

Low Inertia TENSION SENSOR

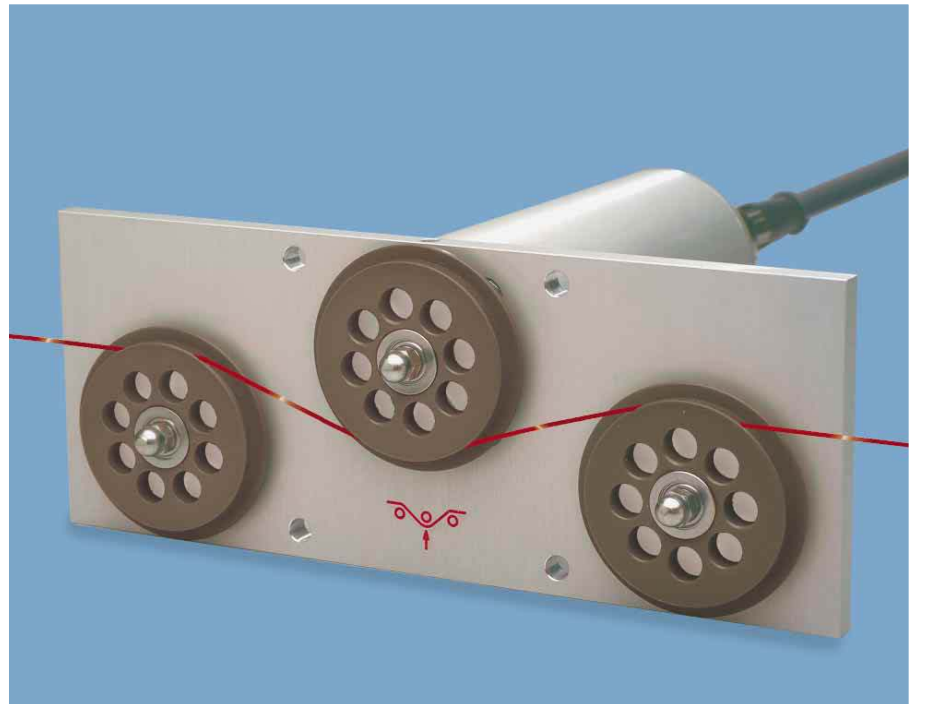
Model TE-22

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.

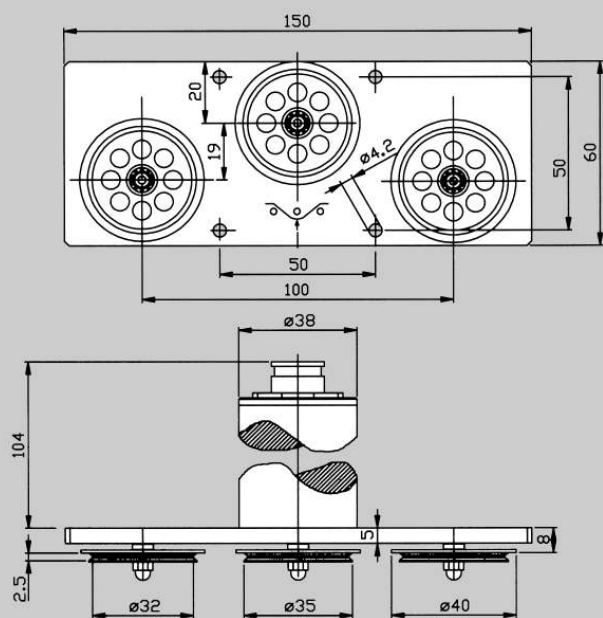
TENSION RANGES

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

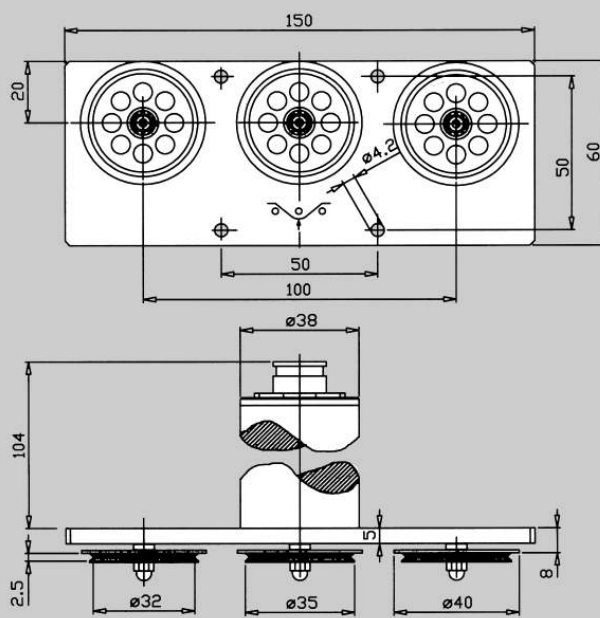
MODEL TE-22

TECHNICAL DATA & SPECIFICATIONS

Dimensions (tension ranges 0–100 g)



Dimensions (tension ranges 200–1000 g)



All dimensions in mm.

Specifications

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

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

Specifications subject to change without notice.

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