

## Press Release 1/2003

SNT Sensortechnik AG, 8153 Rümlang (Switzerland)

### Ultrasonic sensor – new for short distances and with lateral hysteresis

Ultrasonic sensors are used in industry and automation for measurement of distances, levels and proximity. They detect also under harsh environmental conditions and independent of the target material properties. They are maintenance free and have a long service life, even in permanent operation.

So far no ultrasonic sensors were offered for the distance range just above the domain of capacitive and inductive sensors. The capacitive and inductive sensors operate with electrically conducting or metallic materials only. Their operating range is limited to some cm. The new ultrasonic model UPX 150 from SNT Sensortechnik AG, Switzerland, is designed for exactly the range above. It detects objects in only 20mm distance. The switching distance can be adjusted with a potentiometer between 50...150mm. Furthermore it has an extended range up to 170mm. The sensor has PNP or NPN switch output. It is available with integrated cable or with M8 connector. Its detection beam is very narrow, and the axial hysteresis can be adjusted with a potentiometer. The unique feature is also a built-in lateral hysteresis of 2mm. This is useful for fast counting and detection tasks.

The housing originates from the well established and IP67 protected UPX series. However internal design is all new. The new developed powerful ultrasonic transducer operates with a high frequency. The switching frequency, i.e. the detection speed, is high as well.

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



*UPX150 Ultrasonic Sensor*