

Overview

- 20 ... 1500 mm
- voltage 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 ... 1500 mm
Scanning range close limit Sdc	20 ... 1500 mm
Scanning range far limit Sde	20 ... 1500 mm
Version	IO-Link dual channel
Hysteresis typ.	4 % Sde
Repeat accuracy	0.5 mm
Resolution	< 0.3 mm
Response time ton	< 70 ms
Release time toff	< 70 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	Voltage output
Output signal	0 ... 10 V / 10 ... 0 V
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
-------------------	---------

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

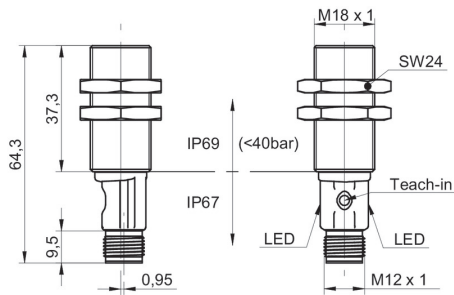
Ambient conditions

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

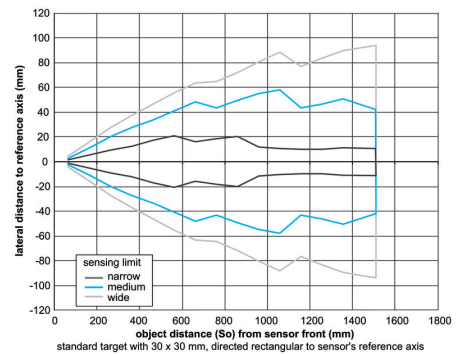
Mechanical data

Type	Cylindrical threaded
------	----------------------

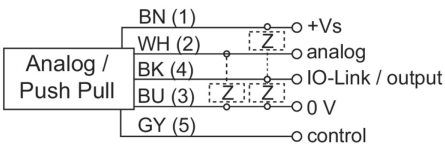
Dimension drawing



Typical sonic cone profile



Connection diagram



Pin assignment

