

SpotCheck 1000

Non-invasive Point Level Detector for Tanks & Pipes



Data sheet : SC1000/2012

SpotCheck is a liquid level switch for use in applications where avoiding contact is vital. The sensor is clamped externally to the wall of the pipe or vessel. The method of measurement is suitable for steel, plastic or glass up to 50mm thick.

Working Principle

SpotCheck uses an ultrasonic "footprint" to determine the presence or absence of liquid inside a tank or pipe. It provides two wire, 24Vdc operation with an appropriate current sensor but also incorporates a relay switch output.

The piezo-electronic transducer emits ultrasonic energy into the wall of the tanks or pipe, which acts as a wave-guide. The electronics detect the difference between "wet", "dry" and "fault" conditions.

Typical Applications

- Tank high / low level alarm
- Non contact level switch
- Overfill procedure
- Pump run dry protection
- Pig Detection
- Tanker off-load pump control
- Liquids with suspended solids and free gas
- Detect liquid / foam interface
- Aggressive or toxic liquids, effluent, sewage etc.
- Hygienic level switch for hygienic liquids, foodstuffs, pharmaceuticals, chemicals
- Flowing and static liquids
- High or low pressure pipes or vessels
- Detect presence of spray e.g. Tank washing

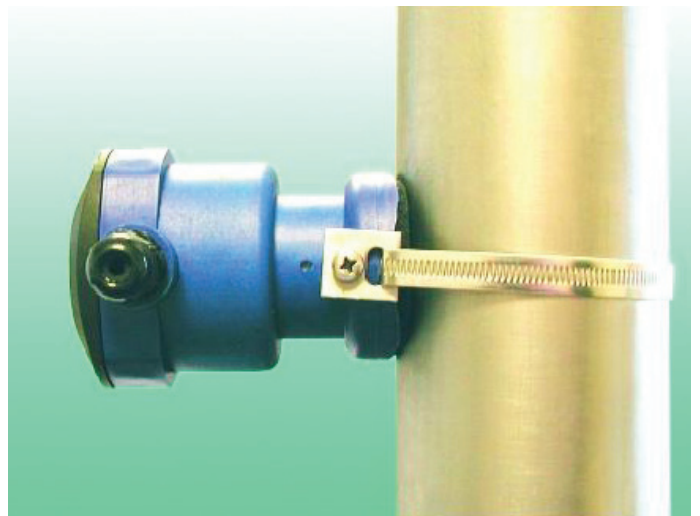
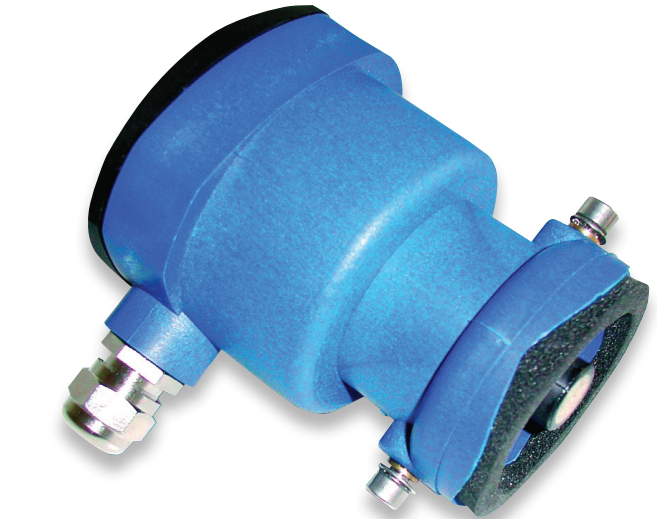
Installation / Set-up

SpotCheck is easy to install and set-up. Simply push the calibrate button when the sensor is uncovered. A red / green / amber LED gives an indication of status.

Series 1000 - Standard Version

The Series 1000 SpotCheck is powered by 24Vdc and includes a single relay output. The sensor also modulates the current draw which allows the optio of two wire operation with a current sensor to provide the alarm signal.

