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New family of teachable ultrasonic fork sensors for web guide and edge control

The new edge sensors type UPF-A TOR 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. Together with the high sampling speed of the sensor this means that fast moving and thus fluttering webs are well aligned.

The sensor can ideally be adjusted to the actual air conditions by the help of the teach-in function. Furthermore acoustically transparent materials such as textiles can be measured. With teach-in the signal output can be defined at fully closed as well as at fully open fork. In addition, the output signal can also be inverted via teach-in. The new sensors can be taught by push buttons or through the connector. 3 LED indicate the actual position in 5 steps.

The new larger fork widths are of particular interest if the material web is vertically heavily fluttering or if it does not always pass at the same height.

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



UPF-A TOR ultrasonic sensors