

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



Technical data

General data

| | |
|---------------------------------|---|
| Scanning range Sd | 15 ... 500 mm |
| Scanning range close limit Sdc | 15 ... 500 mm |
| Scanning range far limit Sde | 15 ... 500 mm |
| Version | IO-Link dual channel Multiplex version |
| Hysteresis typ. | 4 % Sde |
| Repeat accuracy | < 0.5 mm |
| Resolution | < 0.3 mm |
| Response time ton/toff standard | < 40 ms |
| Response time ton/toff min | < 16 ms |
| Temperature drift | > 50 mm < 2 % of distance to target Sde < 50 mm ± 1 mm |
| Power-up drift | Compensated after 15 min. |
| Sonic frequency | 290 kHz |
| Adjustment | 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 | Voltage output |
| Output signal | 0 ... 10 V / 10 ... 0 V |
| Output current | 100 mA |
| Load resistance | > 10 kOhm |
| Voltage drop Vd | <3 VDC |
| Residual ripple | < 10 % Vs |
| Short circuit protection | Yes |

Electrical data

Reverse polarity protection Yes, Vs to GND

Communication interface

| | |
|------------------------|--|
| Interface | IO-Link V1.1 |
| Baud rate | 38,4 kBaud (COM 2) |
| Cycle time | ≥ 8 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 |
| 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 |
| IO-Link | Yes |

Technical data

Mechanical data

| | |
|------------------|----------------------|
| Design | Cylindrical threaded |
| Housing material | Brass nickel plated |
| Width / diameter | 12 mm |
| Height / length | 50 mm |
| Connection types | Connector M12 |

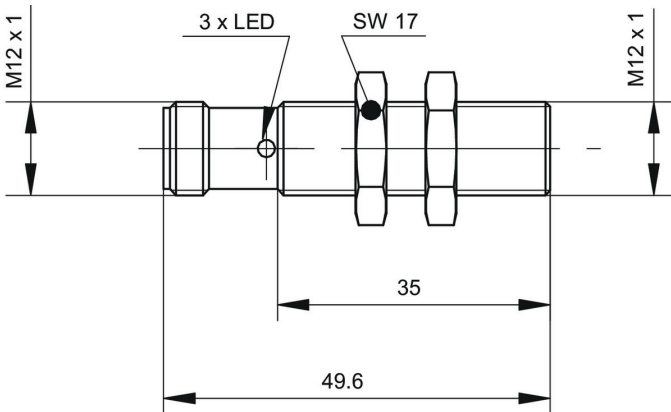
Mechanical data

| | |
|------------------------|----------------------|
| Tightening torque max. | 15 Nm (Front: 10 Nm) |
|------------------------|----------------------|

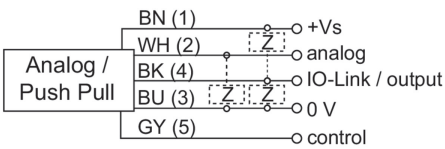
Ambient conditions

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

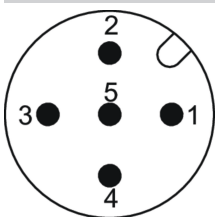
Dimension drawing



Connection diagram



Pin assignment



Typical sonic cone profile

