Eltex Tension Monitor, ETM Solo

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

Application examples

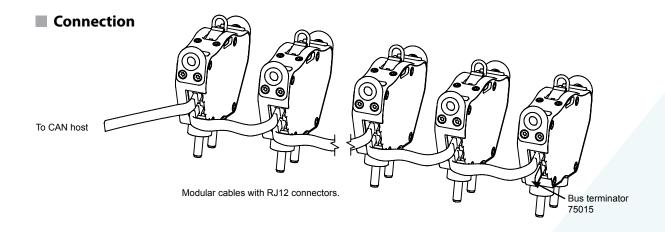
- Weaving, warping, winding machines
- · Sensor for brake control

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 downwards and upwards
- · Easy wiring with common cables/connectors







■ Technical features

Supply voltage10-26 V DCMaximum current consumption80 mA

Yarn tension range 0–1000 cN Resolution < 1 cN

Accuracy $\pm 1.8\%$ 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

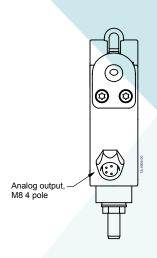
56004 Yarn tension sensor single channel, 1000cN, 500kbit CAN, analog output 0-5 V, M8 connector

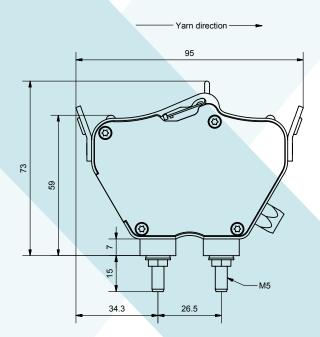
56007 Yarn tension sensor single channel, 1000cN, 1Mbit CAN

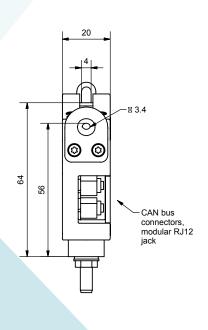
56074 Yarn tension sensor single channel, 2500cN, 500kbit CAN, analog output 0-5 V, M8 connector

56075 Yarn tension sensor single channel, 2500cN, 1Mbit CAN, analog output 0-5 V, M8 connector

Dimensions (mm)







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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