Simicrosonic



Operating Instructions

ucs-15/CDD/QM ucs-15/CEE/QM

Ultrasonic Proximity Switch with **Two Antivalent Switched Outputs**

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 switched 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 switched outputs.

With the LinkControl adapter, which is available as accessory, all sensor parameters can optionally be set via a PC

Safety Notes

- Read the operating instructions prior to start-up
- Connection, installation and adjustment works may only be carried out by expert personnel.
- No safety component in accordance with the EU Machine Directive.

Installation

- Mount the sensor at the installation site.
- Connect a connection cable to the M12 device plug.

Start-Up

- Connect the power supply. Carry out the adjustment in ac-
- cordance with the diagram.

Factory Setting

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

Operation

Three operating modes are available for both switched outputs:

- Operation with one detect point
- Window mode Two-way reflective barrier

Both switched outputs are antivalent switching outputs.

Synchronisation

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

Maintenance

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

Note

- 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 ap-





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2 pnp switched outputs



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Sync/Com -U_B

Detection zone

89/336/EEC

prox. 30 minutes of operation.

1) Can be programmed with LinkControl

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3•5 •

- In the normal operating mode, a yellow LED signals that the switched output D2 is switched through.
- In the teach-in mode, the hystereses are reset to the factory setting.
- In the »Two-way reflective barrier« operating mode, the reflector is sur-

rounded by a symmetrical window of ± 8 % of the distance value.

2 npn switched outputs

Sync/Com -U_B

- 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 • Hauert 16 • D-44227 Dortmund • Tel: +49 2 31 / 97 51 51-0 • Fax: +49 2 31 / 97 51 51-51 • E-Mail: info@microsonic.de • www.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.

Sensor adjustment with Teach-in procedure