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Low cost ultrasonic proximity sensor without blind range

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 proximity switch UPL 200 of SNT Sensortechnik AG is designed for detection in the rather close range up to 200mm. It has a fixed switching distance and no setting elements. Thus it is most suited for lateral approximation of objects, e.g. on conveyors. The typical zone close to the ultrasonic sensor is called blind zone. Conventional sensors cannot detect in the blind range. However the new UPL type detects most objects also in the blind range due to its high power SONARANGE transmitter and the M30 surface, i.e. in the whole range from 0...200mm. Only very bad reflecting (e.g. some textiles) or very small objects (<15mm) can be detected only at higher distances. Thus for most objects the sensor works without blind zone. Due to this feature and thank to its reasonable pricing it is a real alternative to conventional inductive, capacitive or optical proximity switches. All sensors of SNT Sensortechnik AG are 100% waterproof according to IP67. SNT Sensortechnik AG is a specialist in ultrasonic sensors for more than 20 years.



UPL ultrasonic proximity sensor