

# Optic Fiber TENSION SENSOR

## Model TF

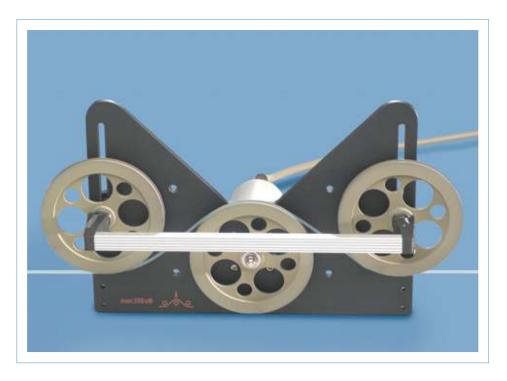
### **6 Tension Ranges** 0–100 g up to 0–5.00 Kg

Large 70 mm aluminum rollers minimize bending of material which might damage or break the fragile filament.

The outer rollers are mounted on a movable plate to minimize contact when measurements are not being made.

Tension ranges of 10Kg and higher are available without moveable outer rollers.

Built-in signal conditioning with ZERO and SPAN pots provide a high-level, analog output to minimize the chance for signal interference.



### FEATURES

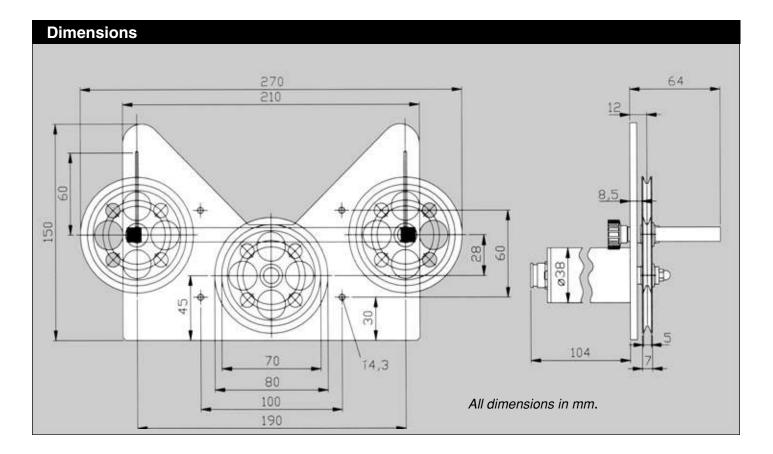
- 70mm V-grooved rollers are rated for speeds up to 5000 m / min
- Precision strain gauge sensing insures highest accuracy
- Frequency response of 100 Hz
- Surface mount electronics provide long-term reliability

- Optional roller types are available for a wide variety of material profiles
- Optional 5 ft. cable, TE-CABLE-CC is recommended. Longer lengths are available
- 0-1 V DC output, proportional to tension (0-10 V DC optional)

TENSION RANGES							
Model #	TF-100	TF-200	TF-500	TF-1K	TF-2K	TF-5K	
Range	0–100 g	0-200 g	0-500 g	0 –1000 g	0–2000 g	0-5.00 Kg	

### MODEL TF

# **TECHNICAL DATA & SPECIFICATIONS**



#### Specifications

Accuracy Sensor Excitation Middle Roller Deflection Sensor Output	±1.5% FS or better 12–18 V DC, 21 mA 0.5 mm (maximum) 0–1 V DC (standard), 0–10 V DC (optional), proportional to tension	Spacing of Outer Rollers Roller Diameter (Root) Roller Material Maximum Linear Speed Operating Temp.		
Overload Rating	150% FS			
Housing Material	Aluminum			

Specifications subject to change without notice.

Hard-Anodized Aluminum 5000 m/min

40 to 105 °F (5-40 °C)

190mm 70mm

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