

- 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 Settings

- Synchronous mode deactivated
- Switched outputs on NOC
- Detect points at 150 and 250 mm

Operation

Three operating modes are available for both switched outputs:

- 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.

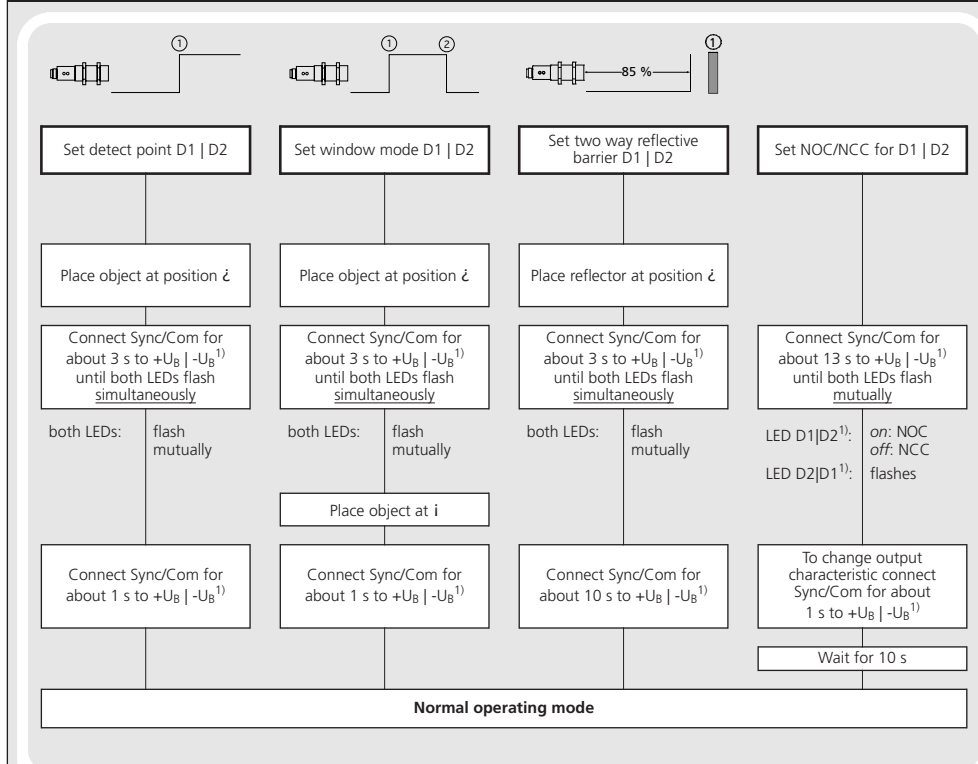
Note

- The Ipc sensor has a blind zone, within which distance measurements are not possible.
- The Ipc 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 corresponding switched output is switched through.

Installation

- Mount the sensor at the installation site.

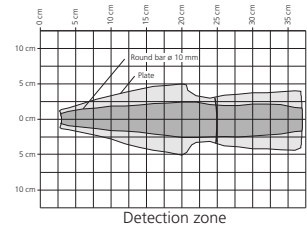
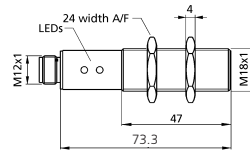
Sensor adjustment with Teach-in procedure



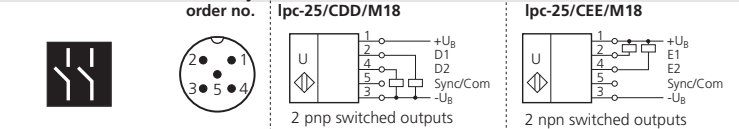
Set switched output D1 and D2

¹⁾ To set up D1 connect Sync/Com with +U_B, LED D1 displays the state of the switched output. To set up D2 connect Sync/Com with -U_B, LED D2 displays the state of the switched output.

Technical data

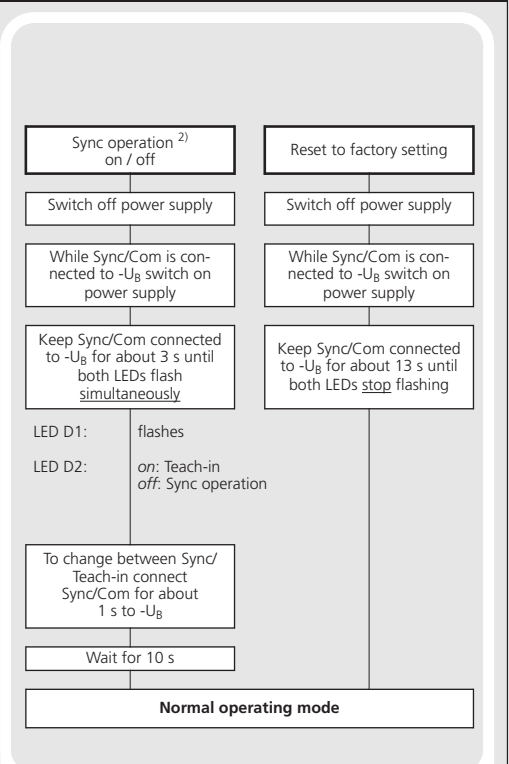


| | |
|---|---|
| blind zone | 30 mm |
| operating range | 250 mm |
| maximum range | 350 mm |
| angle of beam spread | See detection zone |
| transducer frequency | 320 kHz |
| resolution, sampling rate | 0.08 mm |
| reproducibility | ± 0,15 % |
| accuracy | Temperature drift internal compensated, ≤ 2 % may be deactivated ¹⁾ |
| operating voltage U_B | 10 - 30 V DC, reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | < 40 mA |
| housing | Brass sleeve, nickel-plated, plastic parts: PBT, ultrasonic transducer: polyurethane foam, epoxy resin with glass content |
| class of protection to EN 60 529 | IP 67 |
| type of connection | 5-pin M12 initiator plug, brass, nickel-plated |
| controls | Yes, Sync/Com input |
| indicators | 2 yellow LEDs |
| programmable | Yes, LinkControl |
| synchronization | Yes, internal |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 65 g |
| switched output | 2 x pnp, U _B -2 V ; 2 x npn, -U _B +2 V |
| | I _{max} = 2 x 200 mA |
| | switchable NOC/NCC, short-circuit-proof |
| switching hysteresis ¹⁾ | 2 mm |
| switching frequency ¹⁾ | 25 Hz |
| response time ¹⁾ | 24 ms |
| time delay before availability | < 300 ms |
| norm conformity | EN 60947-5-2 |



¹⁾ Can be programmed with LinkControl

- In the teach-in mode, the hystereses are reset to the factory setting.
- In the synchronous mode, an adjustment of the detect points is not possible.
- In the »Two-way reflective barrier« operating mode, the object has to be positioned within the range of 0-85% of the set distance.
- 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.



Further settings

²⁾ If sync operation is switched on, teach-in is switched off.

