Baumer
Passion for Sensors

Ultrasonic distance sensor

U300.D50-DPMJ.72CU/E034

Article number: 11739182

Overview

- Best measuring performance due to precise measuring principle
- Parallel output signal to the IO-Link channel through Dual Channel
- Flexible parameterization and additional diagnostic data thanks to IO-Link
- Shortest blind zone in its class
- High performance in compact housing
- Wide sonic cone profile (factory setting)



Picture similar

Technical data

General data	
Scanning range Sd	15 … 500 mm
Scanning range close limit Sdc	15 … 500 mm
Scanning range far limit Sde	15 … 500 mm
Version	IO-Link dual channel
Hysteresis typ.	4 % Sde
Repeat accuracy	0.5 mm
Resolution	< 0.3 mm
Response time ton/toff standard	< 40 ms
Response time ton/toff min	< 16 ms
Temperature drift	> 50 mm < 2 % of distance to target Sde
Power-up drift	Compensated after 15 min.
Sonic frequency	290 kHz
Adjustment	qTeach, line-Teach, IO-Link
Light indicator	LED yellow
Power on indication	LED green
Alignment measuring axis	< 2°
Electrical data	
Voltage supply range +Vs	12 … 30 VDC
Current consumption typ.	35 mA
Output circuit	Voltage output
Output signal	0 ... 10 V / 10 ... 0 V
Output current	100 mA
Voltage drop Vd	<3 VDC
Residual ripple	< 10 % Vs
Short circuit protection	Yes
Reverse polarity protection	Yes, Vs to GND

Communication interface	
Interface	IO-Link V1.1
Baud rate	38.4 kBaud (COM 2)
Cycle time	≥ 8 ms
Process data length	48 Bit
Process data structure	Bit 0 = SSC1 (distance) Bit 1 = SSC2 (distance) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 8-15 = scale factor Bit 16-47 = 32 Bit measurement
IO-Link port type	Class A
Additional data	Distance Excess gain Operating cycles Operating hours Boot cycles Operating voltage Device temperature Histograms
Adjustable parameters	Switching point Switching hysteresis Measured value filtering Time filters LED status indicators Output logic Output circuit Counter Beam forming Analog output characteristic Deactivate the sensor element Find Me function
IO-Link	Yes

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2026-09-24

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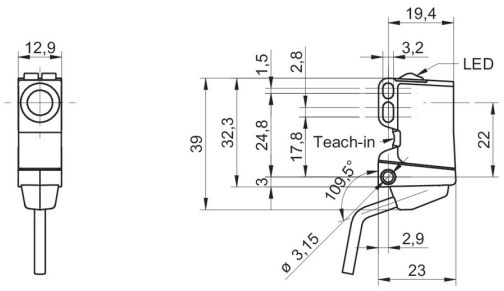
Technical data

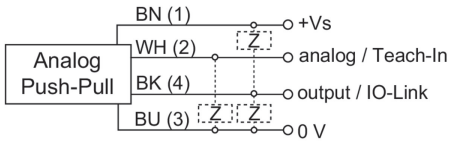
Mechanical data	
Design	Rectangular
Housing material	Plastic (ASA, PMMA)
Width / diameter	12.9 mm
Height / length	32.2 mm
Depth	23 mm

Mechanical data	
Connection types	Cable 4 pin, 2 m
Ambient conditions	
Operating temperature	-25 … +65 °C
Storage temperature	-40 … +75 °C
Protection class	IP 67

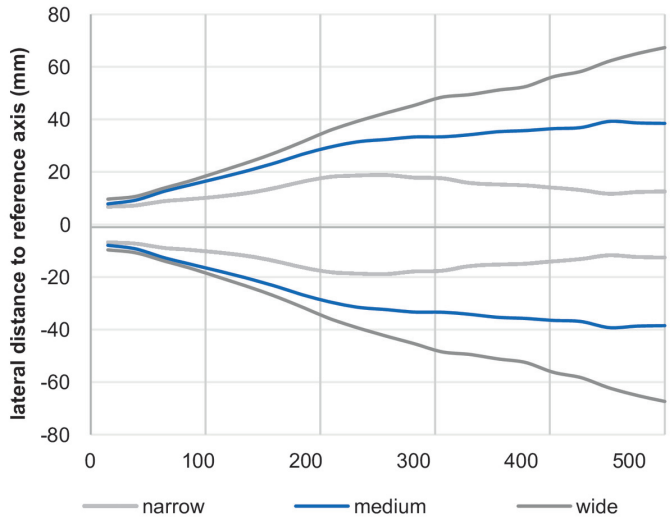
Dimension drawing



Connection diagram



Typical sonic cone profile



object distance (So) from sensor front (mm)
standard target with 30 x 30 mm, directed rectangular to sensor's reference axis

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Accessories

Mounting accessories	
11104963	Sensofix O300/U300
11102423	Mounting bracket O300/U300 (L design)
11124807	Mounting bracket O300 - Retrofit for sensors series 20
11706924	Sonic beam deflector U300
11707685	Mounting rod with mounting plate holder 200 mm
11707686	Mounting rod with mounting plate holder 300 mm
11707688	Mounting rod 200 mm
11707697	Mounting rod 250 mm
11707698	Mounting rod with mounting plate holder 250 mm
11707687	Mounting rod 300 mm
11707701	Mounting plate series 300 and ø12 mm
11707702	Mounting base
11707703	Two-way connector

Peripherals	
11261571	CM50I.PN-11261571
11261572	CM50I.EC-11261572
11261573	CM50I.EIP-11261573
11084377	ZTEST-ALL.DIGITAL
11084376	ZTEST-ALL.ANALOG
11234828	USB-C IO-Link Master

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