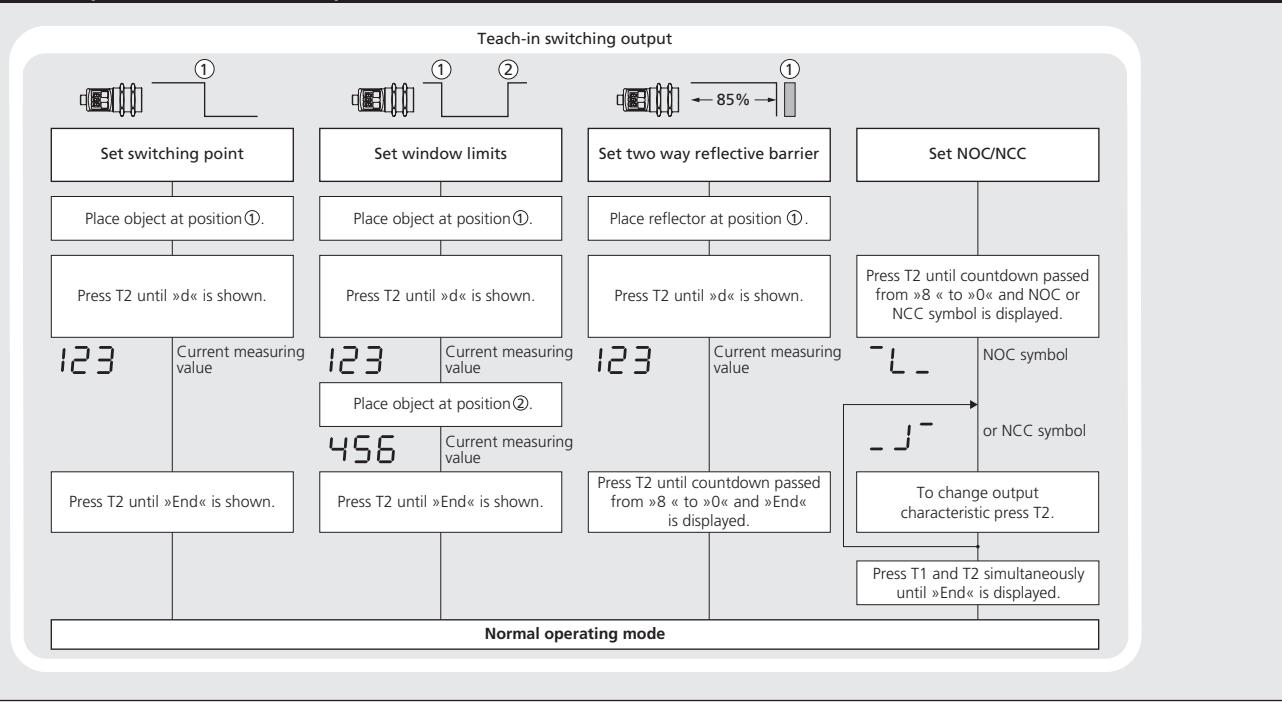




Diagram 2: Set sensor parameters via Teach-in procedure



### Diagram 3: Key lock and factory setting

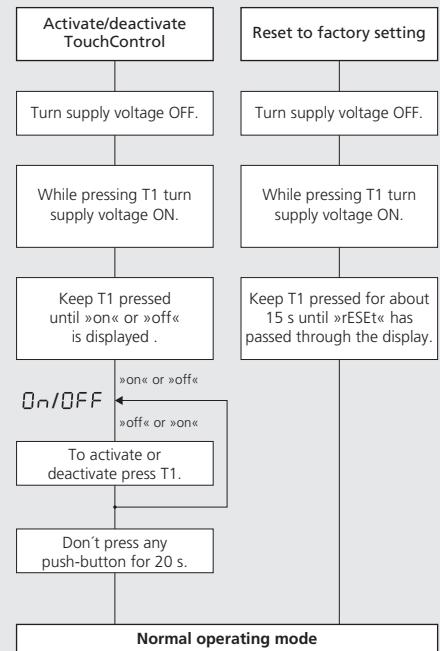
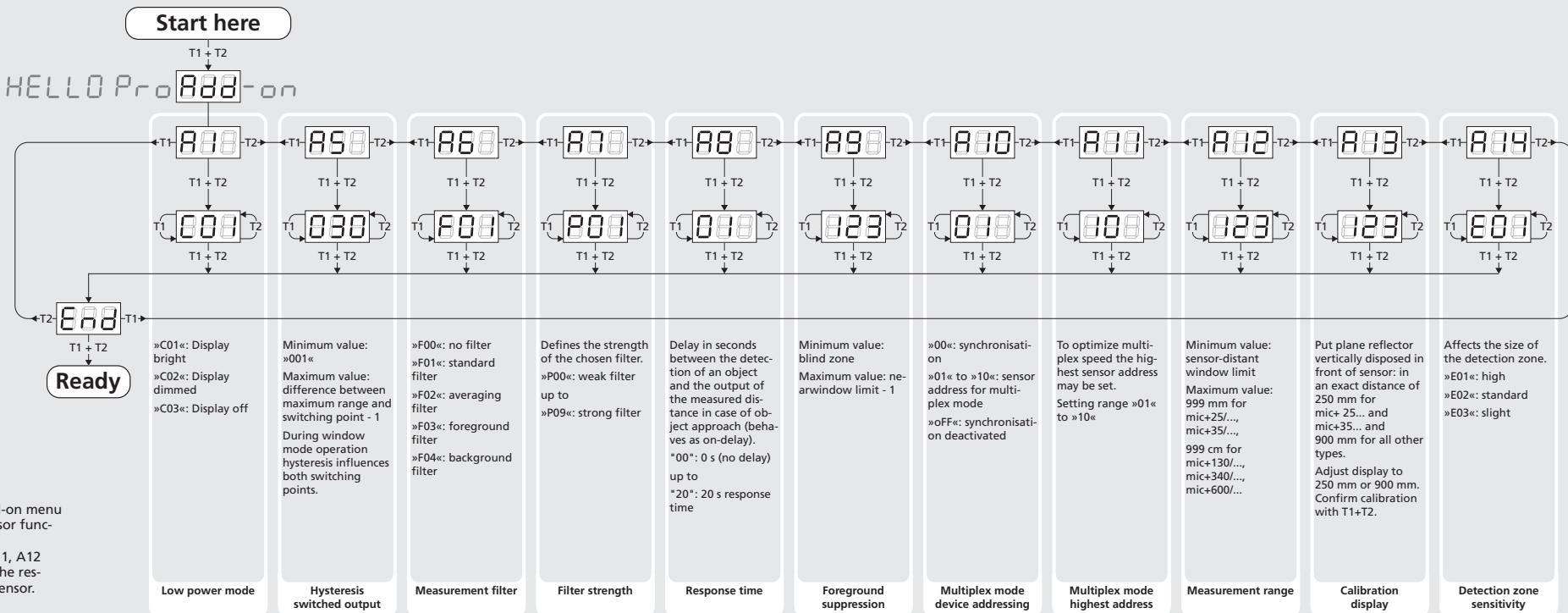
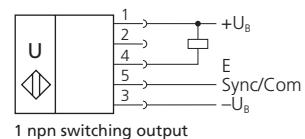
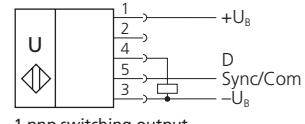


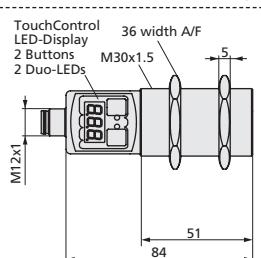
Diagram 4: Useful additional functions in Add-on menu (for experienced users only, settings not required for standard applications)



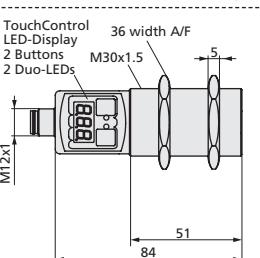
## Technical data



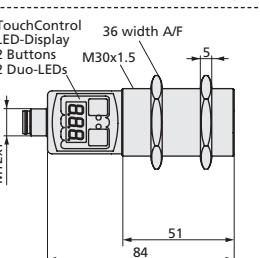
mic+25...



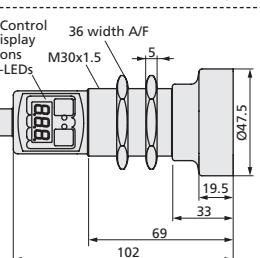
mic+35...



