

## Optic Fiber TENSION SENSOR

## Model TF

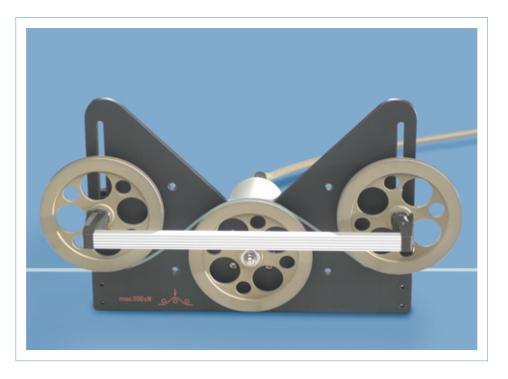
**6 Tension Ranges** 0–100 g up to 0–5.00 Kg

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

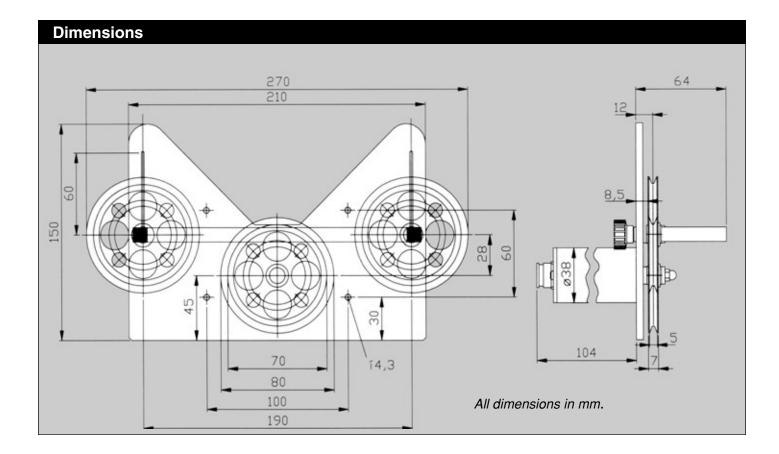
- Optional roller types are available for a wide variety of material profiles
- Optional 5 ft. cable, TE-CABLE-CC is recommended. Longer lengths are available
- 0-1 V DC output, proportional to tension (0-10 V DC optional)

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	



**Distributed by:** ABQ Industrial LP USA **Tel:** +1 (281) 516-9292 / (888) 275-5772 **eFax:** +1 (866) 234-0451 **Web:** https://www.abqindustrial.net **E-mail:** info@abqindustrial.net





## 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	190mm 70mm Hard-Anodized Aluminum 5000 m/min	
Overload Rating Housing Material	150% FS Aluminum	Operating Temp.	40 to 105 °F <i>(5–40 °C)</i>	

Specifications subject to change without notice.

