



SLFSI-TXX Flow Sensor Specifications

Weathermatic is proud to introduce a new technologically advanced flow sensor designed specifically for the irrigation industry and integrated with the SmartLink Landscape Network.

The sensor features a square wave digital signal proportional to flow. The characteristics of the output signal duplicate existing impeller flow sensor signals making the FSI series sensor compatible with SmartLine Controllers. The pulse signal will travel up to 2,000 feet without amplification.

The key elements of this new technology are a proprietary mounting tee, ultra-lightweight impeller and improved processor based electronics giving the FSI series sensor improved performance.



Feature

Benefit

Molded Mounting Tee	Improved control of dimensions for more consistent measurement and improved performance at low flow.
Threaded Retaining Nut instead of Retaining Pin	Easier to service in a valve box, more moisture resistance for electronics resulting in longer life.
Unique 4 bladed lightweight impeller	Measures lower flow rates. Detects flow as low as 20% of published minimum rate of other impeller sensors
Smart electronics detection system	Sensor electronics contain a micro-processor for better signal filtering and conditioning. Detection circuit also contains superior over-voltage and over-current protection.

Available Sizes

Model	Size
SLFSI-T10	1 inch
SLFSI-T15	1-1/2 inch
SLFSI-T20	2 inch



Wetted Materials

- Impeller – HDPE (High Density Polyethylene)
- Shaft – Tungsten Carbide
- O-ring – BUNA N
- Tee, Sensor Housing, Retaining Nut -Type 1 PVC

Pressure Rating

- Sensor designed to Schedule 40 specifications
- Samples tested to working pressure of 240 PSI

Temperature Range

- 32°F to 140° F (0° to 60° C)

Output Signal

- Frequency Range: 0.3 Hz to 200 Hz
- Output Pulse: 5 msec +/-25%

Transducer Excitation

- Quiescent current 600 uA@8 VDC to 35 VDC max.
- Quiescent voltage (VHigh)= Supply Voltage - (600uA X Supply Impedance)
- On State (VLow)= Max. 1.2 VDC@50mA current limit, (10ff +0.7VDC)

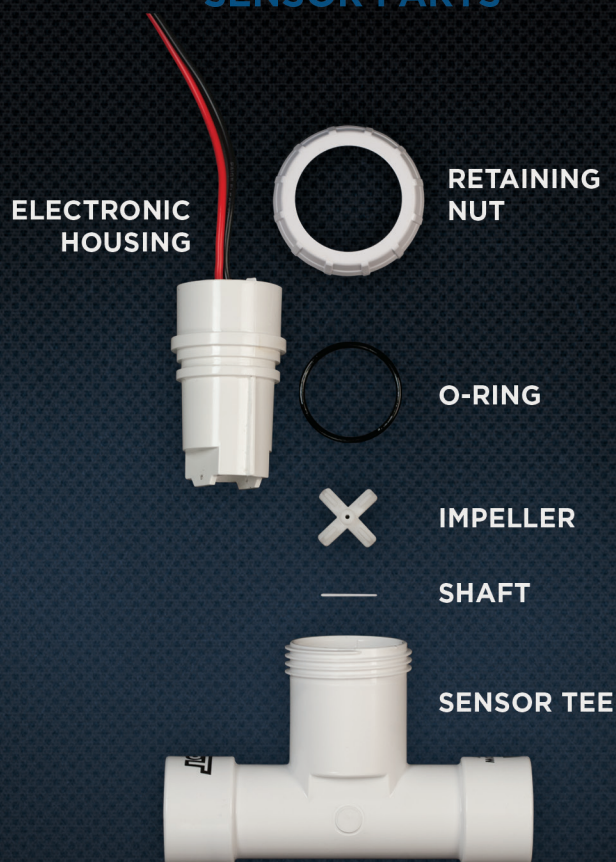
Flow Range

- 0.25 to 15 FPS

Electrical Cable

- 2 single conductor solid copper U.L. listed #18 AWG leads with direct burial insulation
- Lead length: 48 inches
- Wiring may be extended up to 2,000 feet with direct burial, twisted pair shielded cable

SENSOR PARTS



Flow Sensor Dimensions

Size	A Length	B Length	C Length
1"	5.625" (143 mm)	1.710" (43 mm)	3.487" (88 mm)
1-1/2"	6.188" (157 mm)	2.310" (58 mm)	5.097" (130 mm)
2"	7.00" (178 mm)	2.875" (73 mm)	4.573" (116 mm)

