



Operating Instructions

lpc-25/CDI/M18 . lpc-25/CDU/M18

Ultrasonic Proximity Switch with Analogue Output and Switched Output

Product Description

The lpc sensor offers a non-contact measurement of the distance to an object which must be positioned within the sensor's detection zone. In dependence of the set window limits, a distance-proportional analogue signal is output and, in dependence of the detect point, the switched output is set.

Via the Syn/Com input (pin 5), the window limits of the analogue output, the switched output and the operating mode can be adjusted (teach-in). Two LEDs indicate all states

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 accordance with the diagram.

Factory Setting

- Synchronous mode deactivated
- Switched output on NOC
- Detect point on operating range
- Rising analogue characteristic curve between the blind zone and the operating range

Operation

Three operating modes are available for the switched output:

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

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 maintenance-free With heavy dirt deposits, we recommend a cleaning of the white sensor surface.

Note

- The lpc sensor has a blind zone. within which distance measurements are not possible.
- The lpc sensor is 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.
- In the normal operating mode, an illuminated LED signals the switched output is switched through or that the object is positioned inside the



¹⁾ Can be programmed with LinkContro

- range of the analogue window.
- In the teach-in mode, the hysteresis of the switched output is reset to the factory setting
- In the synchronous mode, an adjustment via teach-in is not possible.
- In the »Two-way reflective barrier« operating mode, the reflector is sur-

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

- If no signal is transmitted to the Sync/Com input for 30 seconds during the teach-in setting, the settings made hitherto are deleted.
- The sensor can be reset to its factory setting