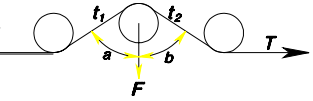


# Dynamic Tension Measurement



Three Standard Mounting Flanges  
See Drawings CFF, CFR and CFM

## **Multi-Purpose Model CF-Series**

These small single roller tension sensors allow installation from a vertically oriented surface. There are three standard instrument bodies offered, with mounting flange variations to allow face or through-hole installation. Typical uses include closed loop tension control, data acquisition and digital tension indication. These durable and precision sensors will provide many years of service. Higher temperature and vacuum compatible options available.

A variety of standard rollers and contact elements are offered for use on textiles, yarns, fine wire, optical fiber, filaments, fiber, tapes, films, narrow webs, threads, cable, tow, tubing, etc.

## VERSATILE TENSION SENSORS CF-Series, Single Roller Options

· Filaments · Fibers · Tubing · Fine Wire · Tow · Webs

### Specifications:

**Sensor Ranges:** From 1 to 6,000 grams (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

**Linearity:** 0.25% to 0.5% of reading is typ.

**Accuracy (Total Error):** 0.25 - 0.5 % typ. not to exceed 1.0%  
anywhere in the full scale range

**Repeatability:** .25% - .5% typ.

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

Other lengths available. Gold plated contact pins soldered to cable leads for positive/easy termination with an indicator.

**Transducer Housing:** Hard Anodized Aluminum.

**Overload Protection:** 100% - 200% Range dependent. Sensor housing provides additional mechanical overload protection.

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