

Fraytec FV

The new standard in Broken Filament Monitoring for T&I Processes

Fraytec FV is an upgraded version of the industry standard Fraytec MV providing the same reliable detection and counting of Broken Filaments with a range of substantial improvements including:

Digital Signal Processing	Provides full optimisation of filtering for process speed – eliminating false counts
Multi Language Software	PC software supports multiple Languages including Chinese
Distributed Grading	Provides continuous grading in event of PC Failure
Full Plant Systems	Data Export and Centralised Control / Monitoring of all machines available
Historical Data	Storage of summary data, providing facilities for trend analysis and identification of faulty position
Position Indicator Module	Displays Current Status and Last Pack Grade for each threadline

Fraytec FV Sensors

Reliable detection of individual Broken Filaments down to 5 µm diameter at highest speeds up to 8,000 m/min

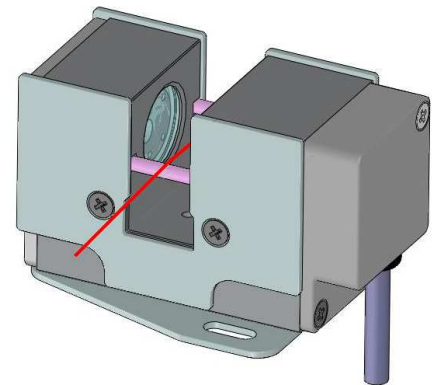
Broken Filament faults measured above and below the yarn with fault trip level at options for 3mm or 6mm OR 4.5mm or 6mm from the yarn

Compact sensor fully sealed design can be fitted to almost all types of machine and fits on same mounting as Fraytec FV sensor.

Installation and threadguides are provided to suit the machine and threadpath arrangement

The sensors automatically monitor their own health and compensate for contamination. In the event of faults an alarm is raised on the PC

For operation in particularly dirty or dusty environments an automatic sensor cleaning system is optionally available.

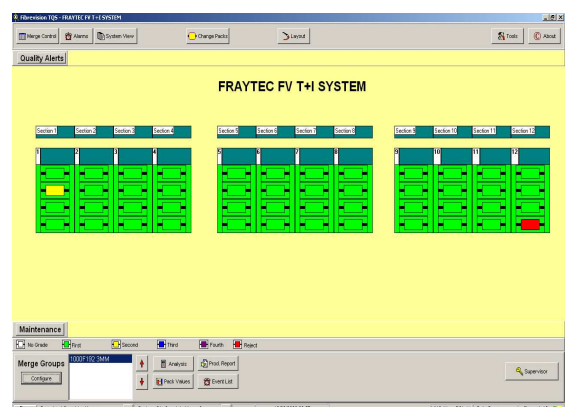


Fraytec FV System Software

PC based system provides a high degree of flexibility with an unlimited number of threadlines per system.

A clear easy to use menu based system provides:

- **Configuration of quality parameters,**
- **Current Quality Status**
- **Current Sensor Status**
- **Report printing**



Upgradeable Option – Fraytec FV Plus

The standard Fraytec FV system can be upgraded to **Fraytec FV Plus** to provide to following functionality:

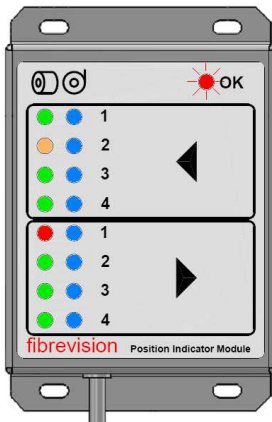
- **BF Fault capture / measurement / grading**
- **Interlace Measurement**

Monitoring Excellence



Position Indicator Module

The Position Indicator Module is the ideal User Interface installed by the winder for efficient and accurate running status / doffed packs quality indication (options for 4 & 8 threadline winders):

