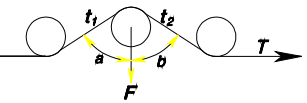


# Dynamic Tension Measurement



- Filaments
- Fibers
- Tapes
- Fine Wire
- Tow
- Tubing
- Cable

## Multi-Purpose Model FTX-Series

These versatile tension sensors can be ordered as single and three roller instruments. A variety of standard rollers and non-rotating contact elements make them adaptable to many applications as both a simple tension readout or for closed loop control. Some of their uses include filaments, fiber, yarn, wire, tapes, tubing and tow. Higher temperature options and vacuum compatible options also available. For 3-roller use, three standard faceplate widths of 5", 6" and 8" are offered. No faceplate is required when ordered as a single roller sensor. See drawings for dimensions.

## VERSATILE TENSION SENSORS FTX-Series, Single & 3-Roller Options

Installation Flexibility: Six holes through body

### Specifications:

**Standard Ranges:** From 0 - 12 LB, 0 - 15 Lb, 0 - 20 LB & 0 - 25 LB  
(wrap angle dependent)

**Operating Temperature:** -40° F to 180° F

**Excitation Voltage Recommended:** Regulated 5 - 10 VDC

**Bridge Resistance:** 350 ohm nominal

**Output Signal:** 1 mV/V full scale nominal

**Resistance to Ground:** Exceeding 500 Megohms

**Noise Level:** Less than 0.2%

**Linearity:** 0.25% to 0.5% or better is typical

**Repeatability:** 0.25% - 0.5% typ.

**Accuracy (Total Error):** 0.25 - 0.5% is typ, not to exceed 1% of the reading  
anywhere in the full-scale tension range.

**Shielded Cable:** P.T.F.E. insulated, with braided shield. 10 ft. standard.

Other lengths available. In-line connectors also available.

**Transducer Materials:** Aluminum is the standard

**Overload Protection:** 100% minimum. Sensor housing provides additional  
mechanical overload protection.

For Technical Information  
Or to Place an Order  
USA Tel. (303) 465-1011