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Operating Manual

mic Ultrasonic Sensors with one switching output

mic-25/D/M mic-35/D/M mic-130/D/M mic-340/D/M mic-600/D/M

Product description

- The mic-sensor with one switching output measures the distance to an object within the detection zone contactless. Depending on the adjusted detect distance the switching output is set.
- The output functions are changeable from NOC to NCC.
- The sensors are adjustable using Teach-in processes via the Comchannel (Pin 5).
- Using the LinkControl adapter (optional accessory) all sensor parameter settings can be adjusted by a Windows® Software.

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, use in the area of personal and machine protection not permitted

The mic-sensors have a blind zone in which distance measurement is not possible. The operating range indicates the distance of the sensor that can be applied with normal reflectors with sufficient function reserve. When using good reflectors, such as a calm water surface, the sensor can also be used up to its maximum range. Objects that strongly absorb (e.g. plastic foam) or diffusely reflect sound (e.g. pebble stones) can also reduce the defined operating range.

Installation

- → Assemble the sensor at the installation location.
- → Plug in the connector cable to the M12 connector, see Fig. 1.

2 • • 1 3 • 5 • 4	\\ \ \	colour
1	+U _B	brown
3	−U _B	blue
4	D	black
2	-	white
5	Com	grey

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

Start-up

- → Connect the power supply.
- → Set detect points via the Teach-in procedure (see Diagram 1)

Factory setting

mic-sensors are delivered factory made with the following settings:

- Switching output on NOC
- Detecting distance at operating range and half operating range
- Maximum detection range set to maximum range

Synchronisation

If the assembly distance of multiple sensors falls below the values shown in Fig. 2 the integrated synchronisation should be used. Connect Sync/Com-channels (pin 5 at the units receptable) of all sensors (10 maximum).

Maintenance

mic-sensors work maintenance free. Small amounts of dirt on the surface do not influence function. Thick layers of dirt and caked-on dirt affect sensor function and therefore must be removed.

Notes

- mic-sensors have internal temperature compensation. Because the sensors heat up on their own, the temperature compensation reaches its optimum working point after approx. 30 minutes of operation.
- During Teach-in mode, the hysteresis loops are set back to factory settings.
- If no signal is detected for 20 seconds during Teach-in procedure the made changes are stored and the sensor returns to normal mode operation.
- You can reset the factory settings at any time, see Diagram 2.

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mic-25	≥0.35 m	≥2.50 m
mic-35	≥0.40 m	≥2.50 m
mic-130	≥1.10 m	≥8.00 m
mic-340	≥2.00 m	≥18.00 m
mic-600	>4.00 m	>30.00 m

Fig. 2: Assembly distances, indicating synchronisation









