ωιςιογουις Product description The lcs+ sensor offers a non-contact



Operating manual

Ultrasonic sensor with one analogue output

lcs+130/IU lcs+340/IU lcs+600/IU

adjusted with the Teach-in procedure. One 2-colour LED indicates the state of the analogue output. The sensor automatically detects the load put to the analogue output and switches to current output or voltage output respectively. Optionally all Teach-in and additional sensor parameter settings can be made using the LinkControl Adapter LCA-2 (optional accessory) and the LinkContol software for windows.

measurement of the distance to an ob-

ject that has to be present within the

sensor's detection zone. Depending on

the set window limits, a distance-pro-

The window limits of the analogue

output and its characteristic can be

portional analogue signal is output.

Safety instructions

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

Use for intended purpose only

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

- Mount the sensor at the place of fitting
- M12 device plug, see fig. 1.
- Connect the power supply.

■ Carry out sensor adjustment in accordance with the diagram.

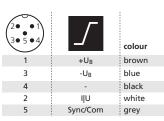


Fig. 1: Pin assignment with view onto sensor plug and colour coding of the microsonic connection cable

Factory Setting

- Rising analogue characteristic curve. Window limits between blind zone
- and operating range.

Synchronisation

If under multiple sensor operation the assembly distance falls below the values shown in fig. 2, the internal synchronisation should be used. For this purpose interconnect each pin 5 of maximum 10 sensors to be synchronised.



□ ≥ 1.10 m ≥ 8.00 m ≥ 2.00 m ≥ 18.00 m □ 24.00 m ≥ 30.00 m

Fig. 2: Assembly distances

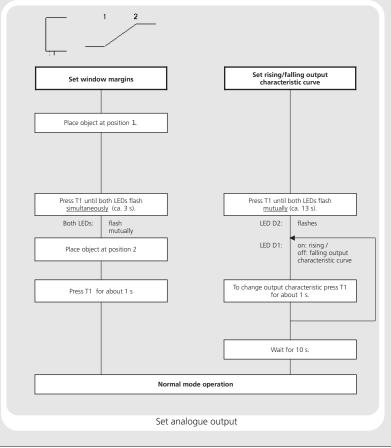
we recommend cleaning the white sensor surface. Notes

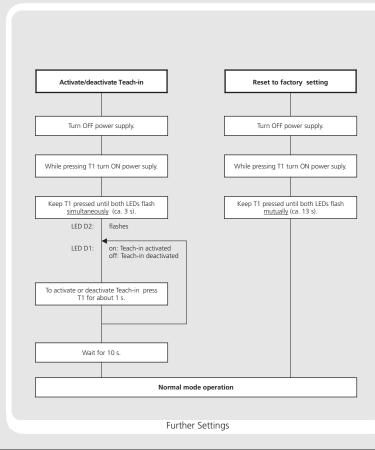
free. In case of excess caked-on dirt

- The sensors of the lcs+ family have a blind zone, within which a distance measurement is not possible.
- The lcs+ sensors are equipped with an internal temperature compensation. Due to the sensors self heating, the temperature compensation reaches its optimum working-point after approx. 30 minutes of operation.
- The load put to the analogue output is detected automatically when turning power supply on.
- If an object is within the set window margins of the analogue output, then LED D1 lights up green, if the object is outside the window margins, then LED D1 lights up red.
- If no push-buttons are pressed for 20 seconds during parameter setting mode the made changes are stored and the sensor returns to normal mode operation.
- The sensor can be reset to its factory setting (see »Sensor adjustment with Teach-in procedure«).
- Optionally all Teach-in and additional sensor parameter settings can be made using the LinkControl adapter (optional accessory) and the LinkControl software for windows

(e 🖄	2014/30/
	Enclosure Type For use only in industr machinery NFPA 79 applicatior
(CYJV/7) cab	v switches shall be used with a List le/connector assembly rated mi c, minimum 290 mA, in the final

Sensor adjustment with Teach-in procedure





Installation

- Connect a connection cable to the
- Start-up

Maintenance microsonic sensors are maintenance-

