



# SU.7/B-50

## ULTRASONIC SENSOR



- ✓ Detects the edge of non soundproofing materials
- ✓ Measuring range of 16 mm
- ✓ 0,1 mm of resolution
- ✓ Both edge and centre guide
- ✓ Filter all interferences in the environment
- ✓ Compact design

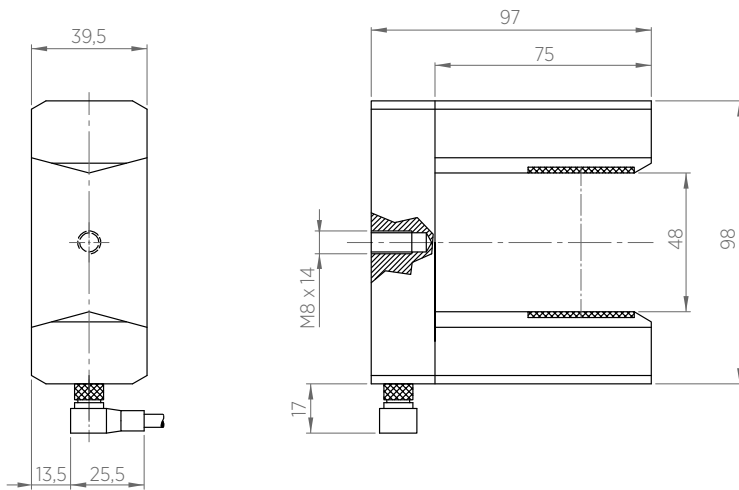
The ultrasonic SU sensors are specifically designed for detecting of the edges of materials such as paper, carton, plastic film of any colour or transparent.

The compact design guarantees an easy installation in all kind of applications. The sensor is equipped with a transmitter and a receiver that guarantees a measuring range of 8 mm with a resolution of 0,1 mm.

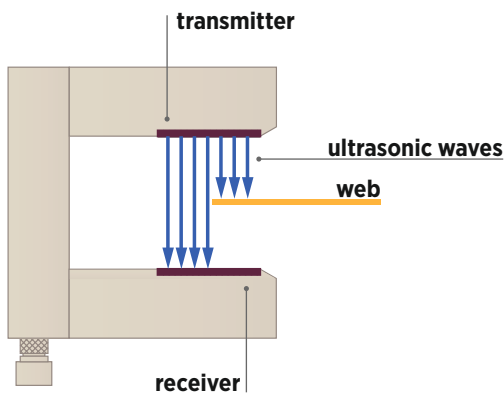
The sensor is able to filter all interferences and frequencies that it can find in the environment in order to receive a clear and real signal.

Using two sensors at the same time is it possible to realize the "centre guide": by considering the reading of both edges, the sensors guide the web by keeping the centre as the reference point.

## TECHNICAL DRAWING



## FUNCTIONING



SU.7 is equipped with two ultrasonic capsules, the transmitter one generates an ultrasonic wave sequence which is converted into electric signal by the receiver one. According to the intensity of the signal received, the microprocessor can identify how much of the sensitive surface of the capsule is covered by the material inserted in the fork and calculate the position of the web edge.

## TECHNICAL CHARACTERISTICS

Power supply	12Vdc / 24 Vdc
Power consumption	< 50 mA
Measuring range	± 4 mm
Fork width (A)	48 mm
Accuracy	0,1 mm
Ultrasonic frequency	45 kHz
Response time	50 msec
Analog outputs	0÷5 Vdc 0÷10 Vdc 4÷20 mA
Max cable length	30 m
Working temperature	0÷50° C
Protection class	IP20
Dimensions	97 x 39,5 x 98 mm

\*Data are subject to technical change without notice



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