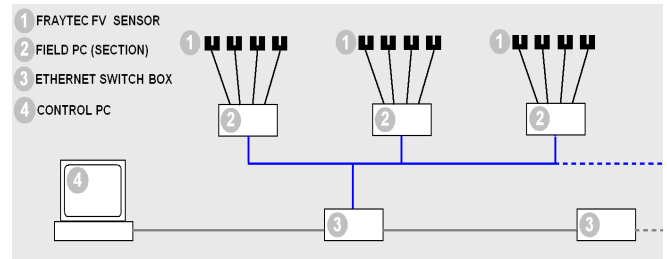


- **Ethernet Comms** – a RED flashing LED indicates Ethernet comms are OK
- **Current Status** – a winder / threadline BLUE indicator LED to indicate:
 - Break / Idle – LED off
 - Running / 1st Quality – LED solid
 - Running / Downgrade – LED slow flashing
 - Running / Reject – LED fast flashing
- **Last Pack Grade** – a threadline specific quality indicator for the last doffed pack, with three grade colour indications available:
 - ● **GREEN** - 1st Quality
 - ● **ORANGE** - 2nd Quality
 - ● **RED** - Reject Quality

Fraytec FV System Hardware

Up to 8 Fraytec FV sensors connect with a Field PC (Section Module)

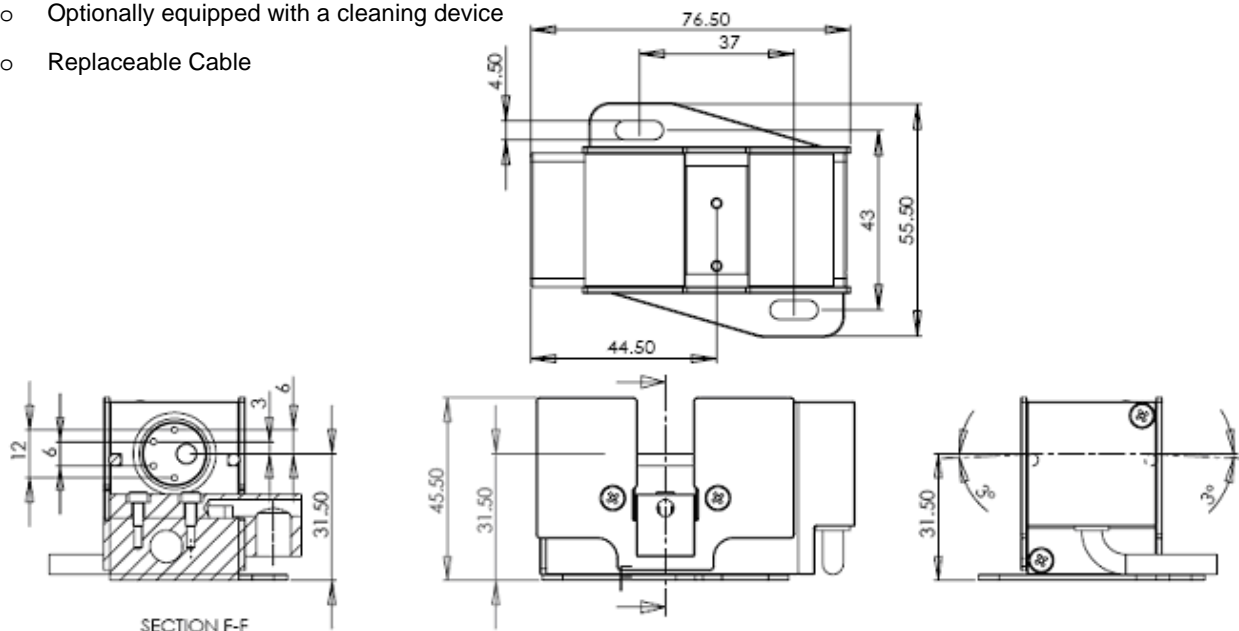
The Field PC communicates by means of Ethernet through a Switch Box / Hub with a Windows PC running Fibrevision software



Fraytec FV Sensor Installation

The Fraytec FV sensor is a fully encapsulated optical sensor with the following features:

- Starting/Stopping of measurements by means of a dynamic signal from the yarn.
- Self-checking for contamination and automatic adjustment.
- Optionally equipped with a cleaning device
- Replaceable Cable



Fraytec FV Sensor – General Mounting Dimensions