Multi Thread Checker

Capturing of:

- thread breakage
- grain
- burl / loop
- flipping on ribbons
- optional thickness measurement with variance
- optional width measurement for ribbons

Your Technology Partner

We support our customers in a variety of automation tasks: from optical quality control, product tracking in flow production, measuring, inspection of products and stereo vision up to methods to increase productivity.

As individual ideal solutions for you, we completely produce all applications cost-effectively with TÜV Sud certified quality management according to ISO 9001:2015 in the vicinity of Munich: from the opto-electronic sensor to programmable logic and SoC-based hardware up to evaluation and user interface.

We teach machines to learn, spot and understand!

More than 2000 of our systems are used successfully in different industries worldwide and are often applied under the name of our customers in the production of:

- food & sweets
- automobiles
- paper and foil printing
- packaging
- pharmaceuticals
- woven textiles

Multi Thread Checker

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Multi Thread Checker
by opdi-tex

The sensor is designed for an easy installation in your system. Due to its robustness, it is suitable for use in rooms exposed to carbon or fiberglass dust as well as for threads with sizing. It works independently and without influence of thread colors and ambient light!

Warp beam production
During the production of a warp beam the threads are checked and counted continuously. During operation, the collection is stopped when a thread break occurs. Short-term touches between threads are allowed.

Safety light barrier
The number of threads has to be constant at several points in production. Missing threads must lead to an error. If the number of threads deviates for a defined time, an alarm and an output of the broken place as a picture will be triggered.

Carbon production
For laying carbon ribbons, their position and width are checked. Broken edges, flip of the track are also recognized and reported as splice or lint.

Materials:
Suitable for cotton, synthetic fiber, carbon and glass fiber, also ribbons made of these materials

Number of simultaneously monitorable threads > 1000
Thread diameter: minimum 0.1 mm
Thread distance: bigger than 0.2 mm
Thread color: arbitrary, also mixed possible

Your advantages
of optical warp tracking from opdi-tex are:

- high-resolution, extremely flat and more than 2 meters wide
- detect the absolute position of all warp threads
- independent of color and ambient light
- independent of material (conductivity, surfaces, ...)
- uses the thread movement / thread tension for breakage detection
- self-learning and robust against color change
- integrated incident light can be combined with IR transmitted light
- clearance for free workspace and easy setup

Quality Control & Quality Assurance

Output:
- adjustable result information, with an external module also a programmable digital signal
- direct control connection and logging
- browser access for an easy operation, language independent by using symbols

The result can go directly to a PLC or other controller. The extremely simple setup and high reliability allow it to be used as a measuring device for a closed-loop and also for 100%-logging to increase the value of the final product.

For more information give us a call or visit www.fadenkontrolle.de