

General Purpose 3-ROLLER TENSION SENSORS

Model TE

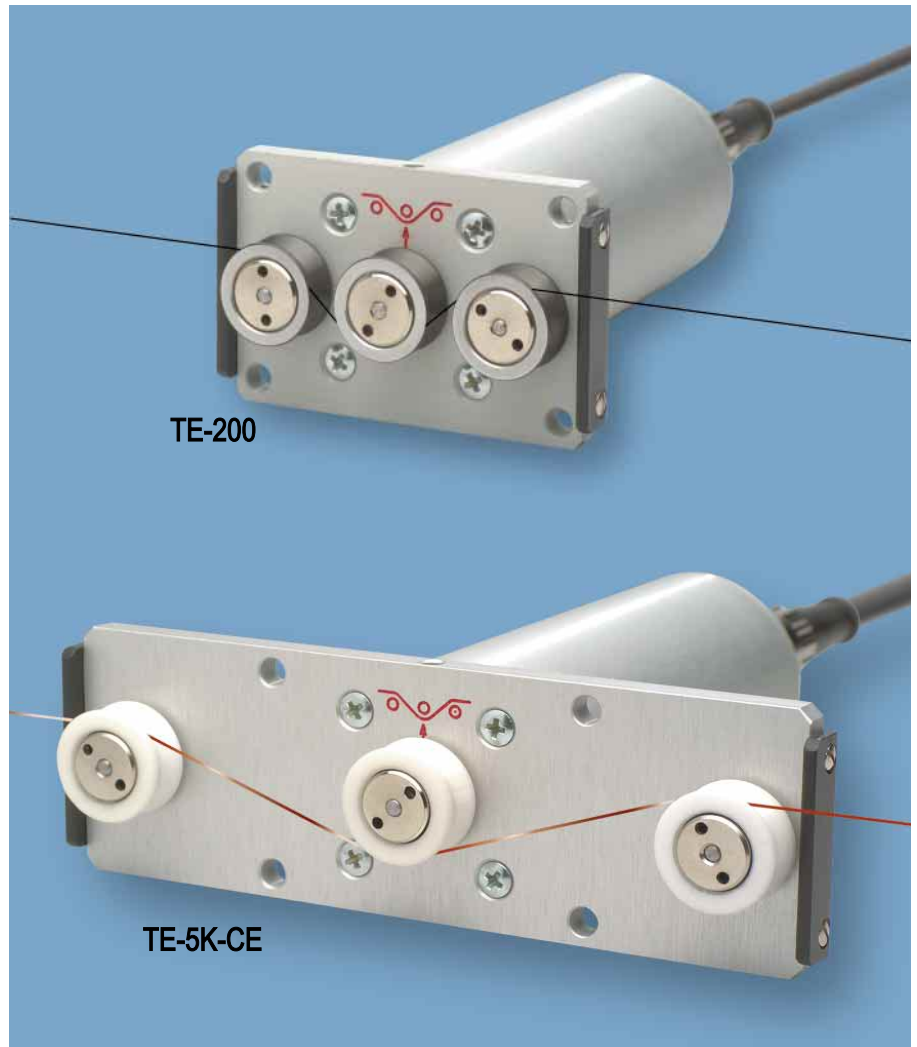
10 Tension Ranges
0–50 g up to 0–50.0 Kg

Accurately measure the running line tensions of yarns, fibers, wires, and similar filaments. Compact size for easy installation.

