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

**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
- 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: 0.1 s.

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

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-186</td>
<td>Silicone-based grease acoustic couplant, 3 oz tube</td>
</tr>
<tr>
<td>A-187</td>
<td>Silicone RTV acoustic couplant, 4 oz tube</td>
</tr>
<tr>
<td>A-188</td>
<td>Silicone-free acoustic couplant, 4 oz tube</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Cable Length ft (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SX3C-1A</td>
<td>Heat Resistant Cable with waterproof BNC connector for SX3-A and SX3-B</td>
<td>16.4 (5)</td>
</tr>
<tr>
<td>SX3C-1B</td>
<td>Heat Resistant Cable with waterproof BNC connector for SX3-A and SX3-B</td>
<td>32.8 (10)</td>
</tr>
<tr>
<td>SX3C-2A</td>
<td>Heat Resistant Cable for SX3-C and SX3-D</td>
<td>16.4 (5)</td>
</tr>
<tr>
<td>SX3C-2B</td>
<td>Heat Resistant Cable for SX3-C and SX3-D</td>
<td>32.8 (10)</td>
</tr>
</tbody>
</table>

Option-Consult factory for other cable lengths.