

Fraytec - On Line Monitoring Technical and Industrial Yarn

Broken Filament Detection for the Spin-draw and Draw-wind Processes
Adjustable sensitivity for different sizes of broken filament

Fraytec MV 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 selectable at 3mm, 4.5mm and 6mm from the yarn

Compact sensor fully sealed design can be fitted to almost all types of machine

LED display in three colours to indicate sensor status and yarn quality at every position

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.



PC based system provides a high degree of flexibility with up to 256 threadlines per system.

A clear easy to use menu based system provides:

- Configuration of quality parameters,
- Current Quality Status
- Current Sensor Status
- Report printing
- Label Printing .

Fraytec MV System

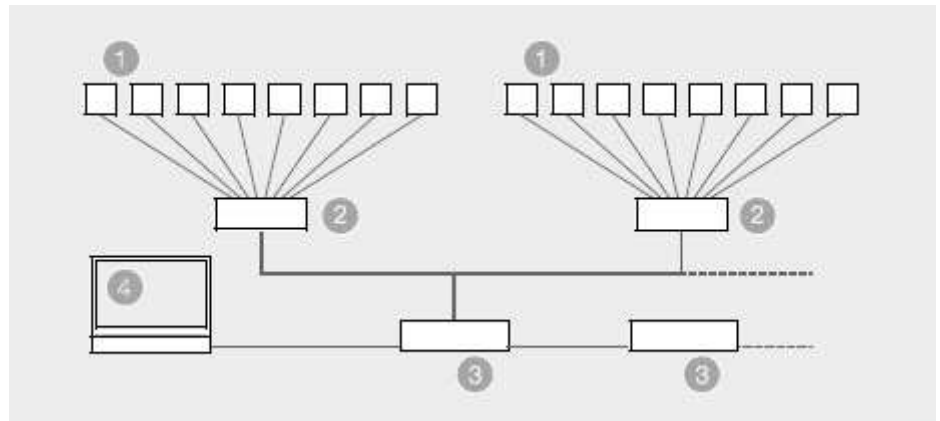
Maschinenname: Maschine 1		System Nr.1	Laufzeit:	Lastlänge (m)	Generell-Takt	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19	S20	Sensormodus	
		Wickler 1																									
1	00:20:15	4000	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	00:20:18	4000	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	18:18:15	4000	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	00:18:15	4000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Wickler 2																									
5	18:20:15	4000	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	18:20:15	4000	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	18:20:15	4000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	00:20:12	4000	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Wickler 3																									
9	00:24:13	77063	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	00:24:13	77063	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	00:24:13	77063	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	00:24:13	77063	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Wickler 4																									
13	18:20:20	47557	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	18:20:20	47557	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	18:20:20	47557	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	18:20:20	47557	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Fraytec MV System

Up to 8 Fraytec MV sensors connect with a field PC

The Field PC communicates by means of Ethernet through a switch/hub with a Windows PC running Fraytec MV software

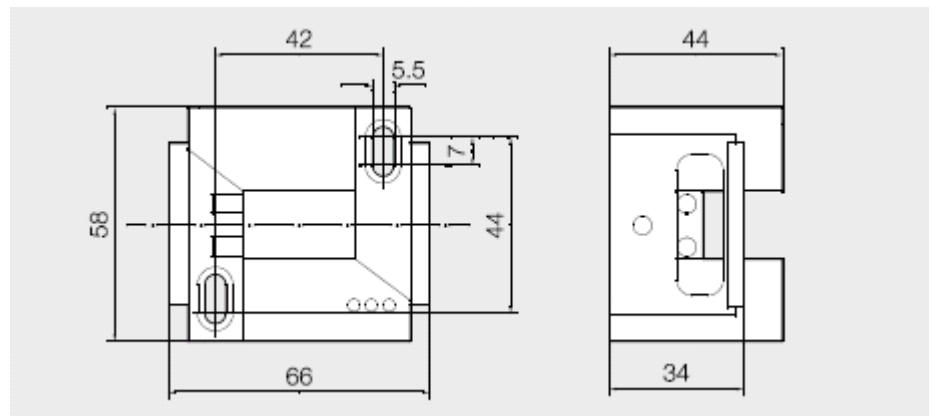


1 = Sensor 2 = Field PC 3 = Switch/Hub 4 = PC

Fraytec Sensor Installation

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

- Starting/Stopping of measurements by means of a dynamic signal from the yarn.
- LED with three status levels for display of sensor status and yarn quality.
- Self-checking for contamination and automatic adjustment.
- Optionally equipped with a cleaning device.



Fraytec MV Sensor – General Mounting Dimensions