# microsonic



#### **Operating manual**

Ultrasonic Proximity Switch with two antivalent switching outputs ucs-24/CDD/QM ucs-24/CEE/QM

### **Product Description**

The usc sensor offers a non-contact measurement of the distance to an object which must be positioned within the sensor's detection zone. Both switching outputs are set antivalent in dependence of the adjusted detect distance. Via a button, the detect distance and the operating mode can be adjusted (Teach-in). One LED indicates the state of the switching outputs.

Using the LinkControl adapter (optional accessory) and the LinkControl software for Windows<sup>®</sup>, all Teach-in and additional sensor parameter settings can be optionally adjusted.

#### Safety Notes

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

## Installation

- → Mount the sensor at the place of fitting.
- Connect a connection cable to the M12 device plug.

# Set sensor via Teach-in procedure



 Set the parameters of the sensor according to diagram.

#### **Factory Setting**

- Synchronous mode deactivated
- D1 = NCC, D2 = NOC
  Detect points on oper
- Detect points on operating range

# Available Operating Modes

- Operation with one detect pointWindow mode
- Two-way reflective barrier

The two switching outputs always switch antivalent.

#### Synchonisation

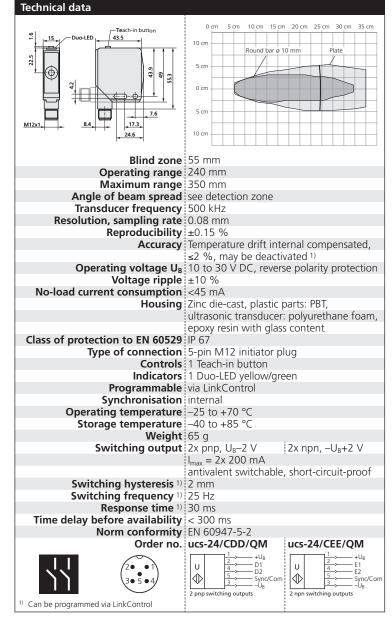
With the synchronous mode activated and an electrical interconnection of the Sync/Com inputs (pin 5), up to 10 sensors can be synchronised.

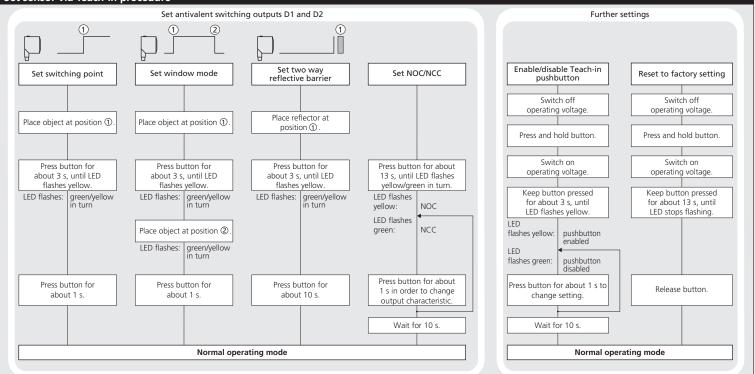
#### Maintenace

microsonic sensors are maintenancefree. With heavy dirt deposits, we recommend a cleaning of the white sensor surface.

#### Notes

- The usc sensor has a blind zone, within which distance measurements are not possible.
- The ucs sensor is equipped with an internal temperature compensation. Due to the sensor's self-heating, the temperature compensation reaches its optimum working point after approx. 30 minutes of operation.
  - In the normal operating mode, a yellow LED signals that the switching output D2 is switched through.
- In the Teach-in mode, the hystereses are reset to factory setting.
- In the »Two-way reflective barrier« operating mode, the reflector is surrounded by a symmetrical window of ±8 % of the distance value.
- If the button is not pressed for 30 seconds during the teach-in setting, the setting made hitherto is deleted.
- The sensor can be reset to its factory setting.





microsonic GmbH / Phoenixseestraße 7 / 44263 Dortmund / Germany / T +49 231 975151-0 / F +49 231 975151-51 / E info@microsonic.de / W microsonic.de The content of this document is subject to technical changes. Specifications in this document are presented in a descriptive way only. They do not warrant any product features.