

Product description

The lcs+ sensor offers a non-contact measurement of the distance to an object which must be positioned within the sensor's detection zone. The switched outputs are set conditional upon the adjusted detect distances.

Via the Teach-in procedure, the detect distances and operating modes can be adjusted. Two LEDs indicate operation and the state of the switched outputs.

Optionally all Teach-in and additional sensor parameter settings can be made using the LinkControl Adapter LCA-2 (optional accessory) and the LinkControl software for windows.

Safety instructions

- Read the operating instructions 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 for intended purpose only

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

Installation

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

Start-up

- Connect the power supply.
- Carry out sensor adjustment in accordance with the diagram.

	1	+U _B	brown
	3	-U _B	blue
	4	D2	black
	2	D1	white
	5	Sync/Com	grey

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

Factory setting

- Switched output on NOC.
- Detect distance at operating range and half 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 max. 10 sensors.

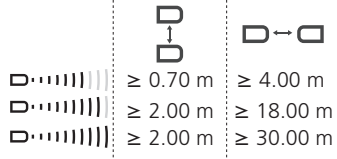


Fig. 2: Assembly distances

Maintenance

microsonic sensors are maintenance-free. In case of excess caked-on dirt we recommend cleaning the white sensor surface

- ## Notes
- 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 sensor's self heating, the temperature compensation reaches its optimum working-point after approx. 30 minutes of operation.
 - During normal operation a yellow LED signals that the corresponding output has connected.
 - If no push-buttons are pressed for 20 seconds during parameter setting mode the made changes are stored and the sensor returns to

Operating manual

Ultrasonic proximity switch with two switched outputs

- lcs+100/DD
- lcs+340/DD
- lcs+600/DD

