

# Low Inertia TENSION SENSOR

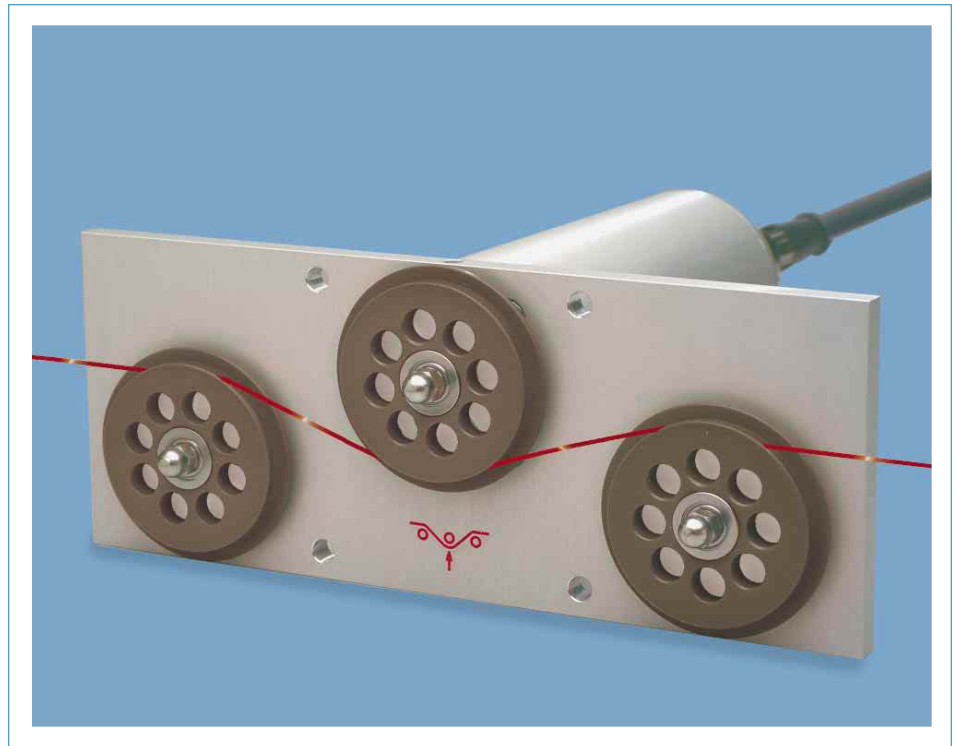
## Model TE-22

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

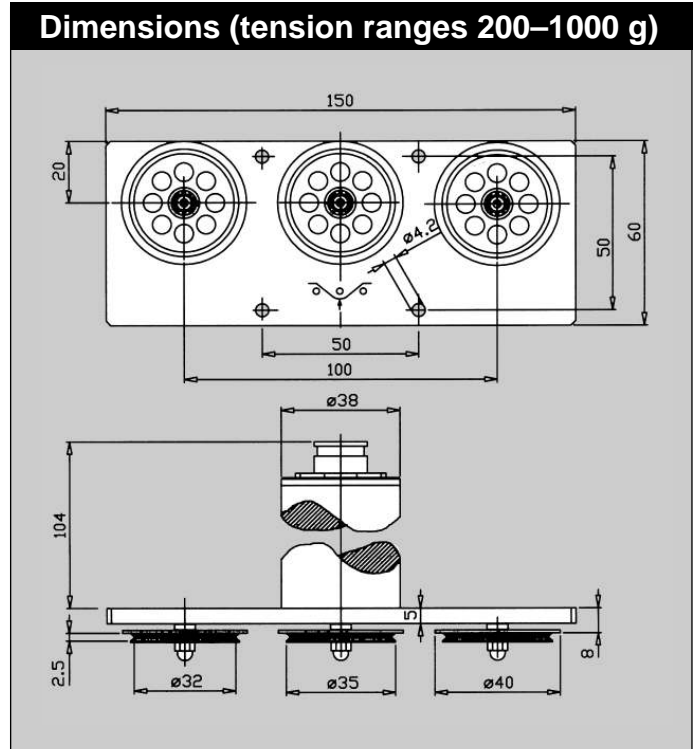
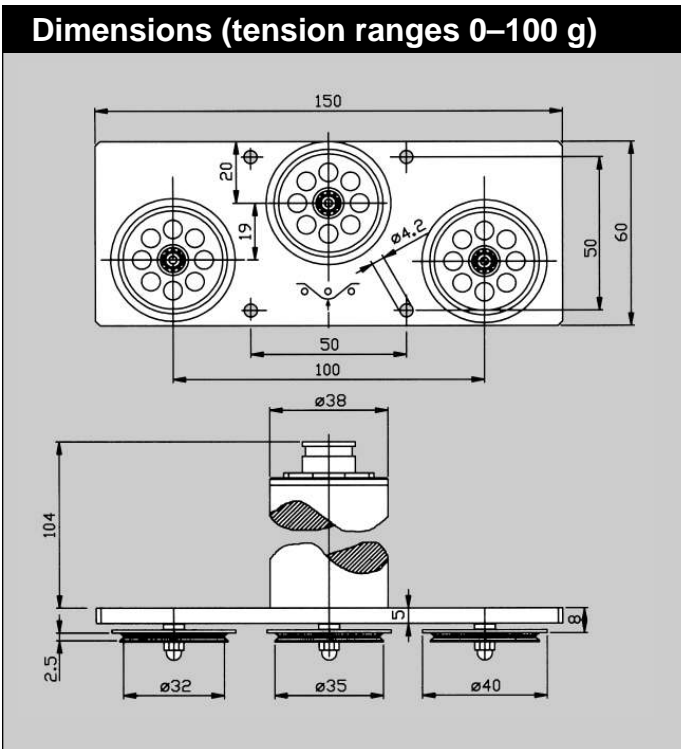
- Lightweight 32 mm diameter rollers are offered in aluminum or delrin plastic (optional “PL”)
- Precision strain gauge sensing for highest accuracy and repeatability
- 0–1 VDC output, proportional to tension (0–10 VDC optional)
- Frequency response of 100 Hz
- Surface mount electronics provide long-term 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 |

# MODEL TE-22

# TECHNICAL DATA & SPECIFICATIONS



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),<br>0–10 VDC (optional),<br>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)<br>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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