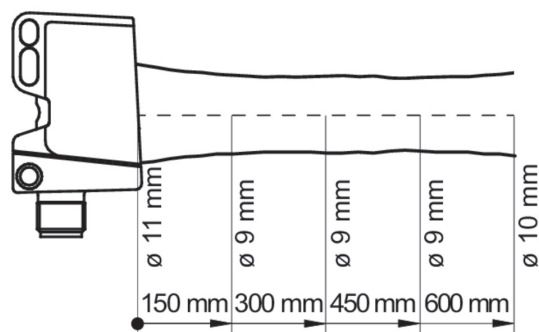
Ambient conditions

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

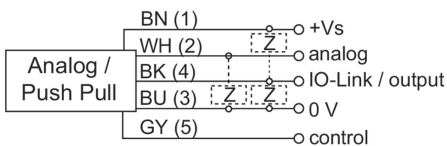
Dimension drawing



Beam characteristic (typically)



Connection diagram



Pin assignment

