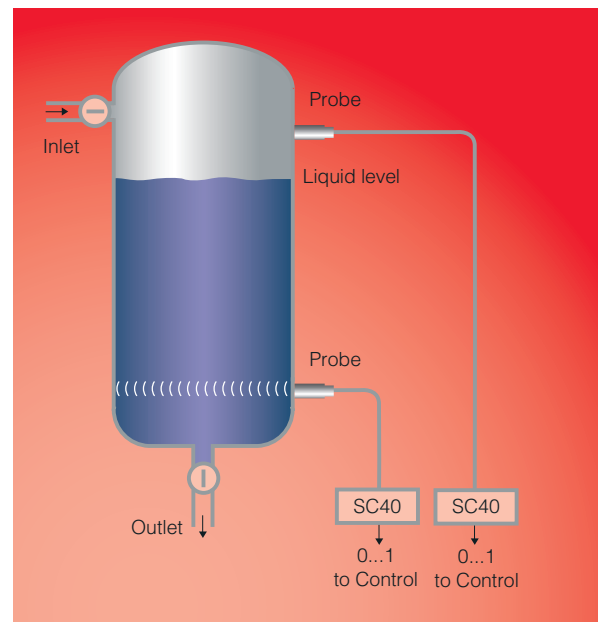




# NON-INTRUSIVE LEVEL CONTROL for liquids

SUCCESSFUL DETECTION  
THROUGH THE WALL



**SONOCONTROL 40**

# SONOCONTROL 40

## Ultrasonic Limit Switch



### LEVEL CONTROL THROUGH THE WALL

The intelligent ultrasonic limit switch SONOCONTROL 40 controls the level of liquids and liquid gases. The non-invasive level control system through the wall, consisting of probe, fastening, couplant and evaluation device, is quick, reliable and cost-effective.



#### Advantages:

- Easy installation from the outside without putting a hole into the tank. Financial losses due to interruptions and re-certifications can be avoided.
- No contact between probes and liquids.
- High pressure or frothing on the surface do not affect the device operations.
- Liquid levels in pipes and tanks of diameters up to 20 m can be detected without any difficulty.

#### Fields of application:

Limit control in liquids and liquid gases, ride-height control, full-/empty signalling, protection against dry running, position control, ice level control, gas-, air bubble and solid detection

#### Innovation:

The compact configuration of the ultrasonic limit switch, containing sender and amplifier, ensures an optimal operating mode. The new evaluation method of the device leads to increased system reliability. Standard applications allow a plug-and-play operation. An additional software facilitates the adaption to specific applications.

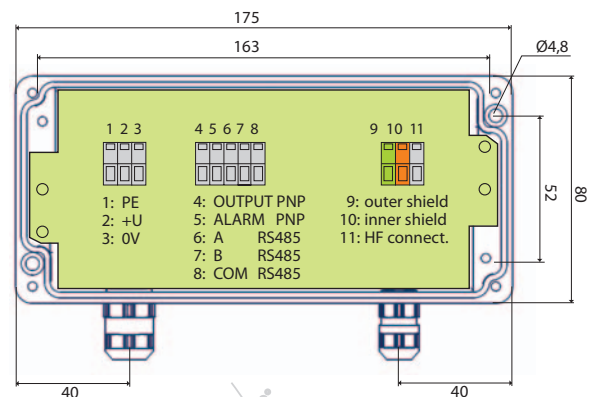
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Hindhøj 82  
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#### Technical Data

|                         |   |
|-------------------------|---|
| Measuring principle:    | Non-intrusive ultrasonic pulse-echo-technique   |
| Components:             | SONOCONTROL 40, probe with cable, fastening, couplant   |
| Housing:                | Aluminium die casting, IP65<br>80 x 175 x 57 mm, 250 g  |
| Fastening:              | At the wall   |
| Storage temperature:    | -40 ... +70 °C  |
| Working temperature:    | -20 ... +70 °C  |
| Connections:            | Cable clamps (0.5 mm <sup>2</sup> to 2.5 mm <sup>2</sup> )<br>Cable gland M 16 (operating voltage + switching output), cable diameter of 4,5 mm ... 10 mm; Cable gland M 12 (probe) |
| Connection Cable:       | < 10 m from probe to SONOCONTROL 40, 3 m standard   |
| Power supply:           | 12...36 VDC, max. 280 mA, max. ripple 10%, inverse polarity protection, overvoltage protection  |
| Switching output:       | 2 x PNP, max. switching current of 100 mA, switching voltage = operating voltage  |
| Status indication:      | Integrated LED on printed circuit board   |
| Interface:              | RS485 (parameterization, synchronization)   |
| Tank or pipe diameter:  | 10 mm to 20 m (depending on the acoustic damping characteristic of the liquid)  |
| Tank or pipe material:  | Stainless steel, steel, enamelled steel, other metals, glass, plastics  |
| Fastening of the probe: | Outside of the tank or pipe   |
| Accessories:            | Mains adapter, USB programming adaptor, start up assistant  |
| Probes:                 | According to various applications and specifications we offer different types of probes   |

| Probe with cable                        | E04   | E10    | E01     | E03  | E11    | E20     | E22  |
|---|-------|--------|---------|------|--------|---------|------|
| Probe with bushing                      | E05   |        | E02     |      |        | E21     |      |
| Thread                                  | M18x1 |        | M30x1.5 |      |        | M45x1.5 |      |
| Maximum tank temperature                | 80 °C | 135 °C | 80 °C   |      | 135 °C | 80 °C   |      |
| Ex application                          |       |        |         | Ex m |        |         | Ex m |
| Bigger tanks or pipes / damping mediums |       |        | x       | x    | x      | x       | x    |
| Smaller tanks / pipes                   | x     | x      | x       | x    | x      |         |      |
| Protection class                        | IP68  |        |         |      |        |         |      |

Our sales team is looking forward to advice you.



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