



WEB WIDTHS CHANGE. YOUR SENSOR SHOULDN'T HAVE TO

Increase uptime, line speed and profits with the new Digital DSE-45 Wideband sensor from Fife.

Controlling web width variation, working in harsh environments and guiding multiple webs is easy when you have the right sensor for the job.

With a manual sensor, an operator must manually reposition both sensors, increasing downtime while decreasing profits.

The DSE-45 requires no repositioning with web width changes, increasing uptime, throughput and profits.



GENERAL SPECIFICATIONS

Part Number

DSE-45 Ultrasonic Sensor

Power Required

+12 to +48 VDC

Output Signal

Analog: 0 to 20 mA
Digital: Modbus/TCP over Ethernet

Class

IP65

Sensor Signal Source

Ultrasonic at 300 KHz

Certification

CE

Proportional Band Width

66 mm (2.6 inches)
107 mm (4.2 inches)
178 mm (7.0 inches)
311 mm (12.2 inches)
515 mm (20.3 inches)

Temperature Range

0° to 60° C (32° to 140° F)

Linearity

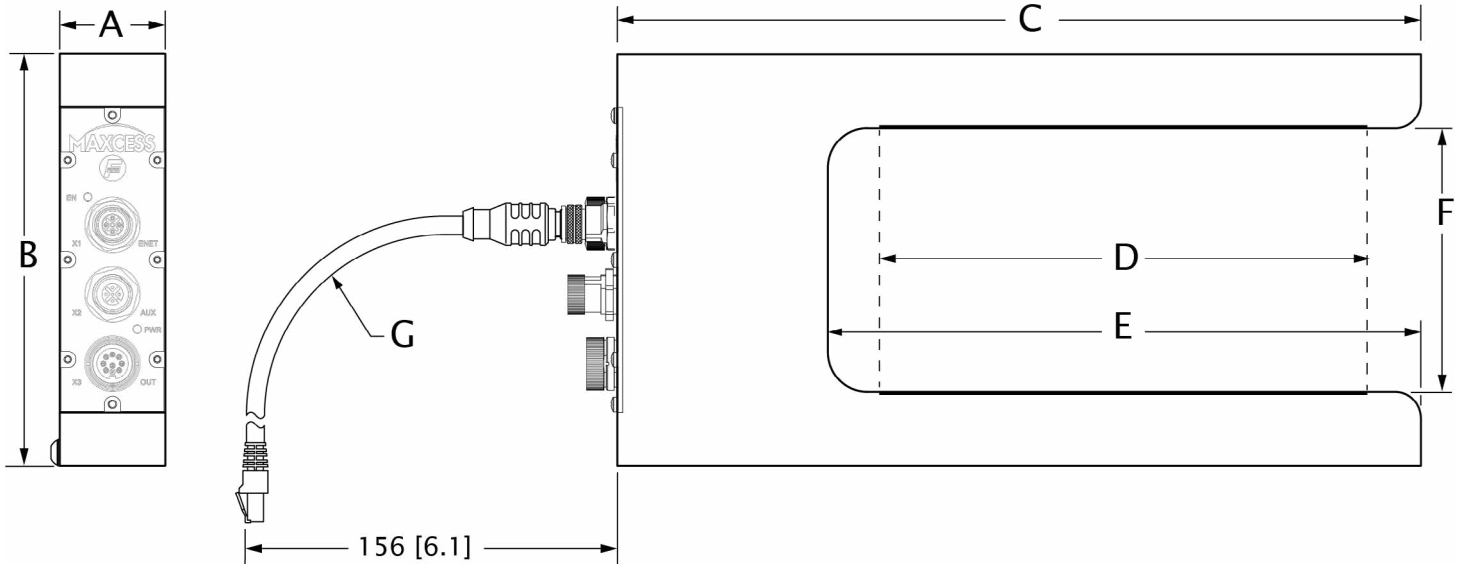
0.37% (over entire sensor band width)

KEY FEATURES

- No repositioning needed for web width changes
- IP65 rating for use in harsh environments
- Ability to track up to 16 web edges or 8 webs, reducing the number of sensors needed
- Industry 4.0 connectivity for performance data monitoring and automation
- Either-edge and web width detection
- 5 models – proportional band width ranges from 66 to 515 mm (2.6 to 20.3 inches)
- Efficient maintenance – transducers can be replaced independently
- Part of a complete family of sensors to increase efficiency and accuracy where web widths and materials change often

DSE-45 WIDEBAND ULTRASONIC SENSOR

DSE-45 CONNECTIONS & DIMENSIONS



Dimensions shown in mm (inches)

MODEL NUMBER	A WIDTH	B HEIGHT	C LENGTH	D BAND WIDTH	E THROAT	F GAP	G* CABLE RADIUS (MINIMUM)
DSE-45-7	40 (1.6)	156 (6.1)	193 (7.6)	66 (2.6)	113 (4.5)	100 (3.9)	90 (3.5)
DSE-45-11	40 (1.6)	156 (6.1)	234 (9.2)	107 (4.2)	154 (6.1)	100 (3.9)	90 (3.5)
DSE-45-18	40 (1.6)	156 (6.1)	305 (12.0)	178 (7.0)	225 (8.9)	100 (3.9)	90 (3.5)
DSE-45-31	40 (1.6)	156 (6.1)	438 (17.2)	311 (12.2)	358 (14.1)	100 (3.9)	90 (3.5)
DSE-45-52	40 (1.6)	156 (6.1)	642 (25.3)	515 (20.3)	562 (22.2)	100 (3.9)	90 (3.5)

* The minimum bend for output and auxiliary cables is less.
The minimum space required for the optional Ethernet cable is 156 (6.1).



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