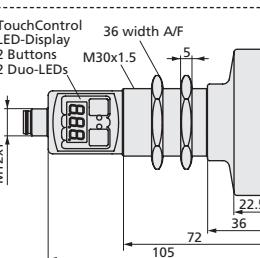
mic+130...



mic+340...



mic+600...



blind zone

0 to 30 mm

250 mm

350 mm

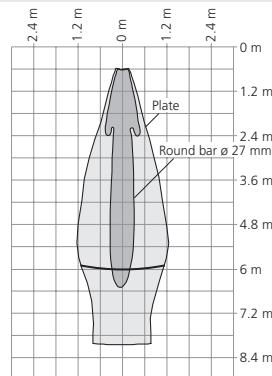
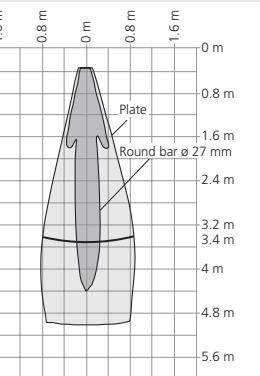
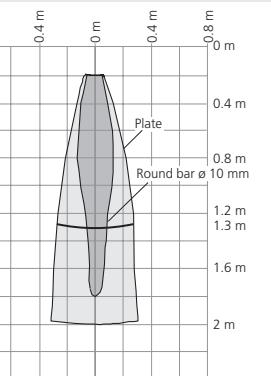
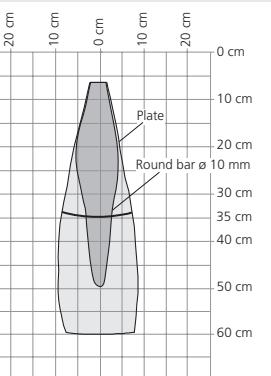
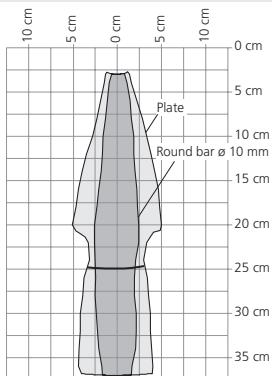
see detection zone

320 kHz

0.025 mm

detection zones

for different objects:  
The dark grey areas represent the zone where it is easy to recognise the normal reflector (round bar). This indicates the typical operating range of the sensors. The light grey areas represent the zone where a very large reflector – for instance a plate – can still be recognised. The requirement here is for an optimum alignment to the sensor. It is not possible to evaluate ultrasonic reflections outside this area.



reproducibility

accuracy

±0.15 % ±1 % (Temperature drift internal compensated, may be deactivated<sup>3)</sup>, 0.17%/K without compensation)operating voltage  $U_B$ 

9 to 30 V DC, short-circuit-proof, Class 2

voltage ripple

±10 %

no-load supply current

≤ 80 mA

housing

Brass sleeve, nickel-plated, plastic parts: PBT, TPU; Ultrasonic transducer: polyurethane foam, epoxy resin with glass content

IP 67

EN 60947-5-2

5-pin initiator plug, PBT

2 push-buttons (TouchControl)

3-digit LED display, 2 three-colour LEDs with TouchControl and LinkControl

operating temperature

-25 to +70 °C

storage temperature

-40 to +85 °C

weight

150 g

switching hysteresis<sup>1)</sup>

3 mm

switching frequency<sup>2)</sup>

25 Hz

response time<sup>2)</sup>

32 ms

time delay before availability

&lt;300 ms

order No.

mic+25/D/TC

pnp,  $U_B$  - 2 V,  $I_{max}$  = 200 mA

switchable NOC/NCC, short-circuit-proof

switching output

mic+25/E/TC

pnp,  $-U_B$  + 2 V,  $I_{max}$  = 200 mA

switchable NOC/NCC, short-circuit-proof

±0.15 %

±1 % (Temperature drift internal compensated, may be deactivated<sup>3)</sup>, 0.17%/K without compensation)

9 to 30 V DC, short-circuit-proof, Class 2

±10 %

≤ 80 mA

Brass sleeve, nickel-plated, plastic parts: PBT, TPU; Ultrasonic transducer: polyurethane foam, epoxy resin with glass content

