

Overview

- Most reliable object detection through barrier principle
- Flexible parameterization and additional diagnostic data thanks to IO-Link
- High performance in compact housing
- Metal connector



Picture similar



Technical data

General data

Scanning range Sd	0 ... 1000 mm
Reflector position Sde	20 ... 1000 mm
Adjusting range reflector (operating range)	± 2,5 % Sde
Adjusting range reflector (limit range)	± 5 % Sde
Version	IO-Link
Repeat accuracy	0.5 mm
Response time ton/toff min	< 24 ms
Response time ton/toff standard	< 60 ms
Temperature drift	< 2 % of distance to target Sde
Power-up drift	Compensated after 15 min.
Sonic frequency	220 kHz
Adjustment	qTeach, line-Teach, IO-Link
Alignment aid	Light indicator flashing
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.	12 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, 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	≥ 12 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	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

Mechanical data

Design	Rectangular
Housing material	Plastic (ASA, PMMA)
Width / diameter	20.5 mm
Height / length	41 mm
Depth	15 mm
Connection types	Connector M8 4 pin

Ambient conditions

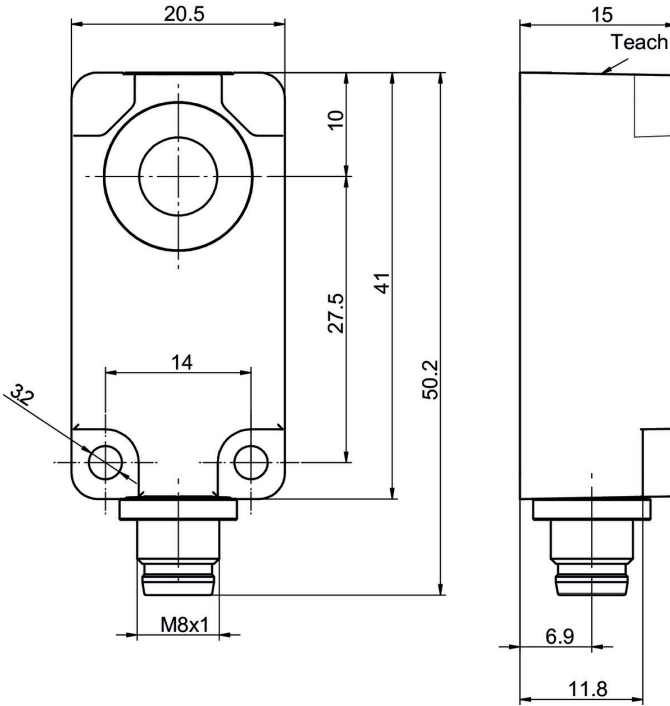
Operating temperature	-25 ... +65 °C
Storage temperature	-25 ... +75 °C

Technical data

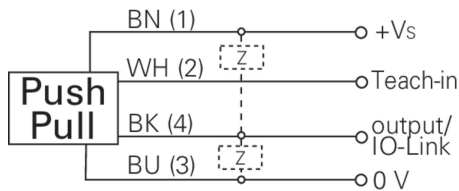
Ambient conditions

Protection class IP 67

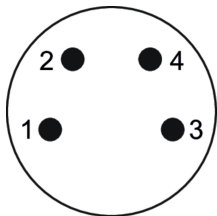
Dimension drawing



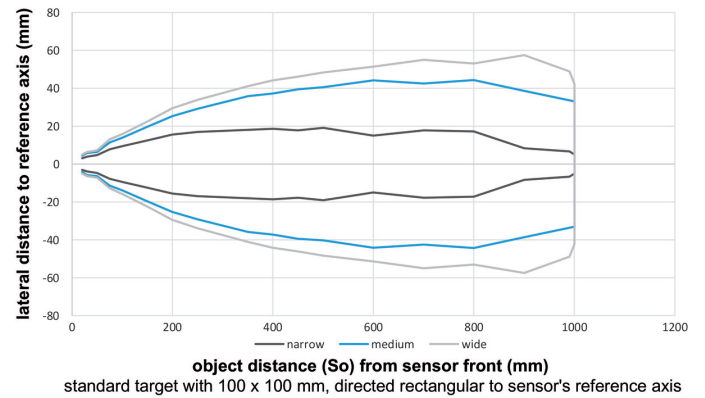
Connection diagram



Pin assignment



Typical sonic cone profile



Accessories

Mounting accessories

11727892	Mounting plate series UF200 and UF300
11707697	Mounting rod 250 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