

Press Release 4/2009

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Level measurement in cavities with only 4mm diameter

Many industrial applications can be solved with the miniature ultrasonic sensors series UPS, where optical, inductive or capacitive sensors might have problems with detection. Furthermore with the UPS sensors with analogue output a precise distance or level measurement can be realized, with a precision of approx. 0.3mm, with 0...10V or 4...20mA output.

The special version "FOCUS Beam" (center on picture) has a focusing device for the ultrasound. It has been particularly successful in various applications. It proved its advantage in the detection through very narrow openings. Since the FOCUS Beam does not have any disadvantageous blind range, one can place it very close (few millimeters only) to the opening of a cavity. There the beam is only 3mm wide in diameter. This allows e.g. to measure the level in only 4mm wide cavities with an accuracy of only few 1/10mm.

The other special version "CP" (Chemical Protection, right on picture) has a PTFE diaphragm with a protective sleeve. This can be used as a level sensor also in small containers with aggressive liquids.

SNT Sensortechnik AG is a specialist in ultrasonic sensors for more than 20 years.



UPS Miniature ultrasonic sensors