

Yarn Quality Monitoring Systems and Equipment

YTS01/02/03

meiners-del

Yarn Tow Scanners

Models 01, 02 and 03



YTS01 Control Unit



YTS02 Control Unit



YTS03 Control Unit
(shown with emitter and receiver)

The YTS range of equipment is designed to detect defects on a passing yarn tow. The emitter and receiver are positioned to project an infra red light beam across the yarn tow, defects passing through the beam result in attenuation of the carrier signal. The YTS01 / 02 / 03 use the same emitter and receiver modules that are sealed to IP66 (NEMA) but the control units differ. The YTS01 unit is a compact standard enclosure. The YTS02 wet process yarn tow scanners use suitable for operation in areas where water is present. The YTS03 model is the latest version made of the YTS and incorporates a Rate Meter. It has also been designed for use in Wet Process Areas. All the scanners are designed to interface directly with plant data collection systems.

Specifications YTS01 & YTS02

- Supply Voltage 96 - 260V ac
- Power 200VA
- Beam Type Infra Red Through Scan
- Beam Diameter 10 mm
- Maximum Scan Distance 2 M
- Outputs 5, 12, 24V Switching of a 1KHz square wave to give length details
- Connections Hard Wired or Multi-pole Connectors MIL Spec IP67
- YTS02 Enclosure IP66 (NEMA4)

Emitter/Receiver Specifications

- Scanner Beam Frequency 100 kHz
- Scanner Beam Wavelength 850 nm
- Scanner Beam Diameter 10 mm
- Maximum Scan Distance 1.75 M
- Emitter-Receiver Ingress Rating IP 66 (NEMA4)
- Dimensions 175(L) x 80(H) x 55(D) (Emitter and Receiver)

Specifications YTS03 Tow Scanner

- Supply selectable: 110V or 240V ac
- Power: 120 VA
- Preset Relay Rating: 5A resistive load 110V
- Max Count Rate: 1000 Hz
- Operating Temp Range 0 - 70 degree C
- EMC Emissions Meets EN 50081 - 2 Industrial Environment
- EMC Immunity Meets EN50082 - 2 Industrial Environment

In-Built Counter Features of the YTS03

- Displays count, rate, peak and valley counts
- A Pre-set function to operate the relay, this can be linked to the count or rate reading alarm set point.
- Both counter and rate may be scaled to accommodate low event counting
- Two separate resets for different counts
- All parameters are programmed via the counter control panel
- Operator panel may be disabled once parameters are set up thus protecting the operation settings