# **WICLOLOUIC**



## Operating Instructions

lpc-25/PK/CI/M18E lpc-25/PK/CU/M18E

Ultrasonic Proximity Switch with one analogue 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.
- The ultrasonic transducer surface of the lpc-25/PK... sensor is laminated with a PEEK film. The transducer itself is sealed against the housing by a PTFE joint ring. This composition ensures a high resitance against many aggressive substances.
- Via the Syn/Com input (pin 5), the Connect a connection cable to the window limits of the analogue output and its characteristic can be adjusted (teach-in). Two LEDs indicate the state of the output.
- 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 installa-
- M12 device plug.

2 • 1 3 • 5 • 4		colour
1	+U <sub>B</sub>	brown
3	-U <sub>B</sub>	blue
4	-	black
2	IĮU	white
5	Sync/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.
- accordance with the diagram

## Factory Settings

- Synchronous mode deactivated
- Rising analogue characteristic curve between the blind zone and the operating range

## 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 maintenancefree. With heavy dirt deposits, we recommend a cleaning of the laminated sensor surface.

### Note

- As a result of the design the assembly of PEEK film and PTFE joint ring is not gas-proof.
- The chemical resistance has to be tested experimentally if necessary.
- 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 that the object is positioned inside the range of the analogue window.
- In the synchronous mode, an adjustment via teach-in is not possible.
- 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.

- Carry out the adjustment in







