

## Overview

- 20 ... 1000 mm
- current output
- qTeach, line-Teach, IO-Link
- connector M12 5 pin
- 25 ... 65 °C
- IP 69



Picture similar



## Technical data

### General data

Scanning range Sd	20 ... 1000 mm
Scanning range close limit Sdc	20 ... 1000 mm
Scanning range far limit Sde	20 ... 1000 mm
Version	IO-Link dual channel
Hysteresis typ.	4 % Sde
Repeat accuracy	< 0,5 mm
Resolution	< 0,3 mm
Response time ton	< 40 ms
Release time toff	< 40 ms
Temperature drift	< 2 % of distance to target So
Power-up drift	Compensated after 15 min.
Sonic frequency	200 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	Current output
Output signal	4 ... 20 mA / 20 ... 4 mA
Output current	< 100 mA
Voltage drop Vd	< 3,5 VDC

### Electrical data

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	≥ 12 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
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Additional data	Distance Excess gain Operating cycles Operating hours Boot cycles Operating voltage Device temperature Histograms
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## Technical data

### Communication interface

Adjustable parameters	Switching point
	Switching hysteresis
	Measured value filtering
	Time filters
	LED status indicators
	Output logic
	Output circuit
	Counter
	Beam forming
	Analog output characteristic
	Function of pin 5
	Deactivate the sensor element
	Find Me function

### Mechanical data

Housing material	Stainless steel (V2A) / TR90
Coating active face	PEEK
Width / diameter	18 mm
Height / length	64 mm
Connection types	Connector M12 5 pin

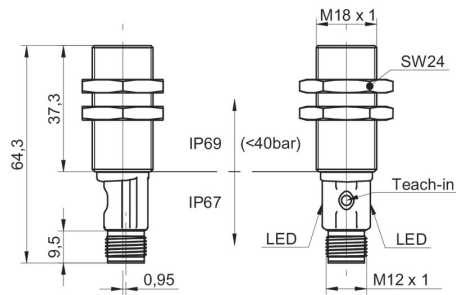
### Ambient conditions

Operating temperature	-25 ... +65 °C
Storage temperature	-40 ... +75 °C
Protection class	IP 69
Protection class (connection)	IP 67

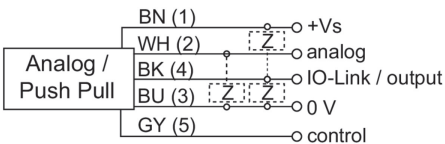
### Mechanical data

Type	Cylindrical threaded
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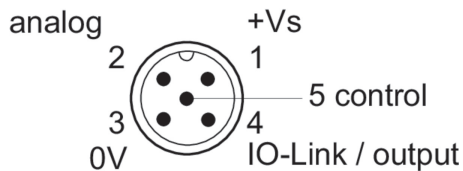
## Dimension drawing



## Connection diagram



## Pin assignment



## Typical sonic cone profile

