

overview

- 0... 1000 mm
- push-pull
- qTeach, line-Teach, IO-Link
- connector M12 5 pin
- -25 ... 65 °C
- IP 69



Technical data

general data

scanning range Sd	0... 1000 mm
reflector position Sde	100 ... 1000 mm
adjusting range reflector (operating range)	± 2,5 % Sde
adjusting range reflector (limit range)	± 5 % Sde
version	IO-Link
repeat accuracy	< 0,5 mm
temperature drift	< 2 % Sde
power-up drift	compensated after 15 min.
response time ton	< 40 ms
release time toff	< 40 ms
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	push-pull
output current	< 100 mA
voltage drop Vd	< 3,5 VDC
residual ripple	< 10 % Vs
short circuit protection	yes

electrical data

reverse polarity protection	yes
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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
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additional data	distance excess gain operating cycles operating hours boot cycles operating voltage device temperature histograms
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adjustable parameters	time filters LED status indicators output logic output circuit counter beam forming deactivate the sensor element Find Me function
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Technical data

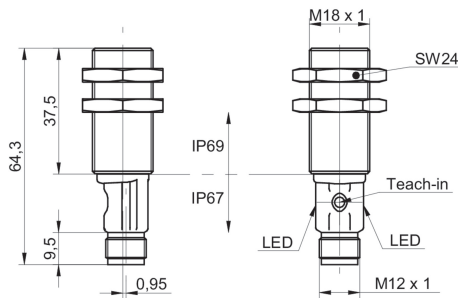
mechanical data

type	cylindrical threaded
housing material	stainless steel (V2A) / TR90
width / diameter	18 mm
height / length	64 mm
connection types	connector M12 5 pin
coating active face	PEEK

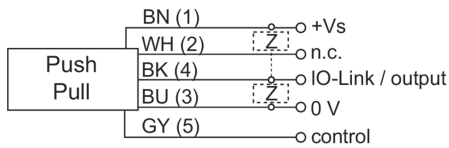
ambient conditions

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

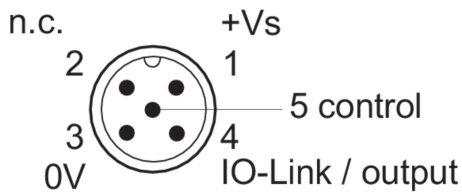
dimension drawing



connection diagram



pin assignment



typical sonic cone profile

