

Heavy-Duty TENSION SENSOR

Model TE-24

6 Tension Ranges
0–1000 g up to 0–50.0 Kg

Heavy-duty, hardened steel rollers makes this model especially suitable for tire cord, wires and similar filaments to high-impact loading.

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



FEATURES

- Precision strain gauge sensing insures highest accuracy and repeatability
- 30 mm hardened steel rollers are rated for linear speeds up to 2400 m /min
- 0–1 V DC output, proportional to tension (0–10 V DC 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.
- Custom configurations can be supplied to meet nearly any application requirement
- Sensor can be easily mounted using four holes in front panel or using a “collar” around the cylindrical sensor body.

TENSION RANGES

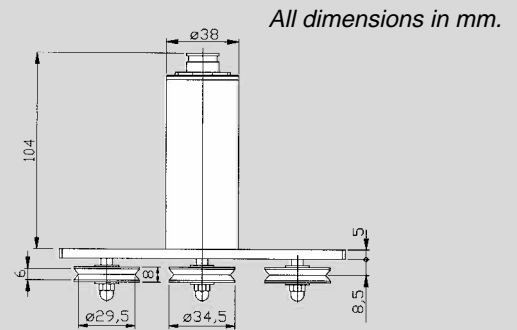
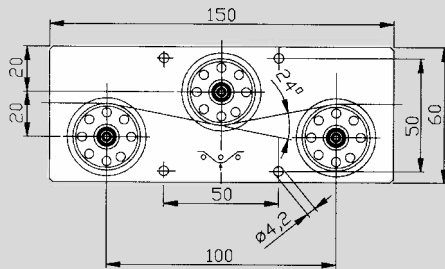
Model #	TE-1K-24-01	TE-2K-24-01	TE-5K-24-03	TE-10K-24-03	TE-20K-24-04	TE-50K-24-04
Range	0–1000 g	0–2000 g*	0–5.00 Kg	0–10.00 Kg	0–20.00 Kg	0–50.0 Kg

* Can be supplied with a “03” configuration for wire applications.

MODEL TE-24

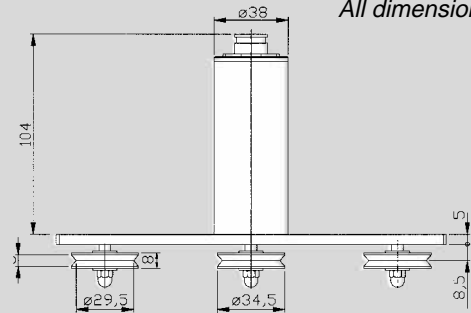
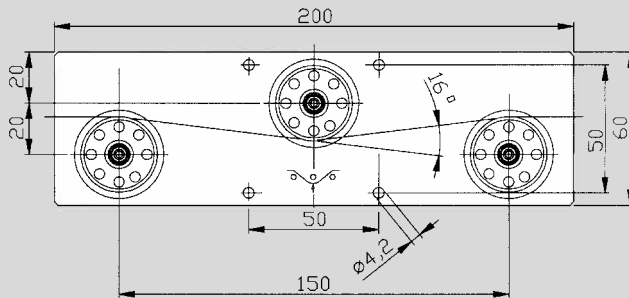
TECHNICAL DATA & SPECIFICATIONS

Dimensions – Models TE-XX-24-01



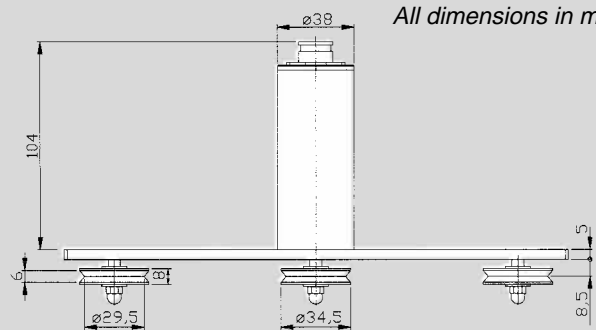
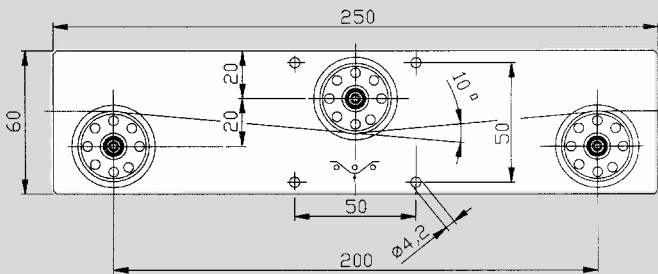
All dimensions in mm.

Dimensions – Model TE-XX-24-03



All dimensions in mm.

Dimensions – Model TE-XX-24-04



All dimensions in mm.

Specifications

Accuracy	±1.5% FS or better
Sensor Excitation	12–18 V DC, 21mA
Middle Roller Deflection	0.5mm (maximum)
Sensor Output	0–1 V DC (standard), 0–10 V DC (optional), proportional to tension
Overload Rating	200% FS

Housing Material	Aluminum
Spacing of Outer Rollers	See dimensions above
Roller Diameter (Root)	29.5 mm
Roller Material	Hardened Steel
Maximum Linear Speed	2400 m/min
Operating Temperature	40 to 105 °F (5–40 °C)

Specifications subject to change without notice.

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