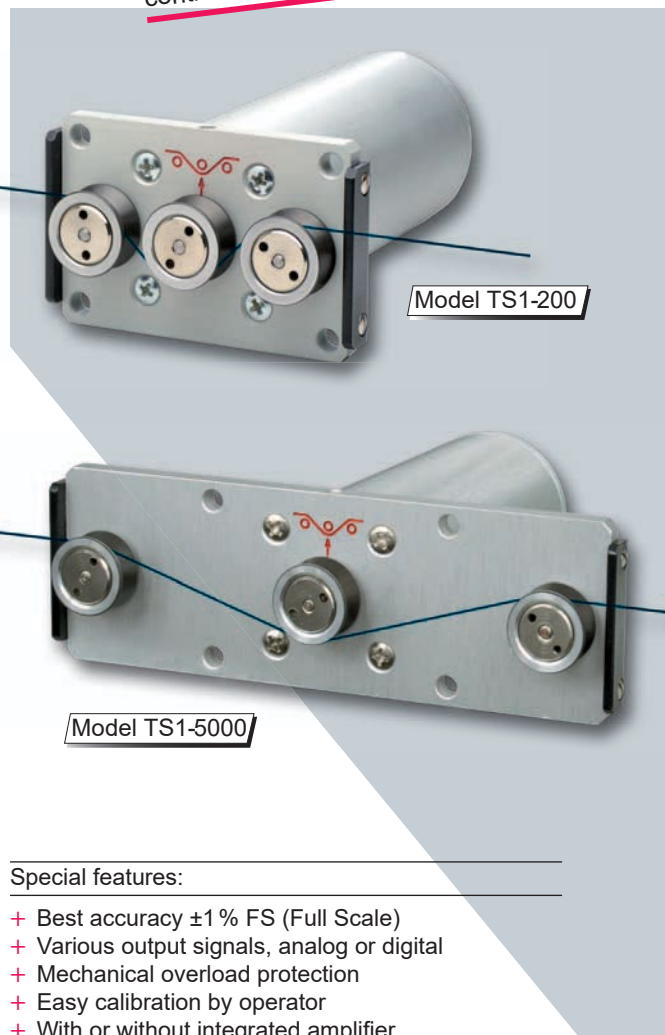




TS SERIES

Sensors for many applications

Universal sensor for continuous measurement



Model TS1-200

Model TS1-5000

Special features:

- + Best accuracy $\pm 1\%$ FS (Full Scale)
- + Various output signals, analog or digital
- + Mechanical overload protection
- + Easy calibration by operator
- + With or without integrated amplifier
- + Wide variety of custom designed sensors are available

Standard features:

- Ball-bearing mounted, V-grooved guide rollers
- Rugged aluminium housing
- Power supply: +15 ... 24 V DC (1-phase, regulated)
- Inspection Certificate with Calibration Report optionally available

Specifications

→ see page D 14 →

Special calibration using customer supplied samples is available:
Please supply a sample of at least 5 m in length.

D Stationary, electronic
TS Series



Universal online tension sensor
for yarns, fibers, thin wires, etc.

Model TS1

10 Tension ranges from 0-50 cN to 0-50 daN

Available Models

MODEL	Tension Ranges cN	Measuring Head Width* mm	SCHMIDT Calibration Material**
TS1-50	0-50	64	PA: 0.12 mm Ø
TS1-100	0-100	64	PA: 0.12 mm Ø
TS1-200	0-200	64	PA: 0.12 mm Ø
TS1-500	0-500	64	PA: 0.20 mm Ø
TS1-1000	0-1000	64	PA: 0.30 mm Ø
TS1-2000	0-2000	124	PA: 0.50 mm Ø
TS1-5000	0-5000	124	PA: 0.80 mm Ø
TS1-10K	0-10 daN	124	PA: 1.00 mm Ø
TS1-20K	0-20 daN	224	PA: 1.50 mm Ø
TS1-50K	0-50 daN	224	Steel rope 1.50 mm Ø

Other tension ranges and measuring head widths available on request.

Other units of measure available – g or kg.

* Outside dimensions of front plate

** Suitable for 95 % of applications (see also chart on page 11)

PA = Polyamide Monofilament

Guide Rollers

V-grooved	Line Speed v_{max} ... m/min	Roller Material
Standard	2000	Hard-coated aluminium
Code K	3500	Hard-coated aluminium
Code H	5000	Plasma-coated aluminium (for Model TS 1-100 and higher ranges)
Code T	1000	Plastic (POM) black
Code W	1000	Nickel-plated steel
Code ST	1000	Hardened steel
Code B	1000	Tempered steel for tire cord
Code CE2	1000	Aluminium ceramic-coated
Code ASY	1000	Hard-coated aluminium*
Code ASYB	1000	Tempered steel for tire cord*

asymmetrical groove

U-grooved

Code U	2000	Hard-coated aluminium*
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* Measuring head width 124 mm
for model TS 1-500 and higher ranges

→ see page E →

Output Signal

Standard	Analog output signal 0-1 V DC
Code A2	Analog output signal 0-10 V DC
Code A3	Current output signal 4-20 mA
Code A10	Analog DMS output mV/without amplifier