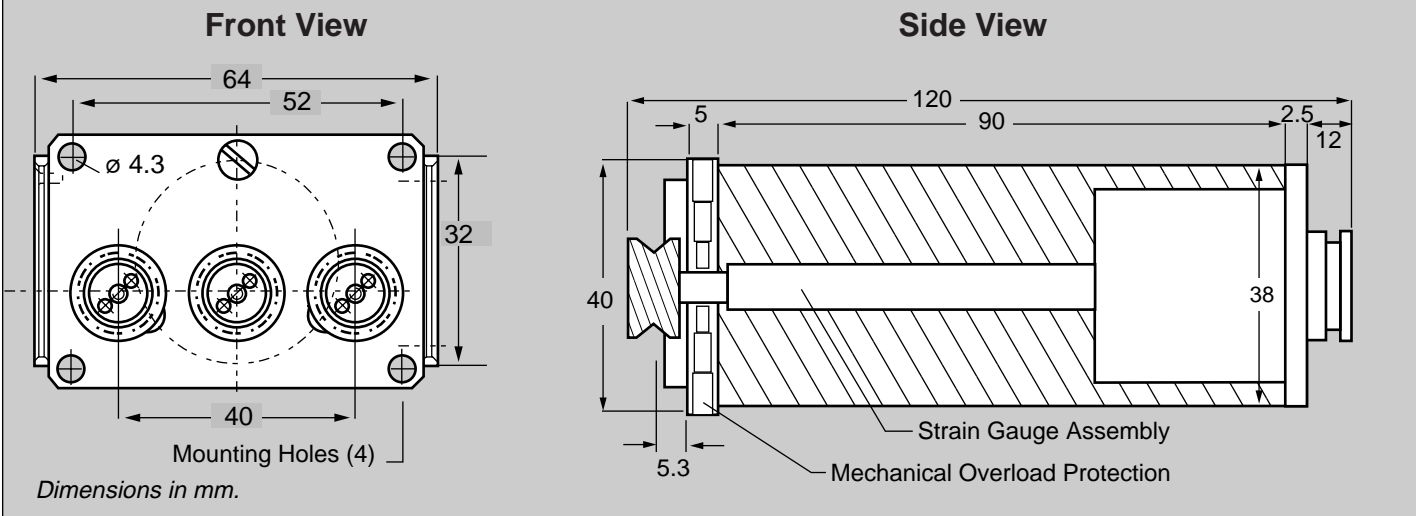
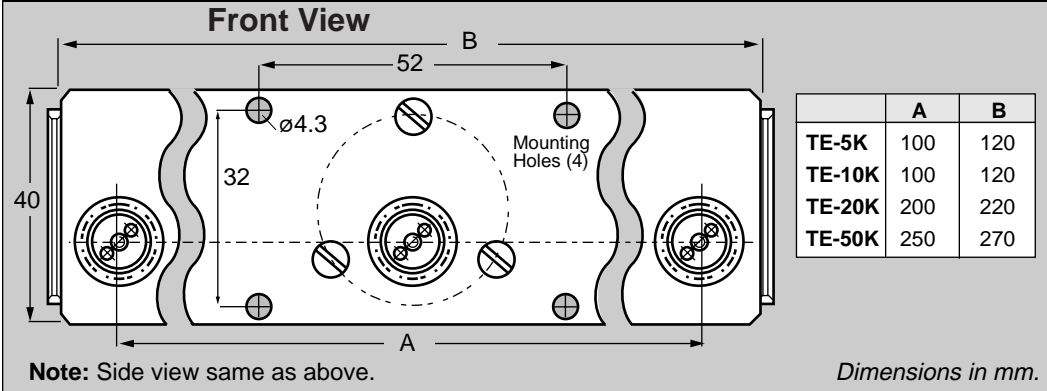
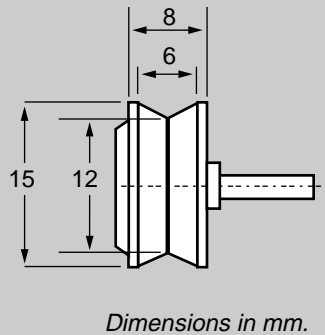
Built-in signal conditioning with ZERO and SPAN pots provide a high-level, analog output to minimize the chance for signal interference.

FEATURES

- Precision strain gauge sensing for highest accuracy and repeatability
- 0–1 V DC output, proportional to tension (0–10 V DC optional)
- Frequency response of 100 Hz
- Roller shells are available in chrome-plated steel, hard-coated aluminum, plastic and ceramic
- Optional 5 ft. cable, TE-CABLE-CC is recommended. Longer lengths are available.



TENSION RANGES	
Part #	Measuring Range
TE-50	0 – 50.0 g 0 –
TE-100	100.0 g 0 –
TE-200	200.0 g 0 – 500
TE-500	g
TE-1K	0 – 1000 g 0 –
TE-2K	2000 g 0 – 5.00
TE-5K	Kg 0 – 10.00 Kg
TE-10K	0 – 20.00 Kg 0
TE-20K	– 50.0 Kg
TE-50K	

Dimensions – Models up to 2000 g

Dimensions – Models 5 Kg up to 50 Kg

Standard Roller

Specifications

Accuracy	±1.5% FS or better	Spacing of Outer Rollers	40, 100, 150, 200 & 250mm, see dimensions above
Sensor Excitation	12–18 VDC, 21mA	Roller Shell Material	
Middle Roller Deflection	0.5mm (maximum)	Standard	Hardened Steel
Sensor Output	0–1 V DC (standard), 0–10 V DC (optional), proportional to tension	Optional	Chrome-plated Steel (CH) Hard-coat Aluminum (AL) Plastic (PL) Ceramic (CE)
Overload Rating	150% FS	Maximum Linear Speed	1000 m/min
Housing Material	Aluminum	with “K” option	3000 m/min
Operating Temp.	40 to 105 °F (5–40 °C)	with “U” option	5000 m/min

Specifications subject to change without notice.