## ELTEX optical weft stop motion



## Weft sensor

The optical weft sensor is of reflecting type. The weft sensor should be fitted on the front of the reed. It will not damage the reed. The weft sensor has a set of optical components enabling the detection of the weft across the entire air channel.

The size of the optical weft sensor, the angles of the optical components and the sensor support must be made according to the space available on the weaving machine and to the design of the reed.

## Central control unit 22000

The central control unit is equipped with two channels and two inputs for weft sensors. The second channel is used for an ANTI weft sensor. This weft sensor should be placed on the reed, at a point the weft yarn does not reach, unless the weft is broken.

The central control unit can detect both a positive and a negative change of the sensor signal. This means that both light and dark coloured yarns can be detected.



## Functions and specifications

Power supply 24 V DC

Relay stop output The relay is normally energized. It drops for I second when a weft fault

occurs.

Max load on relay contacts: 2 x IA / I25V AC or

2 x 2A / 30 V DC

**Size** Europe size board 100 x 160 mm.

Equipped with a Europe connector DIN 41612 series D, 32 poles

**Electronic stop** output

An open collector output is also available. The output is short circuit to ground during 1 second when a weft fault occurs. Max load is 100 mA.

Yarn arrival output

One output for each channel is available notifying the arrival time of the yarn. The pulse is 50 ms long and the positive edge is synchronised with the arrival

time of the yarn.

Input synchronising switch

To use the stop outputs on the central control unit, the unit must be synchronised with the machine. This can be done with a proximity switch or with an Eltex light switch. A positive pulse defines the time frame when the weft yarn arrival is expected. The yarn arrival outputs are available also when no synchronising switch is used.

**function** 

Syncronising switch With a connection shunt on the printed circuit board the input can be set to suit a NPN or a PNP type proximity switch. If Eltex light switch is used, select the NPN position.

Idle pick input

An input to inhibit the stop outputs. This is used when the machine is weaving without weft (fringing).

**ON/OFF** switch

When the switch is OFF the stop outputs are inhibited. The machine can then run without weft.

Other functions of the unit is still active.

**ANTI** switch

The switch will switch the ANTI weft sensor on or off.

Filter switch

On models where the second channel is used to detect if the weft yarn is passing too far out, this channel can be set so that it is less sensitive for dust particles passing the weft sensor. The switch has three positions.

**LED** indicators

There are five LED indicators:

- Stop channel 1 - Stop channel 2

- Signal from weft sensor channel 1 - Signal from weft sensor channel 2 - Signal from synchronising switch.

**Sensitivity** 

A potentiometer is available to set the sensitivity in each channel.

**Test socket** 

A five pole test socket is available with the following connections:

- Internal power +12 V DC

- Ground connection

- Signal from synchronising switch - Yarn arrival output channel 1 - Yarn arrival output channel 2



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