SU FAST

ULTRASONIC SENSOR

✔ Very quick response time: 1 msec

✔ Detect the edge of materials opaque to sound and others

✔ Measuring range 22 mm

✔ Users' friendly interface

✔ Quick and easy calibration

✔ Latest generation electronics with the possibility of customization

✔ Compact design

✔ High noise protection

✔ Selectable outputs 0÷5V, 0÷10V, 4÷20 mA, 0÷10 mA, 0÷20 mA

SU FAST ultrasonic sensors are specifically designed for detecting of the edges of materials such as paper, carton, plastic film of any colour or transparent. It is also able to detect the position of some materials that usually require infrared sensors.

The compact design guarantees an easy installation in all kind of applications.
SU FAST sensor is equipped with latest generations components that guarantee a measuring range of 22 mm and very quick response times.
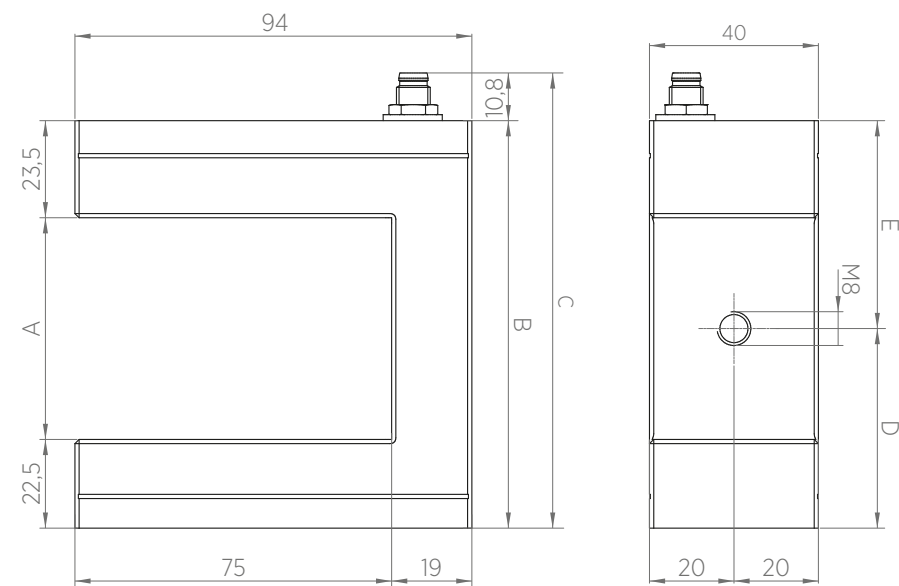
SU FAST is provided with an onboard keypad with two buttons for the calibration and a 9 digits barraled for an easy and quick calibration and control of the web inside the fork.

Two outputs 0÷5V, 0÷10V, always available and selectable by the customer, allow the sensor to be suitable for any kind of web guiding system. MLO version offers additional outputs: 4÷20 mA, 0÷10 mA, 0÷20 mA.

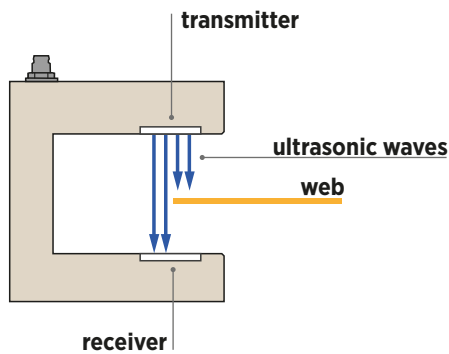The sensor is available with 50 mm and 100 mm fork width.

SU FAST has been completely designed, tested and realized by Re S.p.A.

TECHNICAL DRAWING

	SU FAST - 50	SU FAST - 100
A	52,5	100
B	98,5	146
C	109,3	156,8
D	48,75	72,5
E	49,75	73,5

FUNCTIONING

SU FAST 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

	SU.FAST-B50/B100	SU FAST-B50/B100 MLO
Power supply	12÷24 Vdc	12÷24 Vdc
Power consumption max	< 40 mA	< 40 mA
Measuring range	± 11 mm (22 mm tot.)	± 11 mm (22 mm tot.)
Fork width	50 mm o 100 mm	50 mm o 100 mm
Ultrasonic frequency	49 kHz	49 kHz
Response time	1 msec	1 msec
Analogue outputs - selectable	0÷5 Vdc 0÷10 Vdc	0÷5 Vdc 0÷10 Vdc 4÷20 mA 0÷10 mA 0÷20 mA
Cable length	max 30 m	max 30 m
Connector	M8 4 poles	M8 4 poles
Working temperature	10÷50° C	10÷50° C
IP protection class	Ip20	Ip20

*Data are subject to technical change without notice