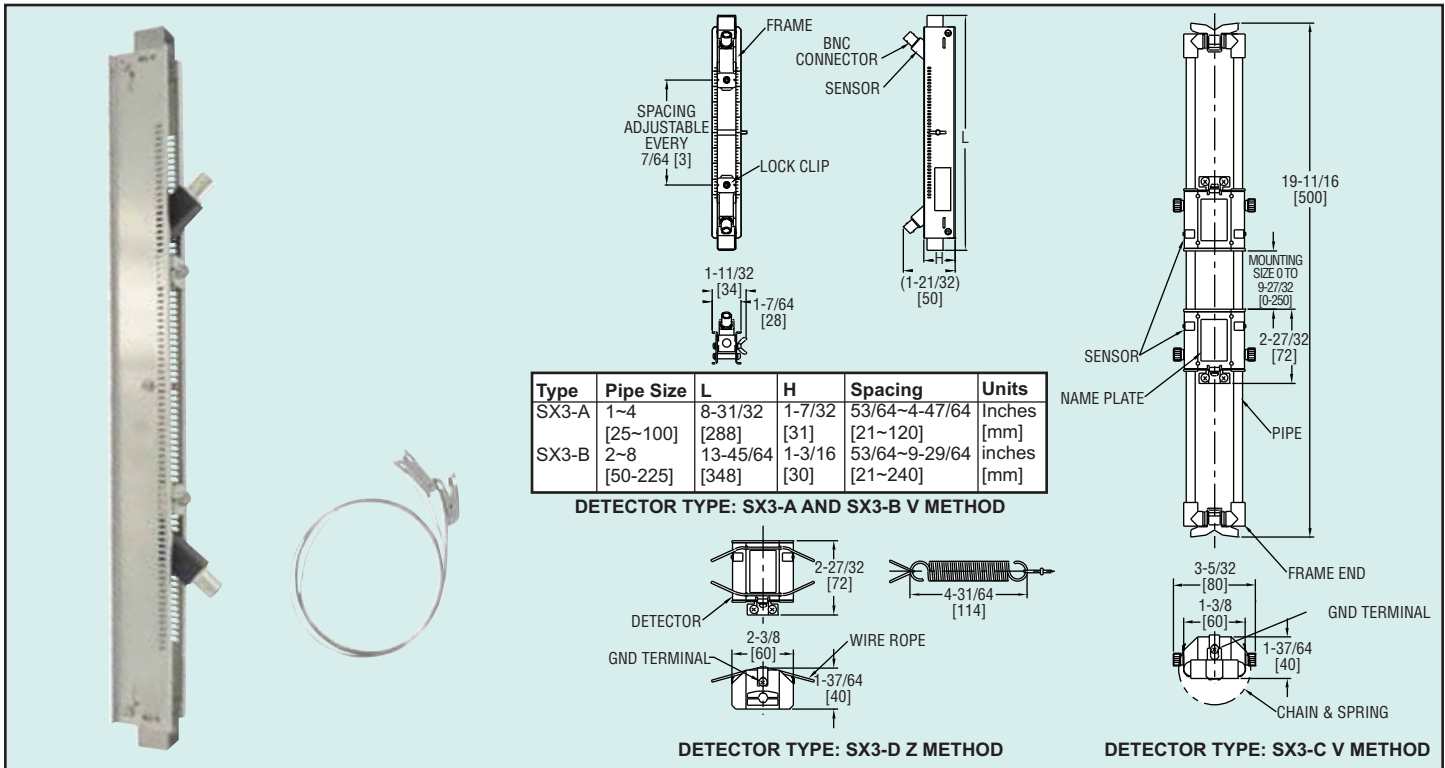




Series
SX3

Ultrasonic Flowmeter Detector

Quick and Easy Mounting



Series SX3 Ultrasonic Flowmeter Detectors are paired with Series UXF2 converters and employ a clamp-on type design for permanent use based on transit time measuring method. These detectors are ideal for clean liquids containing no air bubbles such as pure water. The easy-to-use compact and lightweight design is intended for integration into mechanical devices. It is applicable for small to medium size pipes of diameter range from 1 to 23 in (25 to 600 mm) and provides superior cost performance.

Series SX3 Ultrasonic Flowmeter Detectors:

- Helps ensure pumping efficiency
- Provides accurate leak detection
- Not influenced by fluid's temperature or pressure

Model	Kind of Detector	Flow Pipe Size in (mm)	Acoustic Coupler
SX3-A0	Small Standard	0.98 to 3.94 (25 to 100)	None
SX3-B0	Small	1.97 to 8.86 (50 to 225)	None
SX3-C0	Medium	1.97 to 11.81 (50 to 300)	None
SX3-D0	Large	11.81 to 23.62 (300 to 600)	None

ACCESSORIES

Model	Description
A-186	Silicone-based grease acoustic couplant, 3 oz tube
A-187	Silicone RTV acoustic couplant, 4 oz tube
A-188	Silicone-free acoustic couplant, 4 oz tube

Model	Description	Cable Length ft (m)
SX3C-1A	Heat Resistant Cable with waterproof BNC connector for SX3-A and SX3-B	16.4 (5)
SX3C-1B	Heat Resistant Cable with waterproof BNC connector for SX3-A and SX3-B	32.8 (10)
SX3C-2A	Heat Resistant Cable for SX3-C and SX3-D	16.4 (5)
SX3C-2B	Heat Resistant Cable for SX3-C and SX3-D	32.8 (10)

Option-Consult factory for other cable lengths.

SPECIFICATIONS

Service: Clean liquids that pass ultrasound and do not contain air bubbles (such as pure water and chemical solution).

Turbidity: 10000 deg (mg/L) or less.

Type of Flow: Well-developed turbulent or laminar flow in a fluid-filled pipe.

Permissible Air Volume Rate: Up to 2% at 1 m/s (inversely proportional to velocity).

Range: 0 to ± 32.8 fps (0 to ± 10 m/s).

Flow Pipe Sizes: SX3A: 0.98 to 3.94 in (25 to 100 mm) for plastic piping 1.97 to 3.94 in (50 to 100 mm) for metal piping; SX3B: 1.97 to 8.86 in (50 to 225 mm); SX3C: 1.97 to 11.81 in (50 to 300 mm); SX3D: 11.81 to 23.62 in (300 to 600 mm).

Accuracy: 1.5 to 2% of rate.

Response Time: System cycle: 0.2 s, Dead time: 0.2 s or less, Time constant: 0.1s.

Temperature Limits: Ambient -4 to 140°F (-20 to 60°C). Fluid Temperature: SX3A/SX3B: -4 to 212°F (-20 to 100°C); SX3C/SX3D w/ silicone rubber for acoustic couplant: -4 to 176°F (-20 to 80°C), w/ silicone free grease for acoustic couplant: 32 to 140°F (0 to 60°C).

Enclosure Rating: SX3A and SX3B: IP65 (Jetproof) when using waterproof BNC connector. SX3C and SX3D: IP67 (Immersion-proof) when the terminal block is filled with silicone rubber after wiring.

Materials: For SX3A and SX3B: Plastic PBT for sensor housing, 304SS for guide frame. For SX3C and SX3D: Plastic PBT for sensor housing, 304SS for sensor cover, 304SS and PBT for guide rail.

Electrical Connection: Coaxial cable up to 98.4 ft (30 m) and thermal stability of 212°F (100°C).

Mounting: Clamped on pipe surface.

Weight: SX3A: 10.6 oz (0.3 kg), SX3B: 14.1 oz (0.4 kg), SX3C: 2.2 lb (1 kg), SX3D: 14.1 oz (0.4 kg).