

- 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.

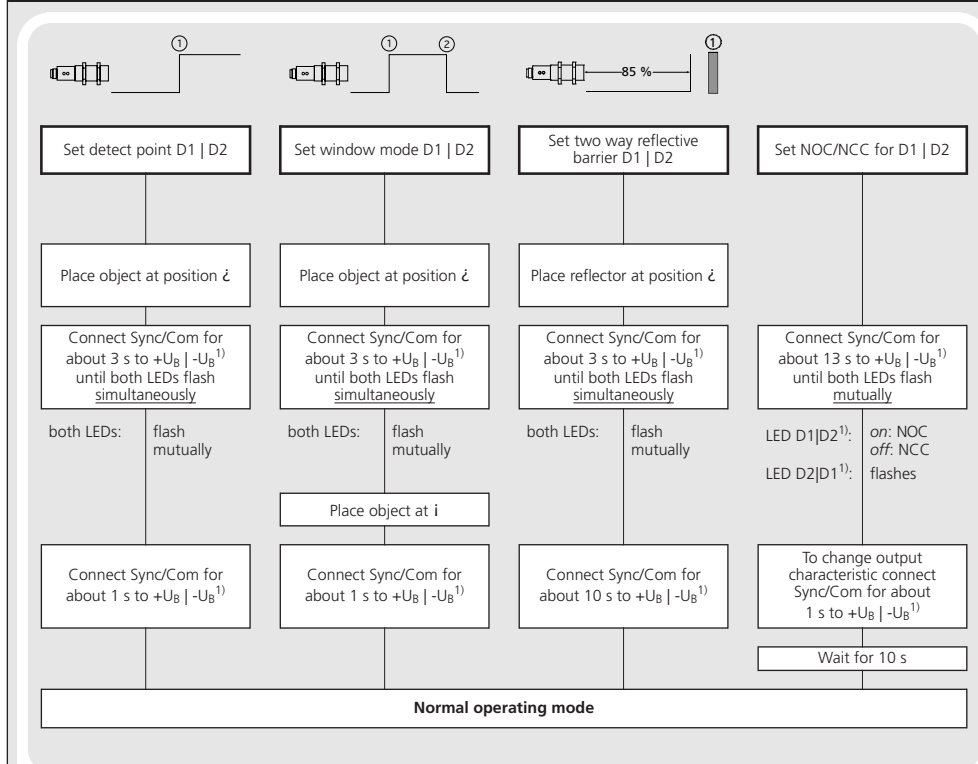
Note

- 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

2014/30/EU
CE

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
order no.	Ipc-25/CDD/M18 ; Ipc-25/CEE/M18

2 pnp switched outputs

2 npn switched outputs

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.