

# Low Inertia TENSION SENSOR

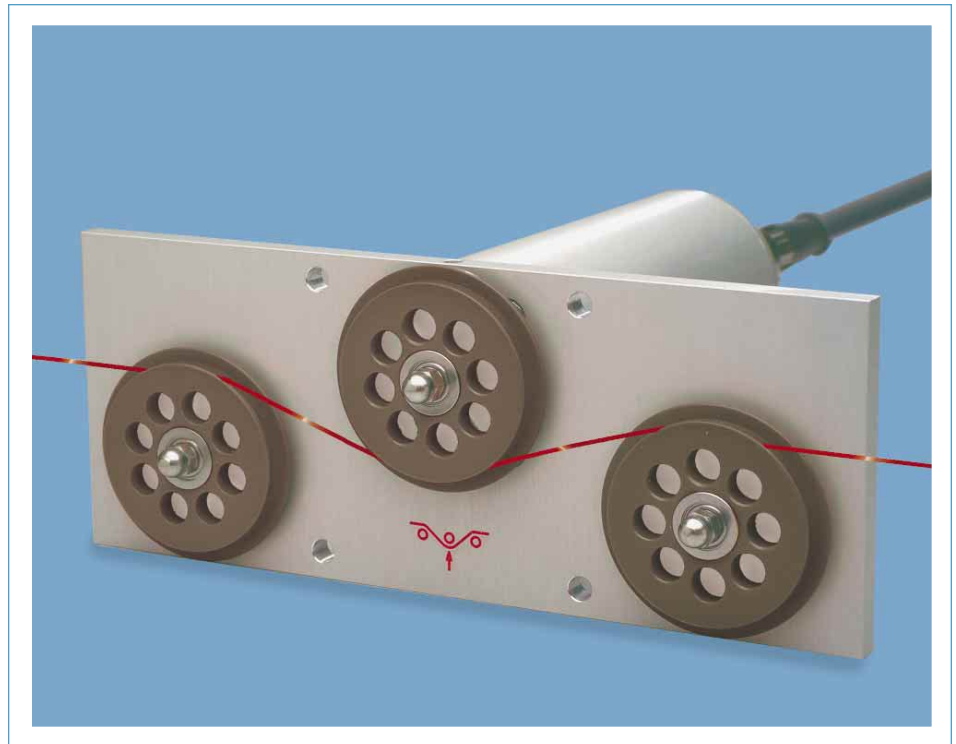
## Model TE-22

5 Tension Ranges  
0–50 g up to 0–1000 g

Lightweight 32 mm diameter rollers miniize the deflection of the material path for fragile filaments or very low tension applications.

A built-in amplifier conditions the strain gauge signal, providing a 0–1 VDC output, minimizing the chance for signal interference.

Other important features include user-accessible calibration adjustment pots and gold-plated contacts on the connector.

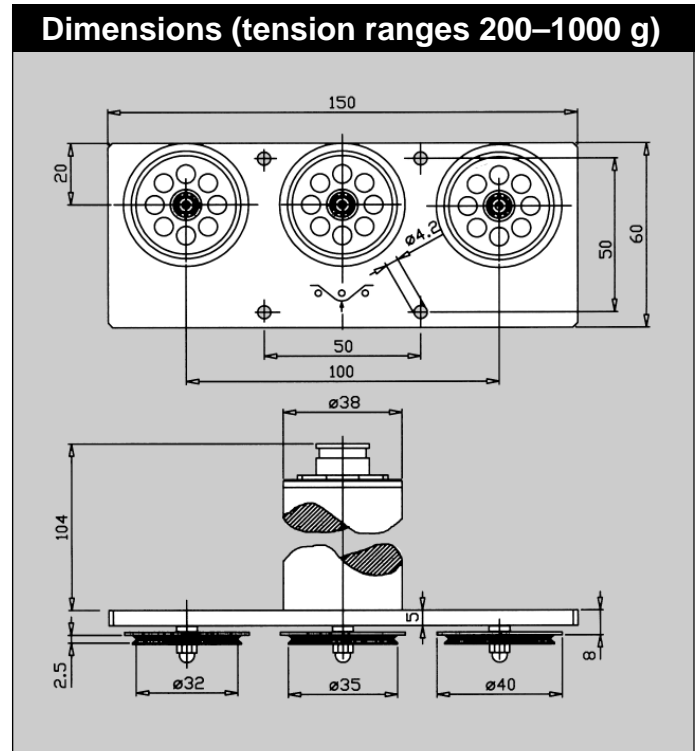
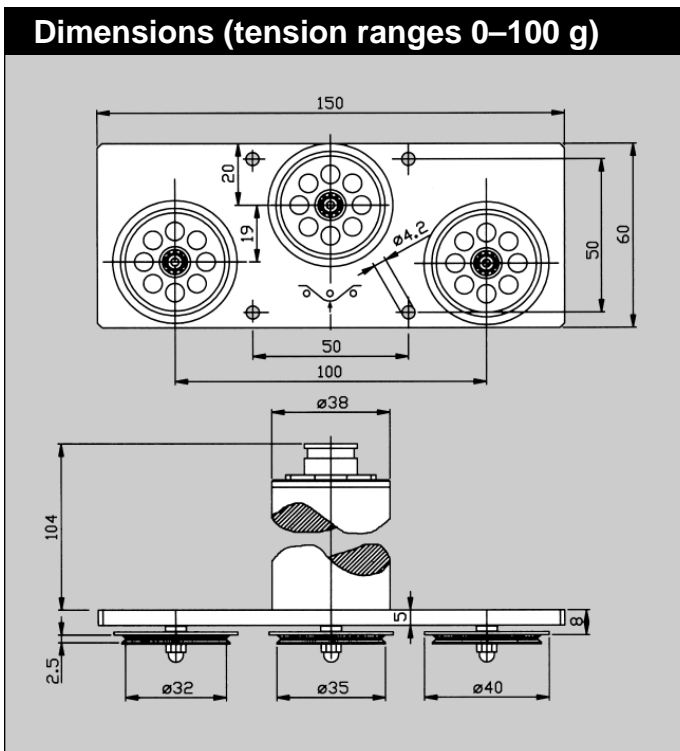


### FEATURES

- Lightweight 32 mm diameter rollers are offered in aluminum or delrin plastic (optional “PL”)
- Precision strain gauge sensing for highest accuracy and repeatability
- 0–1 VDC output, proportional to tension (0–10 VDC optional)
- Frequency response of 100 Hz
- Surface mount electronics provide long-term reliability
- Optional 5 ft. cable, TE-CABLE-CC is recommended. Longer lengths are available.

### TENSION RANGES

Model #	TE-50-22	TE-100-22	TE-200-22	TE-500-22	TE-1K-22
Range	0–50 g	0–100 g	0–200 g	0–500 g	0–1000 g



All dimensions in mm.

**Specifications**

<b>Accuracy</b>	±1.5% FS or better
<b>Sensor Excitation</b>	12–18 VDC, 21mA
<b>Middle Roller Deflection</b>	0.5 mm (maximum)
<b>Sensor Output</b>	0–1 VDC (standard), 0–10 VDC (optional), proportional to tension
<b>Overload Rating</b>	150% FS
<b>Housing Material</b>	Aluminum

<b>Spacing of Outer Rollers</b>	See dimensions above
<b>Roller Diameter (Root)</b>	32 mm
<b>Roller Material</b>	Aluminum (standard) Plastic (optional)
<b>Maximum Linear Speed</b>	4000 m/min
<b>Operating Temp.</b>	40 to 105 °F (5–40 °C)

Specifications subject to change without notice.

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