

# ***Eltex Tension Monitor, ETM Solo***



## ***General Description***

The Eltex ETM Solo is an on-line device designed for continuous monitoring of the yarn tension on textile machines.

The ETM Solo communicates via a digital bus system or an analog output.

The yarn tension is measured as a force on the sensing element. The yarn angle across the element is predetermined by two ceramic guide bars. The necessary deviation is kept as small as possible. The yarn guides allow the yarn to enter and leave the unit at any angle.

Fast sensor response enables monitoring of rapid changes in yarn tension. This allows it to be used, for instance, as a sensor for automatic control of yarn brakes.

## ***Features***

- Monitors the yarn tension continuously
- The yarn can enter and leave the sensor at any angle
- Robust design
- Replaceable guide eyelets
- LED for status indication

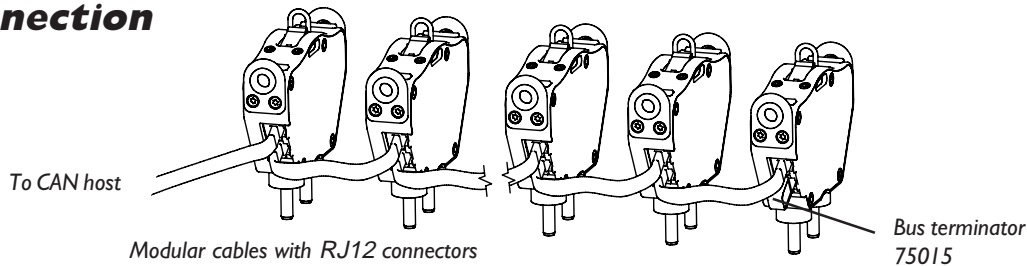
## ***Advantages***

- Improves production efficiency
- Improves production quality
- Simplifies setting of the yarn brakes
- Allows repeated style changes more efficiently and accurately
- Flash memory technique – future software upgrade possible
- Overload protection
- Easy wiring with common cables/connectors

## ***Application examples***

- Weaving, warping, winding machines
- Sensor for brake control

## Connection



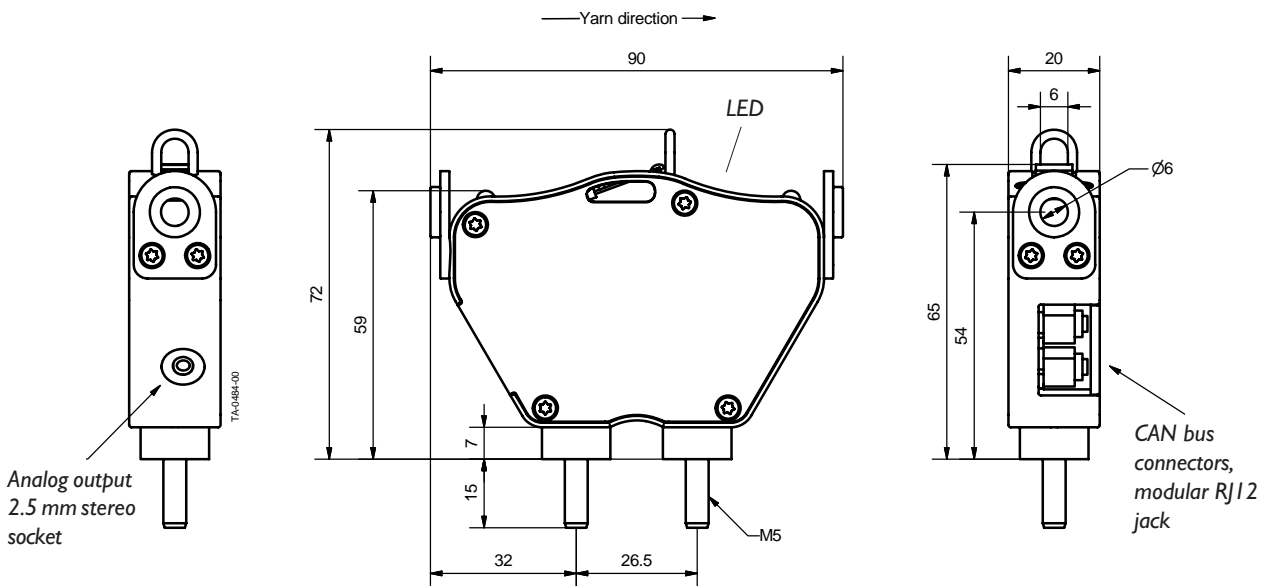
## Characteristics

Supply voltage	10–26 V DC
Maximum current consumption	80 mA
Yarn tension range	0–1000 cN
Resolution	< 1 cN
Accuracy	±1.8% of full range
Band width	1 kHz
Ambient working temperature	+10–40°C
Communication	digital via CAN bus and analog 0–5 V DC
Bus connection	maximum 16 sensors on each bus
Dimensions	90 x 72 x 20 mm + screws

## Models

- 56000 Yarn tension sensor single channel, 1000 cN, 500 kbit CAN, analog out 0–5 V  
 56001 Yarn tension sensor single channel, 1000 cN, 1Mbit CAN

## Dimensions



Patents: SE 517300, Europe 1005435

Declaration of Conformity according to the EMC Directive 89/336/EEC: EN61000-6-4, EN61000-6-2

We reserve the right to modify the design without notice.



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