IP 67

EN 60947-5-2

5-pin initiator plug, PBT

2 push-buttons (TouchControl)

3-digit LED display, 2 three-colour LEDs with TouchControl and LinkControl

-25 to +70 °C

-40 to +85 °C

150 g

5 mm

12 Hz

64 ms

&lt;300 ms

mic+35/D/TC

pnp,  $U_B$  - 2 V,  $I_{max}$  = 200 mA

switchable NOC/NCC, short-circuit-proof

switching output

mic+35/E/TC

pnp,  $-U_B$  + 2 V,  $I_{max}$  = 200 mA

switchable NOC/NCC, short-circuit-proof

±0.15 %

±1 % (Temperature drift internal compensated, may be deactivated<sup>3)</sup>, 0.17%/K without compensation)

9 to 30 V DC, short-circuit-proof, Class 2

±10 %

≤ 80 mA

Brass sleeve, nickel-plated, plastic parts: PBT, TPU; Ultrasonic transducer: polyurethane foam, epoxy resin with glass content

IP 67

EN 60947-5-2

5-pin initiator plug, PBT

2 push-buttons (TouchControl)

3-digit LED display, 2 three-colour LEDs with TouchControl and LinkControl

-25 to +70 °C

-40 to +85 °C

150 g

20 mm

8 Hz

92 ms

&lt;300 ms

mic+130/D/TC

pnp,  $U_B$  - 2 V,  $I_{max}$  = 200 mA

switchable NOC/NCC, short-circuit-proof

switching output

mic+130/E/TC

pnp,  $-U_B$  + 2 V,  $I_{max}$  = 200 mA

switchable NOC/NCC, short-circuit-proof

±0.15 %

±1 % (Temperature drift internal compensated, may be deactivated<sup>3)</sup>, 0.17%/K without compensation)

9 to 30 V DC, short-circuit-proof, Class 2

±10 %

≤ 80 mA

Brass sleeve, nickel-plated, plastic parts: PBT, TPU; Ultrasonic transducer: polyurethane foam, epoxy resin with glass content

IP 67

EN 60947-5-2

5-pin initiator plug, PBT

2 push-buttons (TouchControl)

3-digit LED display, 2 three-colour LEDs with TouchControl and LinkControl

-25 to +70 °C

-40 to +85 °C

210 g

50 mm

4 Hz

172 ms

&lt;380 ms

mic+340/D/TC

pnp,  $U_B$  - 2 V,  $I_{max}$  = 200 mA

switchable NOC/NCC, short-circuit-proof

switching output

mic+340/E/TC

pnp,  $-U_B$  + 2 V,  $I_{max}$  = 200 mA

switchable NOC/NCC, short-circuit-proof

±0.15 %

±1 % (Temperature drift internal compensated, may be deactivated<sup>3)</sup>, 0.17%/K without compensation)

9 to 30 V DC, short-circuit-proof, Class 2

±10 %

≤ 80 mA

Brass sleeve, nickel-plated, plastic parts: PBT, TPU; Ultrasonic transducer: polyurethane foam, epoxy resin with glass content

IP 67

EN 60947-5-2

5-pin initiator plug, PBT

2 push-buttons (TouchControl)

3-digit LED display, 2 three-colour LEDs with TouchControl and LinkControl

-25 to +70 °C

-40 to +85 °C

270 g

100 mm

3 Hz

240 ms

&lt;450 ms

mic+600/D/TC

pnp,  $U_B$  - 2 V,  $I_{max}$  = 200 mA

switchable NOC/NCC, short-circuit-proof

switching output

mic+600/E/TC

pnp,  $-U_B$  + 2 V,  $I_{max}$  = 200 mA

switchable NOC/NCC, short-circuit-proof

<sup>1)</sup> Can be programmed via TouchControl and LinkControl. <sup>2)</sup> With TouchControl and LinkControl, the selected filter setting and the maximum range influence the switching frequency and the response time.

<sup>3)</sup> Can be deactivated via LinkControl.



Enclosure Type 1  
For use only in industrial  
machinery NFPA 79 applications.  
The proximity switches shall be used with a  
Listed (CY/77) cable/connector assembly ra-  
ted minimum 32 Vdc, minimum 290 mA, in  
the final installation.

Registration no. 75330-19  
Approved on  
June 25th, 2019