



SU.M-25

ULTRASONIC SENSOR



- ✓ Detects the edge of non soundproofing materials
- ✓ Measuring range of 5 mm
- ✓ 0,01 mm of resolution
- ✓ Compact design for very narrow frames
- ✓ Available with air connection for cleaning the reading area
- ✓ IP54 protection class

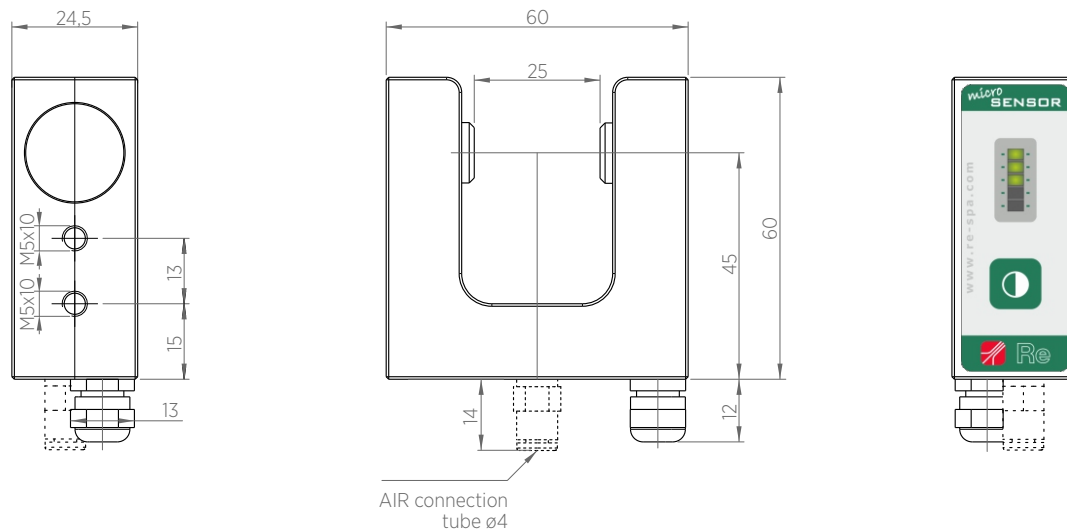
The ultrasonic SU sensors are specifically designed for detecting of the edges of materials such as paper, carton, plastic film of any colour or transparent.

The compact design, the membrane keyboard integrated on the sensor and the LED strip, to read the level of coverage, guarantee an easy installation in all kind of applications, most of all on very narrow frames, such us Re Skuba webguide. SU.m-25 is equipped with a transmitter and a receiver that guarantees a measuring range of 5 mm with a resolution of 0,01 mm.

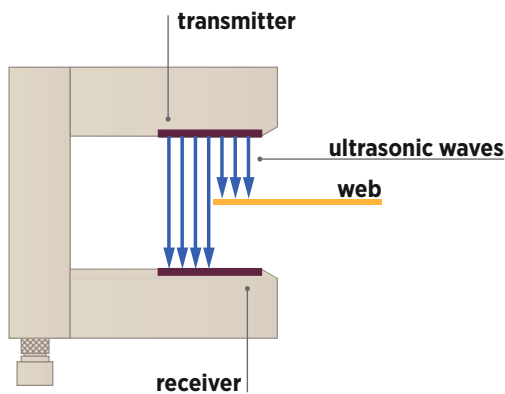
The sensor can be used in conjunction with Re webguiding system or with a normal PLC, using the 4÷20 mA current output and the broad 12÷24 V power range.

Su.m-25 is available also with the pneumatic connection to clean automatically the reading area from machining residues.

TECHNICAL DRAWING



FUNCTIONING



SU.m-25 is equipped with two ultrasonic capsules, the transmitter one generates an ultrasonic wave sequence every 3,5 msec 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	12÷24 Vdc
Power consumption	< 50 mA
Measuring range	± 2,5 mm
Fork width	25 mm
Accuracy	0,01 mm
Ultrasonic frequency	220 kHz
Response time	3,5 msec
Analog outputs	0÷5 Vdc 4÷20 mA
Max cable length	30 m
Pneumatic connection	optional
Working temperature	10÷50° C
Protection class	IP54
Dimensions	60 x 24,5 x 60 mm

*Data are subject to technical change without notice



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