

QTVmini Stop Motion System

General description



The QTVmini + MiniSMG yarn stop motion system is designed to monitor any kind of moving yarns. The unit is designed for systems with 8–180 yarns, like creels for winders, yarn preparation machines and other multi thread applications.

QTVmini is easy to use with a minimum of parameters to adjust.

All settings, and other user information, are displayed on a LCD display.

Sensitivity and start delay are easily set by potentiometers in the central control unit.

Other settings, such as reaction time and learn mode are set via a DIP-switch.

A relearn button is easily accessible on the front side of the unit.

Main features

- The detection is made with piezo electrical elements sensing the yarn movement.
- The sensing unit, which is insensitive to dust and dirt, detects a yarn break in a few milliseconds.
- The number of yarns in operation is shown on the display.
- The number of yarns are counted during a learn period. For a style change the operator activates the learn mode under which the QTVmini system counts the number of yarns. Each eyelet is then switched on or off automatically.
- The system will, at machine start, detect if too many yarns are in operation (Anti function).
- Parameters such as sensitivity and reaction time can easily be set from the central control unit. All settings are common for all sensors.
- Connections are easily made by ribbon cable connectors.

Advantages

- Senses the yarn movement
- Self learning
- Short reaction time
- Easy to set and handle
- Insensitive to dirt
- Accepts all yarn qualities
- Minimum of maintenance
- Possible to stack the sensors
- Self test at power on

Application examples

- Creels for winders
- Yarn preparation machines
- Cable machines
- Heat set machines
- Air entanglement machines

Specifications

System

Power supply	24 V DC \pm 20%
Stopping time	Typical 70 ms
Minimum yarn speed	Approx. 30 m/min

Central control unit, QTVmini 11450

For up to 15 Mini-SMG yarn sensors.

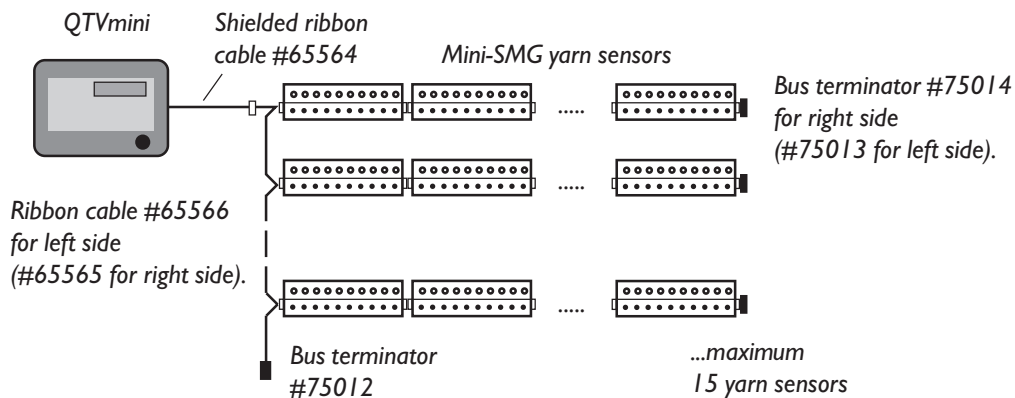
Current consumption	<250 mA (central control unit only)
Inputs	Power supply Yarn sensors Run mode signal External learn button
Outputs	Stop relay
Display	1 x 16 characters, back light LCD

Mini-SMG yarn sensor

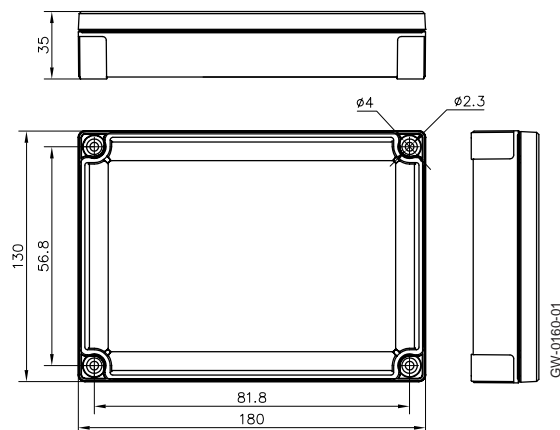
See also separate leaflet for Mini-SMG yarn sensor

Current consumption	65 mA/yarn sensor
Eyelets	Diam. 6 mm, ceramic
Eyelet spacing	15 mm
Scanning speed	Typical 2 ms/eyelet
Outputs	9-pole D-sub connector
Indicators	One red lamp/eyelet for yarn indication. One green lamp/yarn sensor for running mode indication.

Connection



Dimensions, mm



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