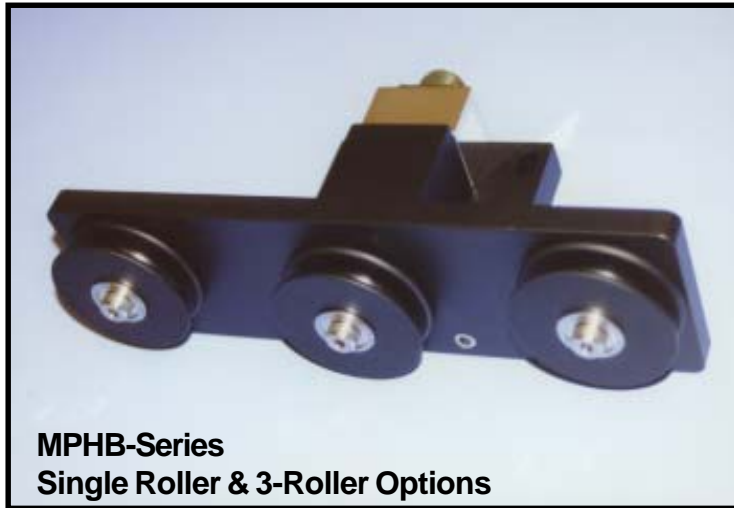
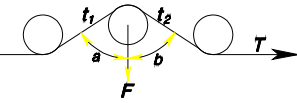


# Dynamic Tension Measurement



## Multi-Purpose Model MPHB-Series

These multipurpose tension sensors offer excellent resolution and low profile installation. When ordered with an optional analog output these sensors provide precise tension feedback for closed loop control. A variety of standard and custom rollers make them adaptable to many applications. Some of their uses include wire, cable, filaments, fiber, yarn, tow and narrow webs. Several standard faceplate widths from 5" - 10.5" are offered to accommodate different roller diameters. Custom faceplates to meet your application requirements can also be ordered. Standard circular mil. spec. cable/connector assembly is included. Vacuum compatible and higher temperature options available. For other sensor options please call, e-mail or fax our offices. For dimensions see MPHB-Series drawings.

## VERSATILE TENSION SENSORS

### MPHB-Series Base Mount Models

Filaments - Fibers - Wire - Cable - Webs - Tow

## Specifications:

**Sensor Ranges:** From 0 - 10 LB to 0 - 100 LB

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

**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

**Linearity:** 0.5% or Better

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

**Repeatability:** 0.25% - 0.5% or better is typ.

**Rollers:** Many standard roller types offered, custom roller options also offered.

**Shielded Cable:** Polyethylene, P.T.F.E. & PVC, (braided shield). Includes standard 10-ft. mating connector/cable assembly. Other lengths available.

**Transducer Materials:** Typically Aluminum

**Overload Protection:** 100% minimum. Sensor housing provides physical overload stops for additional overload protection.

**For Technical Information  
Or to Place an Order  
USA Call (303) 465-1011  
tension@tension-measurement.com**