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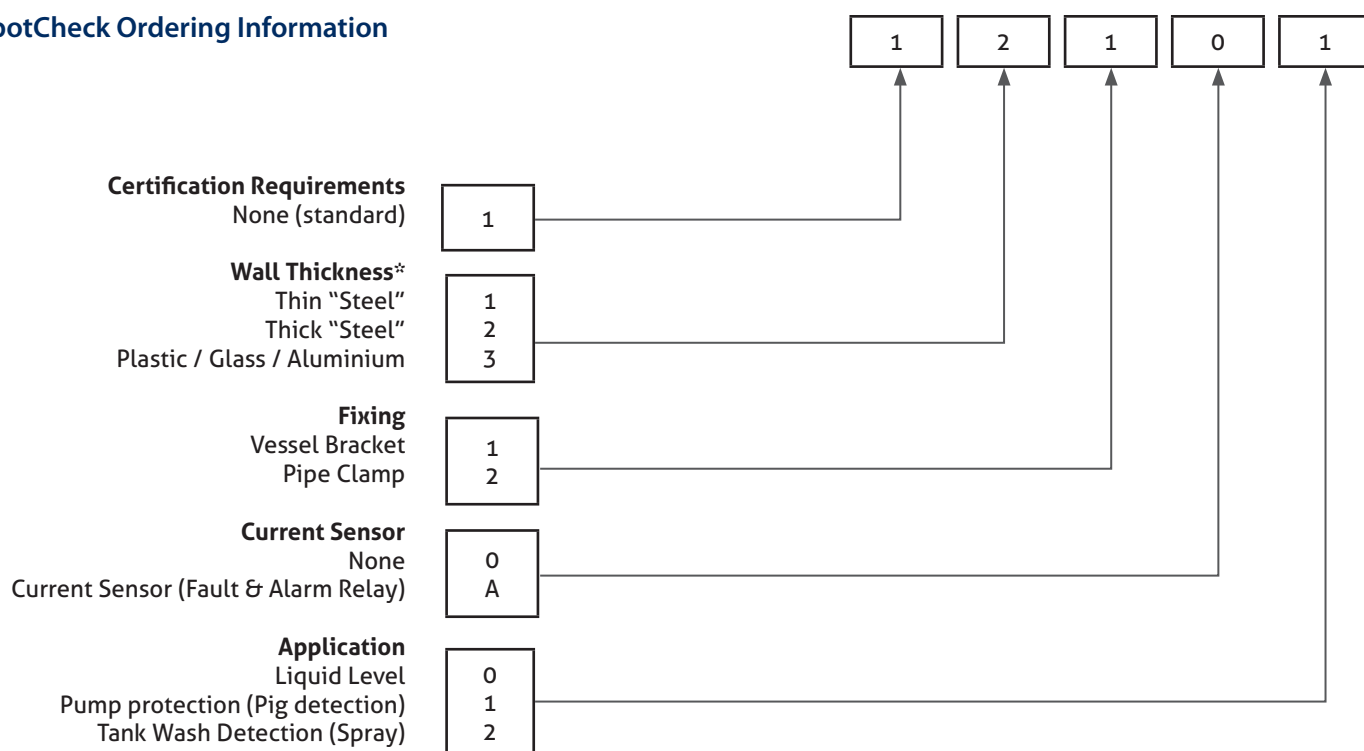


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Единый адрес для всех регионов: ctg@nt-rt.ru || www.canongate.nt-rt.ru

SpotCheck - Technical Specification	
Input:	Amplitude of ultrasonic ring
Output:	Single relay deual change-over contacts
Switches at:	Midpoint of sensor
Repeatability:	+/- 2mm
Response Time:	1 second as standard
Wall Thickness:	1.6...50 mm
Surface Finish:	240...300 grit or better
Vessel Diameter:	Minimum 60mm - no maximum
Power:	+24V dc (50 mA maximum)
Dimensions:	Body: 11 cm long Cap: 8 cm wide Width of top including gland = 10 cm
Weight:	256 grms
Electrical Connection:	2 or 4 core cable
Vessel / Pipe	
Temperature Range:	-40 to +110°C (125°C for short periods)

SpotCheck Ordering Information



*for wall thicknesses between 6mm & 8mm contact Rototherm Canongate

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