

**overview**

- 70 ... 1000 mm
- voltage output
- qTeach, line-Teach, IO-Link
- connector M12 5 pin
- -25 ... 65 °C
- IP 69



**Technical data**

**general data**

scanning range Sd	70 ... 1000 mm
scanning range close limit Sdc	70 ... 1000 mm
scanning range far limit Sde	70 ... 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
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.	35 mA
output circuit	voltage output
output signal	0 ... 10 V / 10 ... 0 V
output current	< 100 mA
voltage drop Vd	< 3,5 VDC
residual ripple	< 10 % Vs

**electrical data**

short circuit protection	yes
reverse polarity protection	yes, Vs to GND

**communications interface**

interface	IO-Link V1.1
baud rate	38,4 kBaud (COM 2)
cycle time	≥ 12 ms
process data length	32 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**

IO-Link port type	Class A
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**additional data**

additional data	distance excess gain operating cycles operating hours boot cycles operating voltage device temperature histograms
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**Technical data**

**communications 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

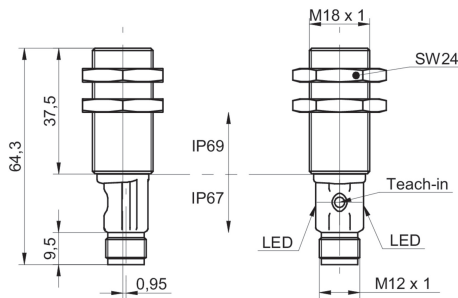
**ambient conditions**

operating temperature	-25 ... +65 °C
storage temperature	-40 ... +75 °C
protection class	IP 69
protection class (connection)	IP 67

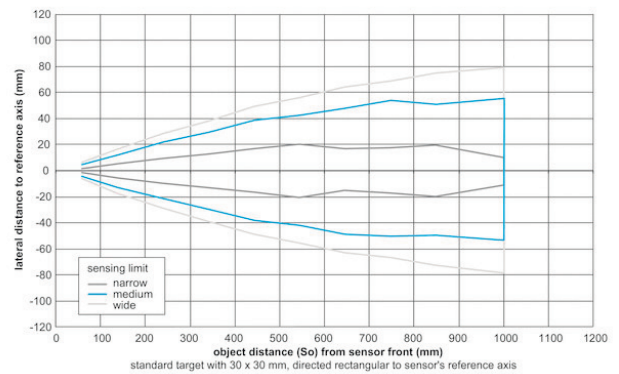
**mechanical data**

type	cylindrical threaded
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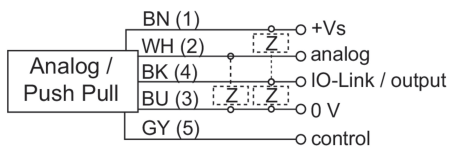
**dimension drawing**



**typical sonic cone profile**



**connection diagram**



**pin assignment**

