Operating manual
mic+ Ultrasonic Sensors with one analogue output and one switched output
mic+25/DIU/TC
mic+35/DIU/TC
mic+600/DIU/TC
mic+340/DIU/TC
mic+600+/DIU/TC
mic+600/DIU/TC
mic+35/DIU/TC
mic+25/DIU/TC
mic+ Ultrasonic Sensors with Operating manual
Set sensor parameters alternatively numerically using LED-display...
...or with the Teach-in procedure

- Adjust detect point
- Adjust window mode
- Adjust two-way reflective barrier
- Set NDC/NCC

Press T1 and T2 simultaneously until »Add« is shown in the LED display.

Press T1 until »IU« is shown and NOC or NCC symbol is displayed.

Place object at position to

Press T1 until »IU« is shown and NOC or NCC symbol is displayed.

Press T1 and T2 simultaneously until »End« is displayed.

Normal mode operation

Teach-in switched output

Useful additional functions in Add-on menu (for experienced users only, settings not required for standard applications)

Start here

Press T1 and T2 simultaneously for about 13 s until »Add« is shown in the LED-display.

Hello

Add

End

Note: Changes in the Add-on menu may impact the sensor function. A6, A7, A8, A10, A11, A12 have influence on the response time of the sensor.

Low power mode

Display mode

Choose current/voltage output

Hysteresis switched output

Measurement filter

Filter strength

Response time

Foregound suppression

Multiplex mode device addressing

Multiplex mode highest address

Measurement range

Calibration display

Detection zone sensitivity

Key lock and factory setting

Activate/deactivate TouchControl

Reset to factory setting

Turn supply voltage ON

Turn supply voltage OFF

While pressing T1 turn supply voltage ON until«on» or «off» is displayed

To activate or deactivate press T1

To activate or deactivate press T1

Normal mode operation
### Technical data

<table>
<thead>
<tr>
<th>mic+25...</th>
<th>mic+35...</th>
<th>mic+130...</th>
<th>mic+340...</th>
<th>mic+600...</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Blind zone</strong></td>
<td>0 to 30 mm</td>
<td>0 to 65 mm</td>
<td>0 to 200 mm</td>
<td>0 to 350 mm</td>
</tr>
<tr>
<td><strong>Operating range</strong></td>
<td>250 mm</td>
<td>350 mm</td>
<td>1,300 mm</td>
<td>3,400 mm</td>
</tr>
<tr>
<td><strong>Angle of beam spread</strong></td>
<td>Please see detection zone</td>
<td>Please see detection zone</td>
<td>Please see detection zone</td>
<td>Please see detection zone</td>
</tr>
<tr>
<td><strong>Resolution, sampling rate</strong></td>
<td>320 kHz</td>
<td>400 kHz</td>
<td>200 kHz</td>
<td>120 kHz</td>
</tr>
<tr>
<td><strong>Detection zone</strong></td>
<td>for different objects</td>
<td>for different objects</td>
<td>for different objects</td>
<td>for different objects</td>
</tr>
<tr>
<td><strong>Response time</strong></td>
<td>&lt; 300 ms</td>
<td>64 ms</td>
<td>92 ms</td>
<td>200 ms</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>± 15 %</td>
<td>± 15 %</td>
<td>± 15 %</td>
<td>± 15 %</td>
</tr>
<tr>
<td><strong>Operating voltage Uop</strong></td>
<td>+24 V to 30 V DC, short-circuit-proof, Class 2</td>
<td>+24 V to 30 V DC, short-circuit-proof, Class 2</td>
<td>+24 V to 30 V DC, short-circuit-proof, Class 2</td>
<td>+24 V to 30 V DC, short-circuit-proof, Class 2</td>
</tr>
<tr>
<td><strong>No-load supply current</strong></td>
<td>100 mA</td>
<td>80 mA</td>
<td>80 mA</td>
<td>80 mA</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>150 g</td>
<td>110 g</td>
<td>150 g</td>
<td>200 g</td>
</tr>
<tr>
<td><strong>Switching frequency</strong></td>
<td>32 kHz</td>
<td>25 kHz</td>
<td>21 kHz</td>
<td>20 kHz</td>
</tr>
<tr>
<td><strong>Response time (t2)</strong></td>
<td>64 ms</td>
<td>92 ms</td>
<td>92 ms</td>
<td>92 ms</td>
</tr>
<tr>
<td><strong>Time delay before availability</strong></td>
<td>&lt; 300 ms</td>
<td>&lt; 300 ms</td>
<td>&lt; 300 ms</td>
<td>&lt; 300 ms</td>
</tr>
</tbody>
</table>

1) Can be programmed with TouchControl and LinkControl.

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.