

General Purpose 3-ROLLER TENSION SENSORS

Model TE

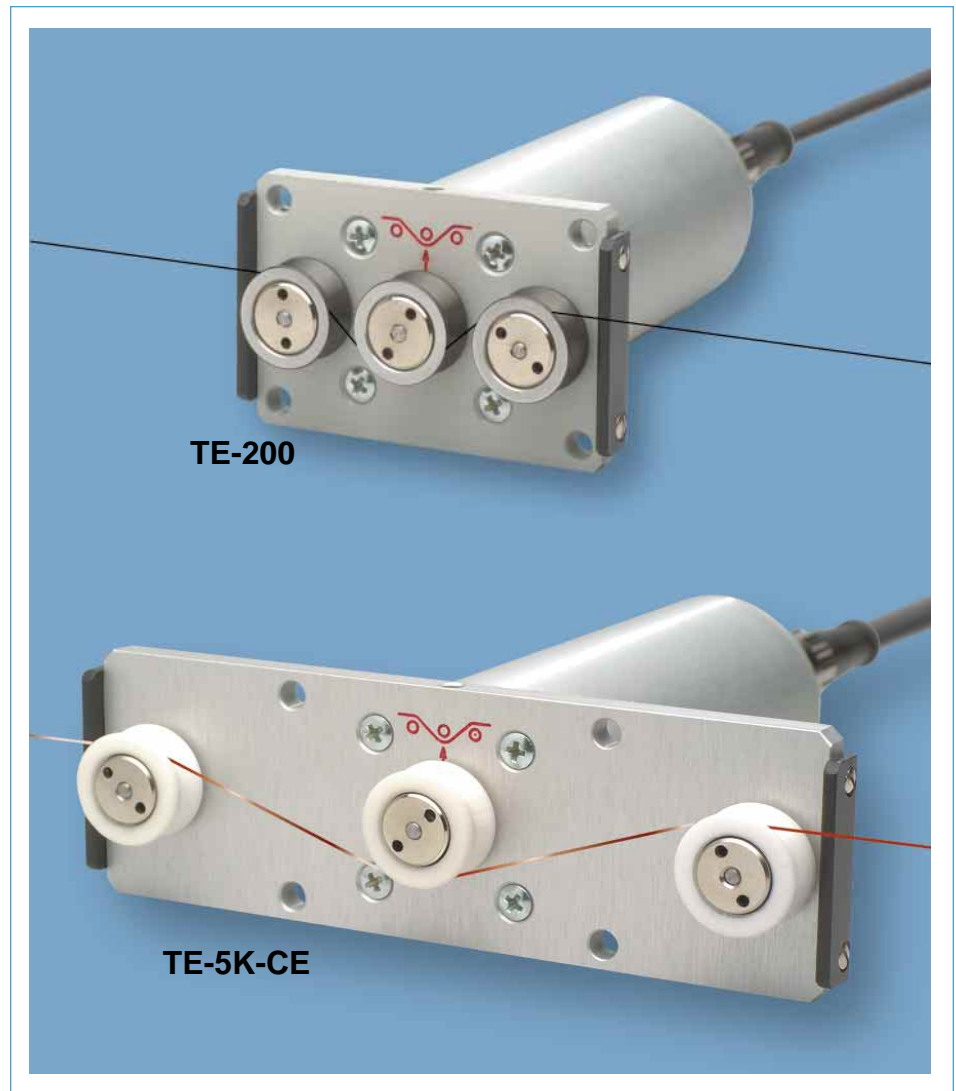
10 Tension Ranges
0–50 g up to 0–50.0 Kg

