

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



Picture similar



Technical data

General data

Scanning range Sd	10 ... 250 mm
Scanning range close limit Sdc	10 ... 250 mm
Scanning range far limit Sde	10 ... 250 mm
Version	IO-Link dual channel
Hysteresis typ.	4 % Sde
Repeat accuracy	0.5 mm
Resolution	0.3 mm
Response time ton/toff standard	< 25 ms
Response time ton/toff min	< 10 ms
Temperature drift	< 2 % of distance to target Sde
Sonic frequency	370 kHz
Adjustment	qTeach, 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.	13 mA
Output circuit	Current output
Baud rate	38.4 kBaud (COM 2)
Output signal	4 ... 20 mA / 20 ... 4 mA
Load resistance	< (+Vs - 10V) / 0.02 A
Residual ripple	< 10 % Vs
Short circuit protection	Yes
Reverse polarity protection	Yes, Vs to GND

Communication interface

Interface	IO-Link V1.1
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Communication interface

Baud rate	38.4 kBaud (COM 2)
Cycle time	≥ 5 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

IO-Link port type	Class A
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Additional data

Additional data	Distance Excess gain Operating cycles Operating hours Boot cycles Operating voltage Device temperature Histograms
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Adjustable parameters

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
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Mechanical data

Design	Rectangular
Housing material	Plastic (ASA, PMMA)

Technical data

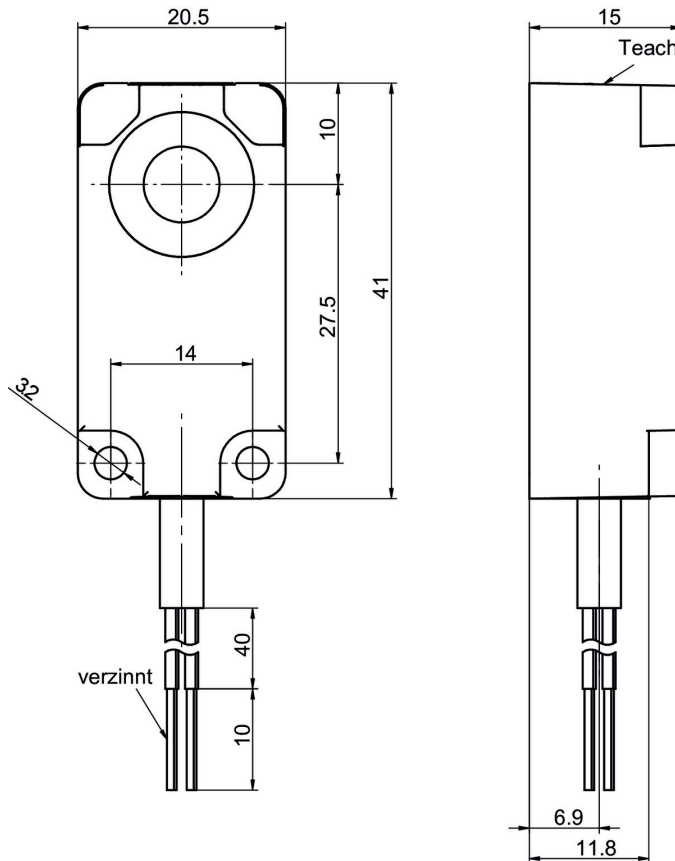
Mechanical data

Width / diameter	20.5 mm
Height / length	41 mm
Depth	15 mm
Connection types	Cable 4 pin, 2 m

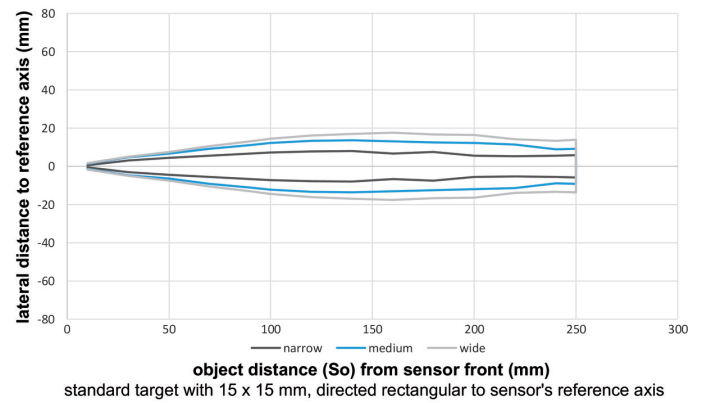
Ambient conditions

Operating temperature	-25 ... +65 °C
Storage temperature	-25 ... +75 °C
Protection class	IP 67

Dimension drawing



Typical sonic cone profile



Accessories

Mounting accessories

11727892	Mounting plate series UF200 and UF300
11707688	Mounting rod 200 mm
11707685	Mounting rod with mounting plate holder 200 mm
11707697	Mounting rod 250 mm
11707698	Mounting rod with mounting plate holder 250 mm
11707687	Mounting rod 300 mm
11707686	Mounting rod with mounting plate holder 300 mm
11707702	Mounting base
11707703	Two-way connector
10150326	10150326
10153290	ZUSDF-USS.S20

Connection diagram

