

Central control unit 15130



General description

The Eltex multithread system is designed to monitor a number of simultaneously moving threads or wires. The central control unit provides a low voltage supply for the signal givers (yarn break sensors). It is equipped with sensi-

tivity adjustment for all signal givers in the system. The central control unit also coordinates the signal from the signal givers and will give a stop signal to the machine or a warning signal depending on how it is connected.

Application

- Central control unit for up to 100 latching signal givers.
- Central control unit for up to 100 SMG signal givers (max. 1800 eyelets).

Technical features

LED's to indicate:

- when the unit is sensing.
- if the unit is not sensing because the inhibit input is activated.
- if the unit has stopped because of broken thread.
- if the unit has stopped because of false switch setting (ANTI-check).

With the **running mode input**: the central control unit detects if the machine is running or not. The sensing of the yarn cannot normally be switched on immediately when the machine is started as the speed of the thread or wire is too low. With a DIP-switch on the board the unit can be set to start sensing after a delay or when the speed is above a threshold value.

By **start delay** the running mode input will be connected to a contact on the machine that closes when the machine starts. This will activate the start delay, set by the potentiometer on the central control unit. When the start delay time is over the sensing will start.

By **speed dependent sensing** the central control unit will switch on the sensing as soon as the machine speed is above a preset threshold value. If the machine speed decreases under that value the sensing will be switched off again. The machine speed, at which the sensing starts, will be set by a potentiometer.

With the **inhibit input** it is possible to make a pause in the sensing while the machine is running. If the inhibit input is not used it can be left open.

The **anti-check function** tests on all signal givers once, shortly after the machine has been started. If any signal giver has its switch in the off position and still has a thread moving in the eyelet, the unit will stop and the "ANTI CHECK" LED will light up. With the DIP-switch the function can be changed to continuous anti-check or it can be switched off completely.

The unit has **two output relays**:

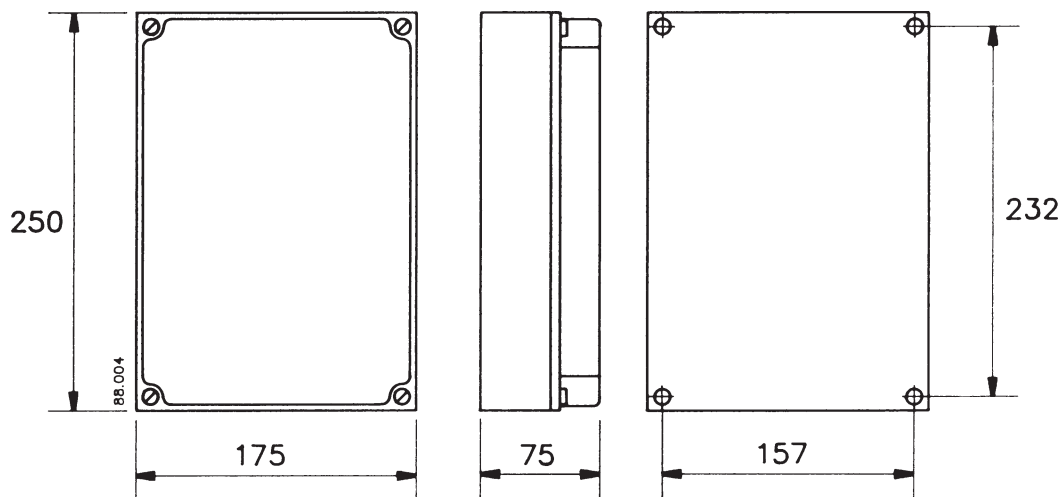
When the unit detects a fault, the **stop relay** will be deenergized for approximately 1 sec.

The **indication relay** will be energized at a thread or wire fault and it will stay energized until the machine is restarted.

Technical data

Supply voltage	230, 290, 400, 440 or 550 V AC
Relay contact load	2 x 1 A / 125 V AC or 2 x 2 A / 30 V DC
Box material	Grey polycarbonate with transparent cover

Measures (mm)



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