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

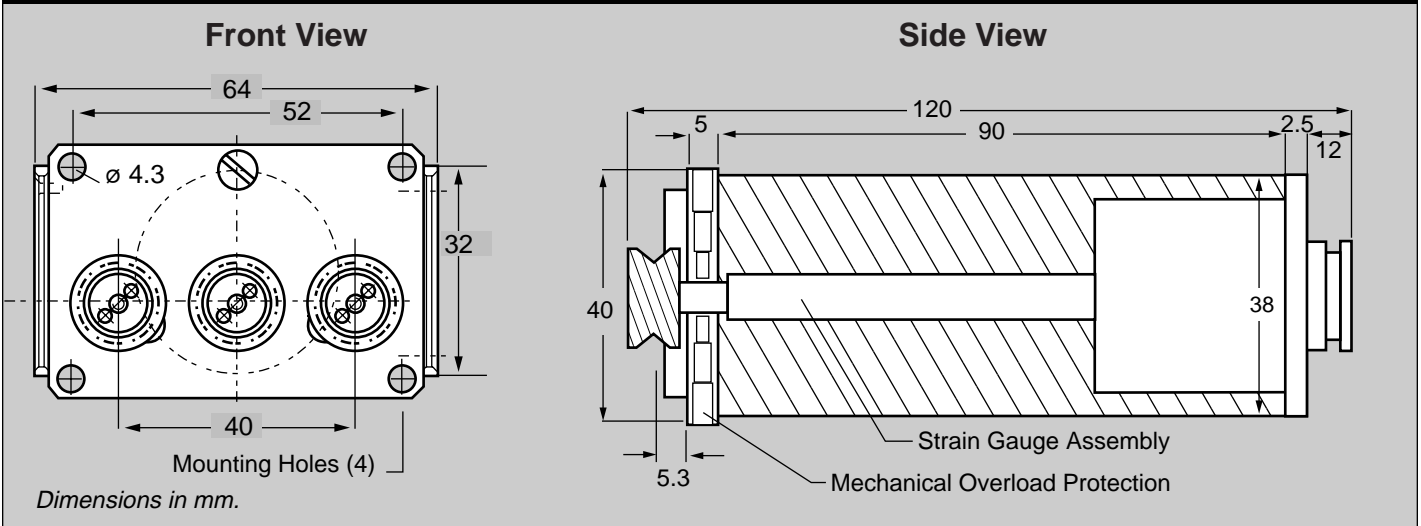
- Precision strain gauge sensing for highest accuracy and repeatability
- 0–1 V DC output, proportional to tension (0–10 V DC optional)
- Frequency response of 100 Hz
- Roller shells are available in chrome-plated steel, hard-coated aluminum, plastic and ceramic
- Optional 5 ft. cable, TE-CABLE-CC is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



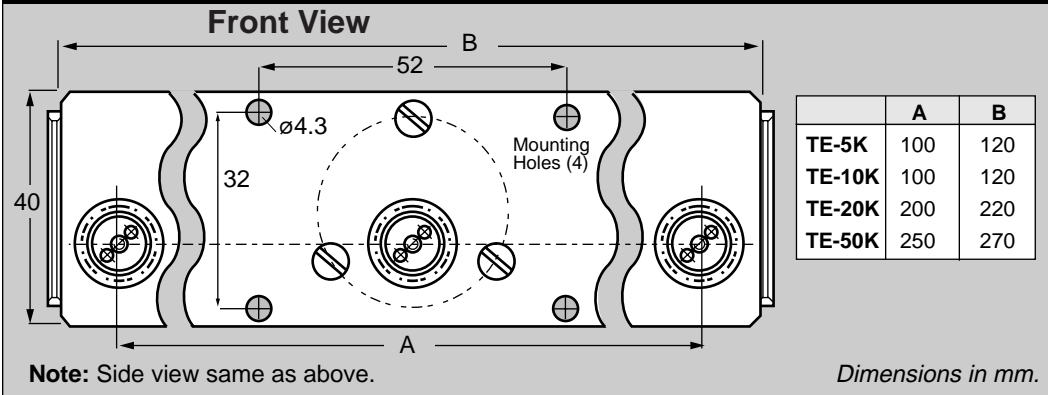
TENSION RANGES

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

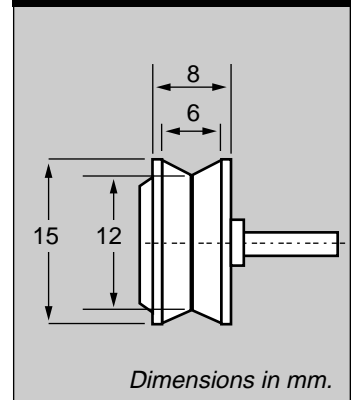
Dimensions – Models up to 2000 g



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.

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