

overview

- 20 ... 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	20 ... 1000 mm
scanning range far limit Sde	20 ... 1000 mm
version	IO-Link
hysteresis typ.	4 % Sde
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
reverse polarity protection	yes

communications interface

interface	IO-Link V1.1
-----------	--------------

communications interface

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

additional data

Class A
distance
excess gain
operating cycles
operating hours
boot cycles
operating voltage
device temperature
histograms
time filters
LED status indicators
output logic
output circuit
counter
beam forming
function of pin 5
deactivate the sensor element
Find Me function

mechanical data

type	cylindrical threaded
------	----------------------

Technical data

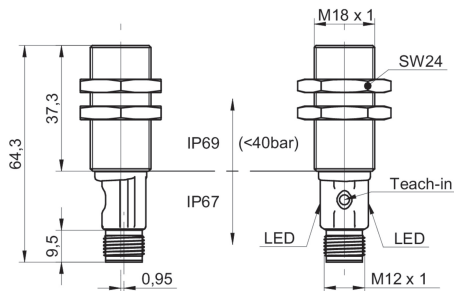
mechanical data

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

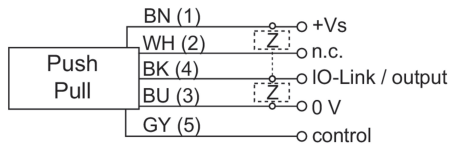
ambient conditions

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

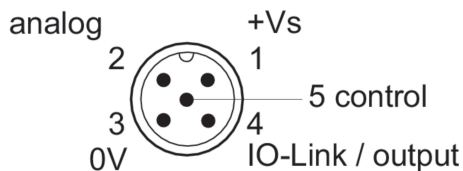
dimension drawing



connection diagram



pin assignment



typical sonic cone profile

