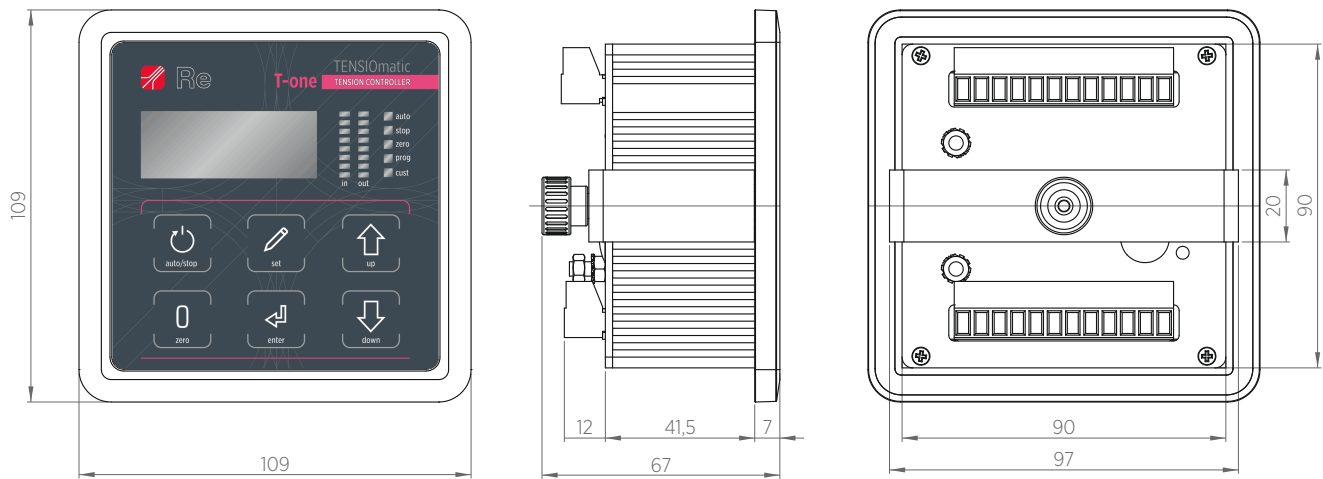# T-ONE ULS

TENSION CONTROLLER

- ✔ Control of closed-loop and combined systems
- ✔ Regulation in torque
- ✔ Control with diametral sensor
- ✔ Can be used both with brake or clutch
- ✔ Compact design
- ✔ Ease of use and calibration

T-one is a tension controller specifically designed for the web tension control in closed-loop and combined systems; extreme ease of use and compactness are the main features of the tension controller. The core of T-one is the P.I.D. algorithm, which has been improved in speed and accuracy.
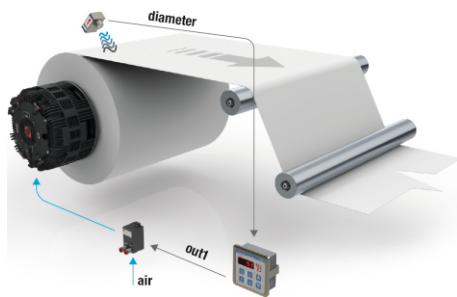
The interface with 6 buttons and 4 digit is easy to use and allows to smoothly control and set up the desired parameters to obtain the best results.

T-one ULS is used in open-loop systems combined with a diametral sensor which reads the distance from the reel. The signal of the ultrasonic sensor is processed by the T-one, which, controlling the brake or clutch torque with an open-loop obtains a precise and constant web tension. This system can regulate the torque in acceleration, deceleration and is equipped with SELEMATIC and TAPER-TENSION functions.

TECHNICAL DRAWING

APPLICATIONS

Regulation in torque with
diametral sensor (open-loop)

TECHNICAL DATA

Power supply	24 Vdc
Power	8 W max
Analog inputs 0÷10 V	1 diameter or remote setpoint
Digital inputs 24 V	2 remote controls
Analog output 0÷10 V / 4÷20 mA	1 open-loop torque control
Analog output 0÷10 V	1 diameter proportional
Digital relay output 24 Vdc /24 Vac	2 for alarms
Weight	400 g
Working temperature	0÷50°C
IP protection class	IP 20 (case) IP 52 (frontal panel)
Dimensions	109 x 109 x 67 mm

*Data are subject to technical change without notice