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Operating Manual

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Ultrasonic sensor with one analogue output

Product Description

The pico+ sensor offers a non-contact measurement of the distance to an object that has to be present within the sensor's detection zone. Depending on the set window limits, a distance-proportional analogue signal is output.

The window limits of the analogue output and its characteristic can be adjusted via Teach-in procedure. Two LEDs indicate the state of the analogue output.

Safety Notes

- Read the operating manual prior to start-up.
- Connection, installation and adjustment works should be carried out by expert personnel only.
- No safety component in accordance with the EU Machine Directive, use in the area of personal and machine protection not permitted

Proper Use

pico+ ultrasonic sensors are used for non-contact detection of objects.

Installation

- → Mount the sensor at the installation site.
- → Connect a connection cable to the M12 device plug, see Fig. 1.

Fig. 1: Pin assignment with view onto sensor plug and colour coding of the microsonic connection cable

Start-Up

- → Connect the power supply.
- → Set the sensor parameters using the Teach-in procedure, see Diagram 1.

Factory Setting

pico+ sensors are delivered factory made with the following settings:

 Rising analogue characteristic curve between the blind zone and the operating range Multifunctional input »Com« set to »Teach-in«

Synchronisation

If the assembly distance falls below the values shown in fig. 2, the internal synchronization should be used. For this purpose set the switched outputs of all sensors in accordance to the diagram »Sensor adjustment with Teachin procedure« at first. Then set the multifunctional output »Com« to »synchronization« (see »Further settings«, Diagram 1). Finally connect pin 5 of the sensors plug of all sensors.

Maintenance

microsonic sensors are maintenancefree. In case of excess caked-on dirt we recommend to clean the white sensor surface.

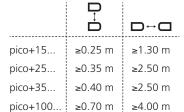
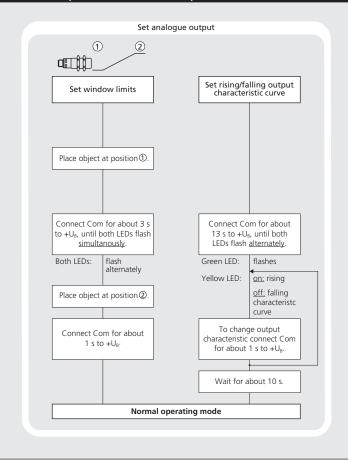


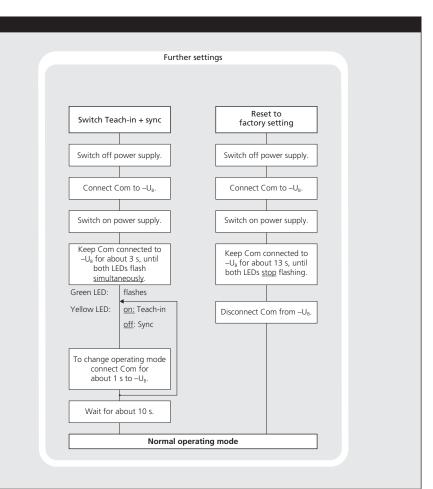
Fig. 2: Assembly distances, indication synchronisation

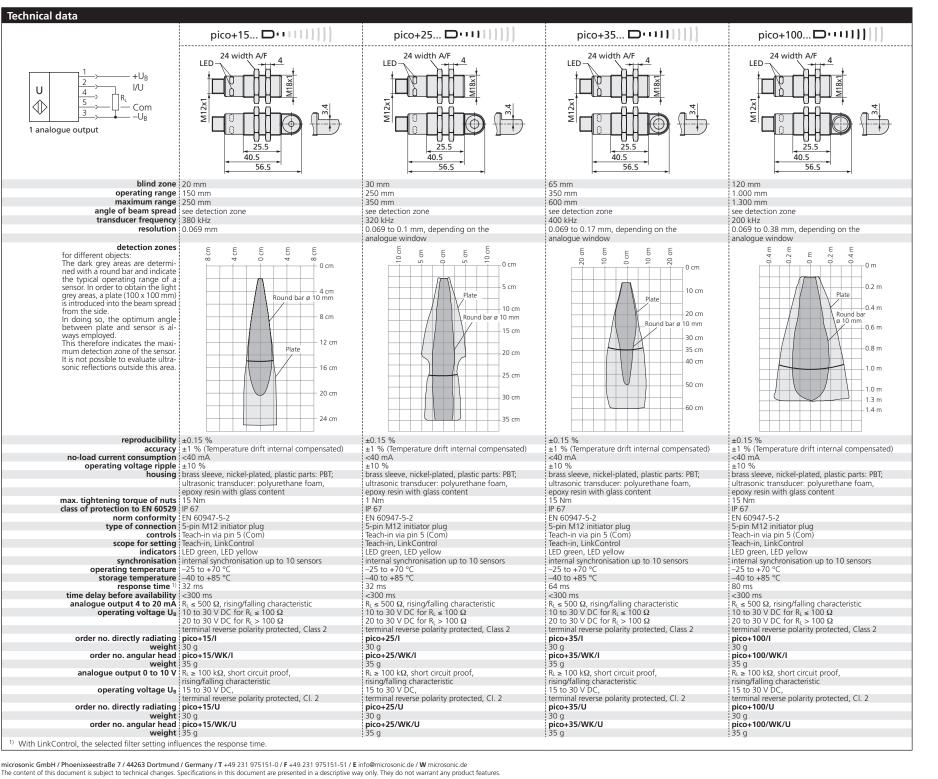
Notes

- The sensors of the pico+ family have a blind zone. Within this zone a distance measurement is not possible.
- Every time the power supply is switched on, the sensor detects its actual operating temperature and transmits it to the internal temperature compensation. The adjusted value is taken over after 120 seconds.
- In the normal operating mode, an illuminated yellow LED signals the object is within the window limits.
- If synchronisation is activated the Teach-in is disabled (see »Further settings«, Diagram 1).
- The sensor can be reset to its factory setting (see »Further settings«, Diagram 1).
- Optionally all Teach-in and additional sensor parameter settings can be adjusted via the LinkControl adapter (optional accessory) and the Link-Control software for Windows[®].

Diagram 1: Set sensor parameters via Teach-in procedure









The proximity switches shall be used with a Listed

(CYJV/7) cable/connector assembly rated mini-mum 32 Vdc, minimum 290 mA, in the final in-

For use only in industrial machinery NFPA 79 applications.

Enclosure Type 1

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