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Compact ultrasonic fork sensor in all new "advanced" version

The "advanced" series of ultrasonic fork sensors made by SNT Sensortechnik AG is supplemented by a compact version. The new UPF-A 30 FI 24 CA sensor is compatible to the old UPF 30 model. Thanks to new technology and production synergy, the new generation can be offered with considerably better performance at lower price.

The edge sensors type UPF-A are based on the experience of SNT Sensortechnik AG with ultrasonic through beam sensors. New software algorithms and a unique SONARANGE ultrasonic transducer material allow an accuracy and temperature stability so far only realized with optical systems. But the ultrasonic fork barrier is much less sensitive to dirt and dust compared to optical sensors. Further more transparent materials such as foils can be perfectly handled. The so called plane change error has been minimized to almost zero within 20mm plane change. Together with the high sampling speed of the sensor this means that fast moving and thus fluttering webs are well aligned.

The UPF-A is an ultrasonic through beam sensor with separated transmitter and receiver. In contrast to conventional barriers it does not offer a simple on/off output signal, but it measures the degree of covering of the ultrasonic receiver as a linear analogue output signal. If the receiver is fully covered, the output is 0V and if not covered at all 10V. With its large measuring range of 8mm it is the perfect tool for web guiding applications in dusty environment and with transparent web material. This new sensor can be used in packaging industry for web guiding control. But many other applications are open to this product, such as edge detection for many materials.

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



UPF-A Ultrasonic fork sensors with analogue output