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.

Transducer Materials: Typically Aluminum
Overload Protection: 100% minimum. Sensor housing provides physical overload stops for additional overload protection.