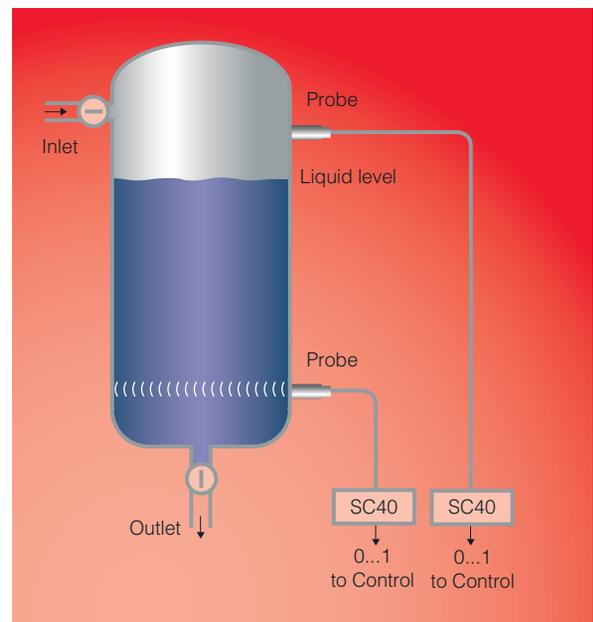




NON-INTRUSIVE LEVEL CONTROL for liquids

SUCCESSFUL DETECTION
THROUGH THE WALL



SONOCONTROL 40

SONOTEC 

*Quick
Reliable
Cost-effective*

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:

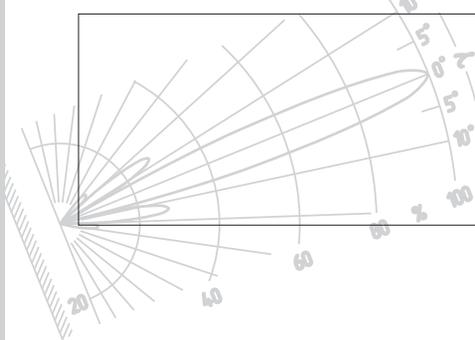
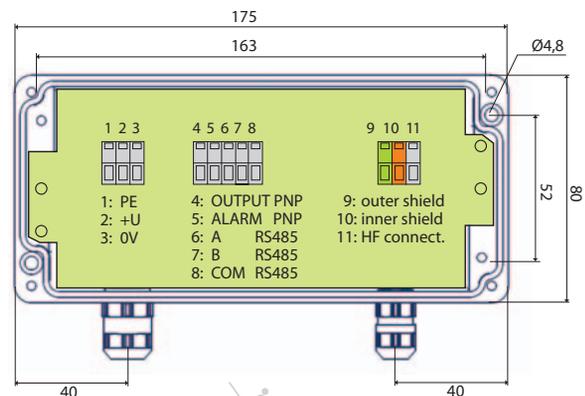
The compact configuration of the ultrasonic limit switch, containing sender and amplifier, ensures an optimal operating mode. The new evaluation method of the device leads to increased system reliability. Standard applications allow a plug-and-play operation. An additional software facilitates the adaption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

Technical Data

Measuring principle:	Non-intrusive ultrasonic pulse-echo-technique
Components:	SONOCONTROL 40, probe with cable, fastening, couplant
Housing:	Aluminium die casting, IP65 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 ² to 2.5 mm ²) 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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