

overview

- 20 ... 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	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
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	Class A

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

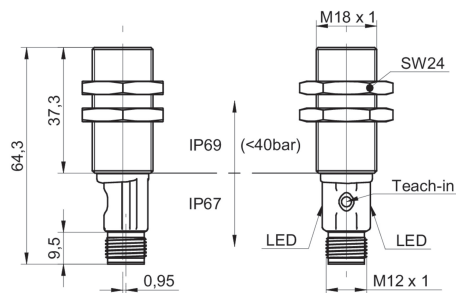
communications interface

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

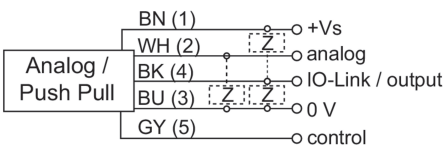
mechanical data

type	cylindrical threaded
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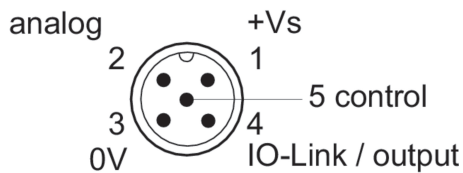
dimension drawing



connection diagram



pin assignment



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

typical sonic cone profile

