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Ultrasonic miniature proximity and distance sensor

Ultrasonic sensors are used in industry and process automation for measurement of distance, level and proximity. They are best suited for detection of objects with very different surfaces and materials, as well as under difficult environmental conditions such as dust, dirt, fog, bright light. There they have clear advantages compared to inductive, capacitive and optical sensors. They are maintenance free and have a long service life, even in permanent operation.

The ultrasonic sensors of the UPS 200 series are specially small (M12 housing), and they have a narrow detection beam. Thus they are well suited to detect objects in the near range up to 200mm and under confined conditions. The sensors are available as well as pure proximity switches with PNP NO binary output as also as distance sensors with analogue mA or V output. The switch or measuring distances can be learned by a teach-in procedure. Typical applications are detection of objects and distance and level measurement.

The outstanding features beside the small size are the narrow detection beam of max. 20mm diameter and the short blind range of only 20mm as well.

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



UPS ultrasonic miniature sensor