

pico+ ultrasonic sensors



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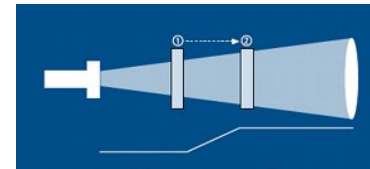
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Description

NEW

An analogue output that has it all

The future belongs to the IO-Link. We are convinced about that. But there is still a long life left for the ultrasonic sensor with analogue output. That is why we have extended the pico+ sensor family with 0–10 voltage outputs and a 4–20 mA current output. The analogue characteristic can be set with the proven microsonic teach-in procedure and the output characteristic changed from the rising characteristic to the falling one. Our link control software on extensive parameterization, of course, also supports the analogue pico+ sensors.



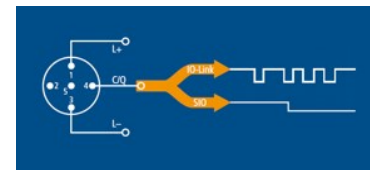
microsonic teach-in for rapid and easy setting of the analogue characteristic

NEW

IO-Link – the new standard

The new IO-Link interface in the pico+ sensors provides us with the requirements to effect continuous communication through all system architecture levels up and into the sensor itself. In this way, both machinery and equipment can be run in a more productive manner.

In the IO-Link mode the distances measured are cyclically transmitted to the master; the IO-Link mode can in future replace an analogue output.

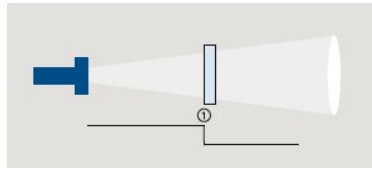


Push-pull output stage makes it possible to change from the SIO mode into the IO-Link mode

> detailed IO-Link info

The three pico+ operating types:

- > Simple detect point
- > Two-way reflective barrier
- > Window mode



Teach-in for a simple detect point

- > Position object to be detected at the required distance
- > Place Pin 5 at +U_B for 3 seconds
- > Then place Pin 5 again at +U_B for 1 second



Teach-in for a two-way reflective barrier with a firmly fitted reflector

- > Place Pin 5 at +U_B for 3 seconds
- > Then place Pin 5 again at +U_B for 10 seconds

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scale drawing	detection zone
1 x Push-Pull	350 mm
operating range design	30 - 250 mm zylindrisch M18 mit radial angeordnetem Ultraschallwandler (90°-Winkelkopf)
operating mode	proximity switch/reflective mode reflective barrier window mode
particularities	90°-Winkelkopf IO-Link
ultrasonic -specific	
means of measurement	echo propagation time measurement
transducer frequency	320 kHz
blind zone	30 mm
operating range	250 mm
maximum range	350 mm
angle of beam spread	please see graphics detection zone
resolution/sampling rate	0.069 mm
reproducibility	± 0.15 %
accuracy	± 1 % (temperature drift internally compensated)
electrical data	
operating voltage U _B	10 - 30 V d.c., reverse polarity protection
voltage ripple	± 10 %
no-load current consumption	≤ 40 mA
type of connection	5-pin M12 initiator plug

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outputs	
output 1	switching output Push-Pull: $I_{max} = 100 \text{ mA}$ ($U_B = 3V$)
switching hysteresis	3 mm
switching frequency	25 Hz
response time	32 ms
delay prior to availability	< 300 ms
inputs	
input 1	com input synchronisation input
housing	
material	PBT
ultrasonic transducer	polyurethane foam, epoxy resin with glass contents
class of protection to EN 60529	IP 67
operating temperature	-25°C to +70°C
storage temperature	-40°C to +85°C
weight	20 g
technical features/characteristics	
temperature compensation	yes
controls	com input Teach-in
scope for settings	LCA-2 with LinkCopy or LinkControl software via IO-Link interface
synchronization	yes
multiplex	yes
indicators	1 x LED green: working, 1 x LED yellow: switch status
particularities	90°-Winkelkopf IO-Link
documentation (download)	
pin assignment	