



SmartLink® Flow Sensors SLFSI-B

FLOW SENSOR(S) shall be model SLFSL-B Series manufactured by Creative Sensor Technology, Incorporated of Rochester, Massachusetts for Weathermatic Sprinkler Division of Telsco Industries. The Model number shall include the Series designation followed by a three-character group beginning with B (Brass Tee Mounted) and followed by a two digit code referencing line size. Therefore, the model number for a one and one-half inch size flow sensor with standard electronics would be written as: SLFSI-B15. Flow sensors must be compatible for use with SmartLine irrigation controls.

CONSTRUCTION: The flow sensor shall consist of a custom designed brass bodied tee configured shaped body with socket ends conforming to metallic pipe dimensions, a flow sensor housing containing the electronic circuitry and carrying the spinning impeller and a retaining nut.

The meter tee shall be an in line type available in 1 1/2" pipe size, machined from Lead free Bronze Alloy – conforming to C89833 Federalloy i-836. The meter housing shall be molded from Polyvinyl Chloride material – color white - conforming to ASTM D-1784, Cell Class 12454. The 4 blade impeller (paddle wheel) shall be the only moving part.

The impeller shall be molded of HDPE (High Density Polyethylene) incorporating an integral bearing. The shaft material shall be tungsten carbide. These two items are considered wear items and shall be replaceable in the field without special tools.

The electronics housing, shall be held in place with a single ACME threaded brass retaining nut held captive by the wire leads. The housing will be sealed with one BUNA N O-Ring and shall be easily removed from the meter body. The electronics housing and tee body shall feature direction of flow arrows to assist in assembly.

The sensor electronics will be epoxy-sealed and fitted with 2 single conductors solid copper U.L. listed #18 AWG leads with direct burial insulation 48 inch in length extending from the top of the sensor. The positive (+) lead shall have red insulation and the negative (-) lead shall have black insulation.

The housing and mounting tee are custom molded to form an integrated measurement chamber resulting in highly accurate, repeatable flow measurements through a wide range of velocities.

The flow sensor shall be designed to schedule 40 specifications and have a tested working pressure of 240 psi @ 73°F (23°C).

Maximum working temperature is 140°F (60°C). The sensor flow range shall be 0.50 to 15 FPS.

The Product Serial Number shall be printed on shrink tubing and attached to the wire leads as they exit the top of the electronics housing.

The Product Model Number shall be printed on shrink tubing and attached to the wire leads above the Product Serial Number.

ELECTRICAL SPECIFICATIONS: The flow sensor shall have an output Frequency Range of 0.3 Hz to 200 Hz.

The flow sensor shall output a minimum of a 5-millisecond low pulse at low frequencies and reverts to approximately a square wave above 100 Hz.

Quiescent current 120 uA@8 VDC to 35 VDC max.

On State (VLow) = Max. 0.85 VDC@50mA max.

WARRANTY: Flow sensors shall have a manufacturer's limited warranty of two (2) years.