

Overview

- Fastest limit value detection due to extremely short response times
- 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	15 ... 500 mm
Scanning range far limit Sde	15 ... 500 mm
Version	IO-Link Multiplex version
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
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	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
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Communication interface

Baud rate	38.4 kBaud (COM 2)
Cycle time	≥ 8 ms
IO-Link port type	Class A
Additional data	Distance Excess gain Operating cycles Operating hours Boot cycles Operating voltage Device temperature Histograms
Adjustable parameters	Time filters LED status indicators Output logic Output circuit Counter Beam forming Deactivate the sensor element Find Me function
IO-Link	Yes

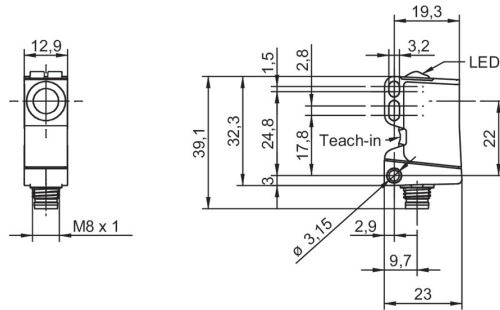
Mechanical data

Design	Rectangular
Housing material	Plastic (ASA, PMMA)
Width / diameter	12.9 mm
Height / length	32.2 mm
Depth	23 mm
Connection types	Connector M8 4 pin

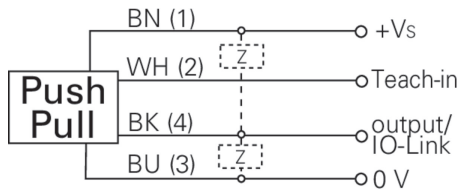
Ambient conditions

Operating temperature	-25 ... +65 °C
Storage temperature	-40 ... +75 °C
Protection class	IP 67

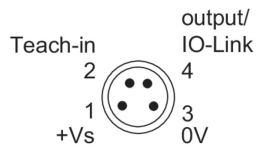
Dimension drawing



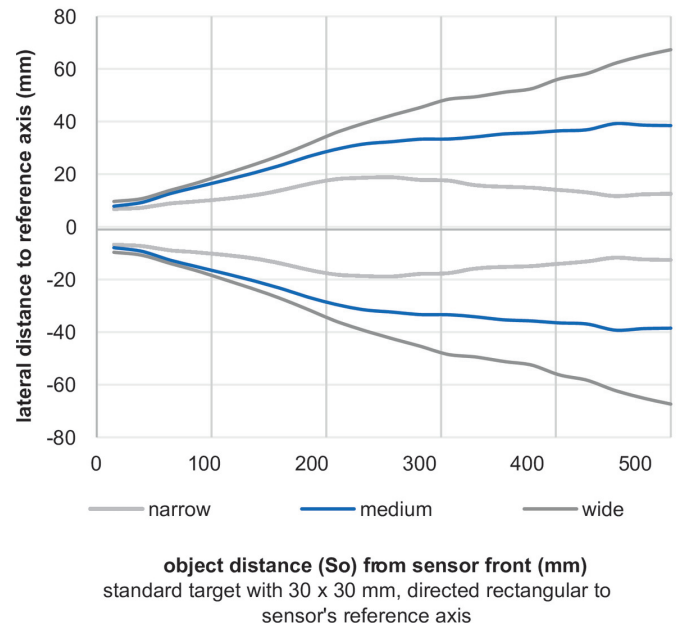
Connection diagram



Pin assignment



Typical sonic cone profile



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