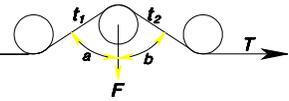


# WEB Tension Measurement



## Model WPED-Series

A pair of these durable sensors are designed to capture the shaft of a roller. The shaft caps are easily removed from each sensor to install the roller's shaft. The tension proportionate output from these sensors provides precision tension readings. These sensor assemblies are designed to operate with tension forces applied toward the mounting bases. When retrofitting machinery, sensors are frequently installed in place of existing rollers. Sensor installation in any orientation is possible when your material's angle to either side of the sensing roller is approximately equal and the direction of force aligned perpendicular and toward the mounting base. Standard web rollers are offered in lengths from 2" - 18". Special order options available for longer lengths or we can accommodate your rollers where feasible. Shaft diameters from .250" to 1.250" typical. Metric shaft cap options also available. For dimensions see WPED-Series drawings.

## PEDESTAL BASE SENSORS

### WPED-Series Tension Sensors

**Webs - Tapes - Bands - Straps - Wire - etc.**

## Specifications:

**Sensor Ranges:** From 0 - 5 LB to 0 - 500 LB (Wrap Angle Dependent)

**Operating Temperature:** -40°F to 180°F (Higher temp. options offered.)

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

**Bridge Resistance:** 1,000 ohm nominal, 500 ohm as sensor pair

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

**Resistance to Ground:** Exceeding 500 Megohms

**Drift at Midpoint:** Less than 0.5% of the reading

**Noise Level:** Less than 0.2%

**Linearity:** Better than 0.5%

**Total Error:** Within 0.25% - 0.50% of reading anywhere in the FS Range is typ.

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

**Transducer Materials:** Typically Aluminum

**Cable:** 10 ft. standard shielded cables provided. Other lengths available.

Circular connectors on some sensor model ranges.

**Rollers:** Variety of rollers offered for webs, tapes, wire, etc.

**Overload Protection:** 50% - 100% (Range dependent). Sensor incorporates mechanical overload stops for excellent overload protection.

**For Technical Information or to Place an Order Call USA (303) 465-1011**