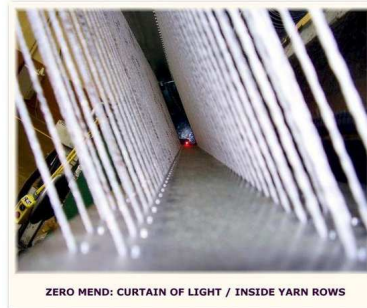


essex inc.

FIBER OPTIC YARN BREAK DETECTION



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FEATURES:

- Highest detection speed at 5 microseconds (5/1,000,000 of a second). Conventional sensors operate in the range of 5 to 10 milliseconds (5/1000 of a second). Able to detect minute objects at very high speeds.
- Our transmitter emits a very large diameter light beam, and our receiver only has to be located somewhere in that beam to be effective. Renders machine vibration a non-issue – no more false stops or sensor recalibration due to vibration.
- Strategic Sensor Positioning – our very small micro-sensors can be positioned in the most strategic locations, very close to the yarn web so as to be 100% effective in identifying broken yarn ends wherever they may occur.



- Our micro-sensors are small enough to be positioned so as to eliminate false stops created by yarn “flutter”.
- Application sensitive fine-tuning for precise control. Our Dual Digital Display allows accurate monitoring of the light incident level as a real-time number.

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Easy Settings

Make settings easily and precisely while checking them on the digital display. Use the Power Tuning function to make saturation and other sensitivity adjustments with the press of a button.



- Initial set-up and continued real-time monitoring of the sensing conditions via our Dual Digital Display Control Module.
- Precise configuration of the switching threshold via the Control Module. No guessing of the sensitivity settings.
- The Auto-Correct Function eliminates LED light degradation that occurs over time.
- Our powerful optical beam ensures stable sensing conditions in harsh environments. Sensor contamination caused by lint, oil, grease and ambient light are minimized.
- Zone Alarm Lights on the Control Panel allows the operator to quickly find the broken end.
- Overall system control is accomplished via a Programmable Linear Controller. Easily integrated into the Essex Smart Tufting Management System for data gathering.

BENEFITS:

- Simple set-up and continuous monitoring of the sensing settings allows operation at optimal conditions.
- Strategic Sensor Positioning insures that all broken ends are captured.
- Approaching 100% Zero Mend Defect conditions.
- Very little maintenance is required since sensor realignment due to machine vibration has been eliminated. Less maintenance means less machine downtime...the system is working on your behalf all the time.
- By capturing broken ends before they reach the needles and thereby minimizing re-threading of the yarn through the entire machine...overall machine efficiency is increased.
- Fewer mend defects = better quality carpet produced.
- Bottom line – more carpet produced in less time, better quality carpet, cheaper prices and faster delivery.