

TRUWIDE ULTRASONIC SENSOR



CONTROL MULTIPLE WEBS AND WEB WIDTH VARIATION ON ANY MATERIAL

Demanding materials, multiple webs and web width variation are easy to control when you have the right sensor for the job. For years, Fife has delivered a complete family of durable, reliable sensors to maintain web alignment when you need it most. New TruWide sensor technology gives you an expanded view of the web and the ability to run opaque or clear materials. It accommodates center or edge guiding with proportional band widths ranging from 66 to 515 mm (2.6 to 20.28 inches) and

16-bit resolution for more accuracy than ever before. Choose analog for stand-alone monitoring or digital operation for multiple edge and web width detection capability. And because it's a Fife, you know it'll be there for the long haul.



GENERAL SPECIFICATIONS

Part Number

SE-45 Ultrasonic Sensor

Power Required

+10 to +51 VDC

Output Signal

Analog: 0 to 20 mA

Digital: Modbus/TCP over Ethernet

Class

IP-50

Sensor Signal Source

Ultrasonic at 300 KHz

Certification

CE

Proportional Band Width

66 mm (2.60 inches)

107 mm (4.21 inches)

178 mm (7.01 inches)

311 mm (12.24 inches)

515 mm (20.28 inches)

Temperature Range

0° to 60° C (32° to 140° F)

Linearity

0.37% (over entire sensor band width)

3 Versions:

001 Guiding

002 Web Width Measurement

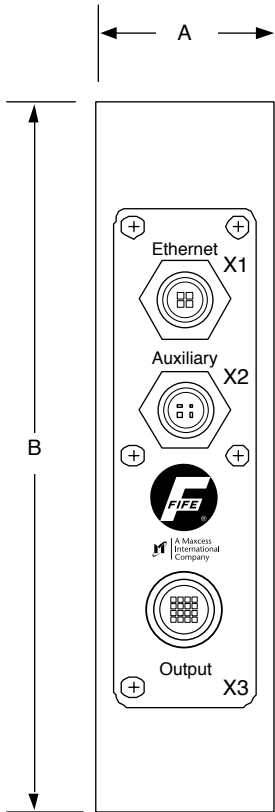
003 Guiding & Web Width Measurement

KEY FEATURES

- Either-edge and web width detection
- Multiple edge and web width detection in digital (Ethernet) mode
- Highest accuracy – 16-bit resolution, standard or high resolution modes
- 5 models – proportional band width ranges from 66 to 515 mm (2.6 to 20.28 inches)
- Efficient maintenance – transducers can be replaced independently
- Measure distance between lanes in multi-web applications
- Part of a complete family of sensors to increase efficiency and accuracy where web widths and materials change often

TRUWIDE ULTRASONIC SENSOR

TRUWIDE CONNECTIONS & DIMENSIONS



SENSOR & POWER CONNECTION METHODS

X1 Ethernet Connection

Modbus Communication over Ethernet TCP (UDP Layer)

X2 Auxiliary Power Connection (+10 to +51 VDC)

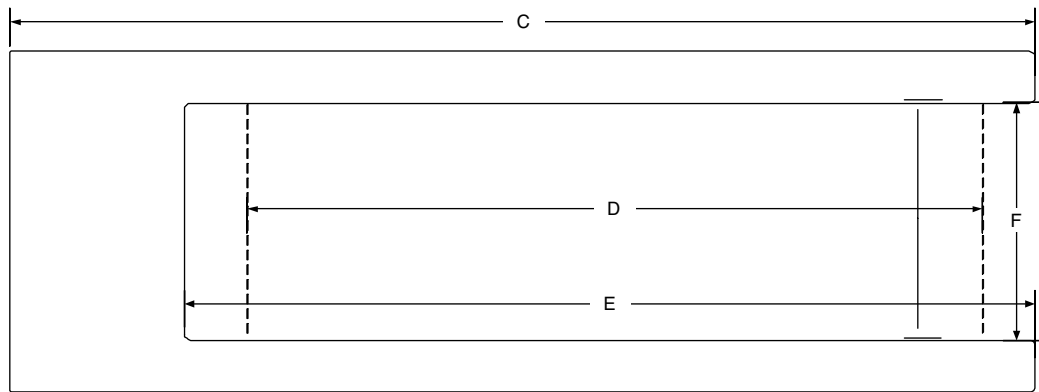
One Pin = Power, Two Pins = Ground

One Pin = Web Width Output (0 - 20 mA)

X3 Analog Connection (+12 VDC / 0 - 20 mA)

One Pin = +12 VDC Power, One Pin = Ground

Three Pins = Two Edge and One Web Width Output (0 - 20 mA)



MODEL NUMBER	A WIDTH	B HEIGHT	C LENGTH	D BAND WIDTH	E THROAT	F GAP
SE-45-7-10	36 (1.42)	144 (5.67)	188 (7.40)	66 (2.60)	115 (4.51)	100 (3.94)
SE-45-11-10	36 (1.42)	144 (5.67)	229 (9.02)	107 (4.21)	156 (6.12)	100 (3.94)
SE-45-18-10	36 (1.42)	144 (5.67)	300 (11.81)	178 (7.01)	227 (8.92)	100 (3.94)
SE-45-31-10	36 (1.42)	144 (5.67)	433 (17.05)	311 (12.24)	360 (14.51)	100 (3.94)
SE-45-52-10	36 (1.42)	144 (5.67)	637 (25.08)	515 (20.28)	564 (22.19)	100 (3.94)

(Dimensions shown in mm (inches))



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