

Overview

- Fastest limit value detection due to extremely short response times
- Acquisition of two independent limit values
- Flexible parameterization and additional diagnostic data thanks to IO-Link
- Shortest blind zone in its class
- High performance in compact housing



Technical data

General data

Special type	2 point proximity switch
Scanning range Sd	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
Temperature drift	< 2 % Sde
Power-up drift	Compensated after 15 min.
Response time ton/toff min	< 16 ms
Response time ton/toff standard	< 40 ms
Sonic frequency	290 kHz
Adjustment	qTeach, line-Teach, IO-Link
Output indicator	Yellow LED / red LED
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	Push-pull
Output current	< 100 mA
Voltage drop Vd	< 3 VDC
Residual ripple	< 10 % Vs
Short circuit protection	Yes
Reverse polarity protection	Yes

Communication interface

Interface	IO-Link V1.1
Baud rate	38,4 kBaud (COM 2)
Cycle time	≥ 8 ms
Process data length	48 Bit

Communication interface

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
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IO-Link port type	Class A
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Additional data	Distance Excess gain Operating cycles Operating hours Boot cycles Operating voltage Device temperature Histograms
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Adjustable parameters	Time filters LED status indicators Output logic Output circuit Counter Beam forming Deactivate the sensor element Find Me function
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IO-Link	Yes
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Mechanical data

Type	Rectangular
Housing material	Plastic (ASA, PMMA)
Width / diameter	12.9 mm
Height / length	32.2 mm
Depth	23 mm
Connection types	Cable

Ambient conditions

Operating temperature	-25 ... +65 °C
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U300.P50-GP2J.72CU

Ultrasonic 2 point proximity switch

Article number: 11219505

Technical data

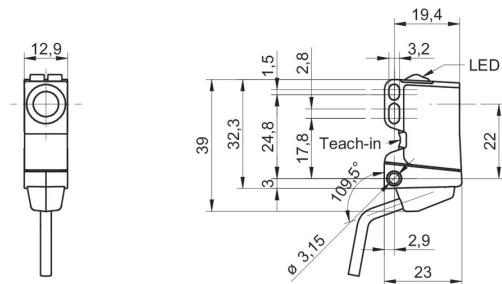
Ambient conditions

Storage temperature -40 ... +75 °C

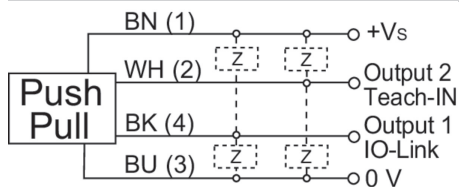
Ambient conditions

Protection class IP 67

Dimension drawing



Connection diagram



Typical sonic cone profile

