

# **Eltex EYE Master Control Unit**

#### **Specifications and connection**

## **General Description**

Eltex Yarn Expert (EYE) is a very flexible and versatile yarn detection system. The functions and features of the Control Units, sensors and operator terminal are software controlled. Thus the system can be applied and configured for a great number of different machines and applications, e.g. tufting machines, creels, winding machines, heat set machines, etc.



The EYE Master Control Unit (MCU) 11700/11701 can handle up to 96 sensors (6 x 16 sensors).

The sensors are connected to the MCU via the 6 LIN inputs.

With EYE sensors the maximum number of eyelets is 864. With Compact sensors the maximum number of eyelets is 1536. When more positions are needed, Slave Control Units (SCU) can be installed.

The unit has six digital inputs and six digital outputs, plus two digital pulse inputs. The MCU can handle up to six different machines, each with individual start and stop signals.

Also available on the MCU are: a Modbus connection for operator terminal, a CAN bus for system expansion with SCU or connection of ETM Solo sensors, a MMC or SD memory card reader for data storage and software upgrades.

Model 11701 also has an Ethernet connection (RJ-45).

The SCU does not have digital inputs or Modbus connection.

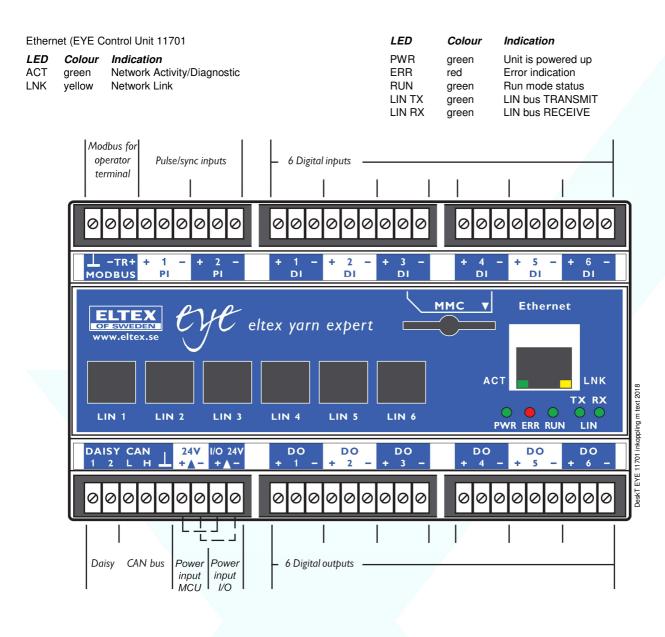
There are two separate 24 V power inputs, one for the EYE MCU and one for the I/O section. If there is no need for isolated I/O, the power inputs can be interconnected (jumpers indicated in the connection diagram).

## Specifications

Eltex part no.

Supply voltage Current consumption Digital outputs Maximum load Digital inputs Ambient working temperature Casing Dimensions 11700 Master Control Unit 11701 — " — (with Ethernet connector) 11702 — " — For ETM EYE (ETM Solo sensors) 11710 Slave Control Unit 11720 — " — For EyETM (ETM sensors with multiple positions) 24 V DC (18–30 V) 100 mA (MCU only, add connected loads) High = (I/O supply voltage -1 V DC). Sourcing 500 mA/output, total max. 2 A 0–5 V DC = low, 15–30 V DC = high +5 ... +40°C DIN rail box 158 x 90 x 58 mm





#### 6 LIN bus modular connectors RJ12

The LIN bus cable is connected with pin 1 to 1 Total cable length for one bus (max. 16 sensors) is maximum 30 m.

Declaration of Conformity according to the EMC Directive 2004/108/EC: EN61000-6-4, EN61000-6-2, EN55011/A2, EN61000-4-2/A2, EN61000-4-3/A1, EN61000-4-4/A2, EN61000-4-6/A1. We reserve the right to modify the design without notice



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