

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 Multiplex version |
| 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 | > 50 mm < 2 % of distance to target Sde |
| 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 |

Electrical data

| | |
|-----------------------------|----------------|
| Voltage drop Vd | <3.5 VDC |
| 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 |
|-------------------|---------|

| | |
|-----------------|--|
| Additional data | Distance Excess gain Operating cycles Operating hours Boot cycles Operating voltage Device temperature Histograms |
|-----------------|--|

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 |

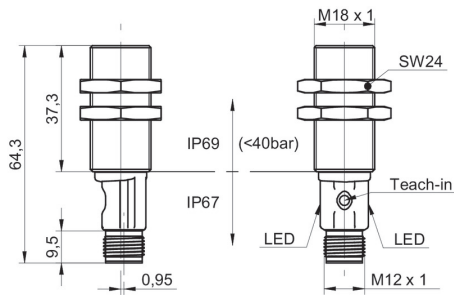
Ambient conditions

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

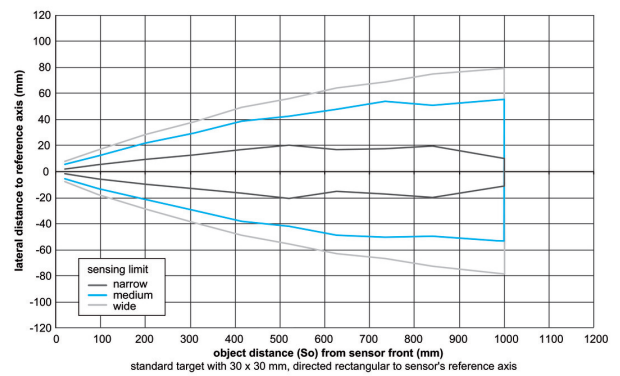
Mechanical data

| | |
|--------|----------------------|
| Design | Cylindrical threaded |
|--------|----------------------|

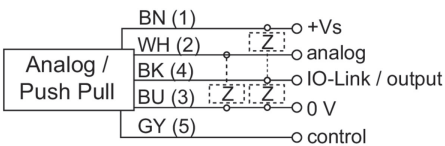
Dimension drawing



Typical sonic cone profile



Connection diagram



Pin assignment

