SCAN A LINE

Thickness Independent Measurement System

Model 10XRA Receivers

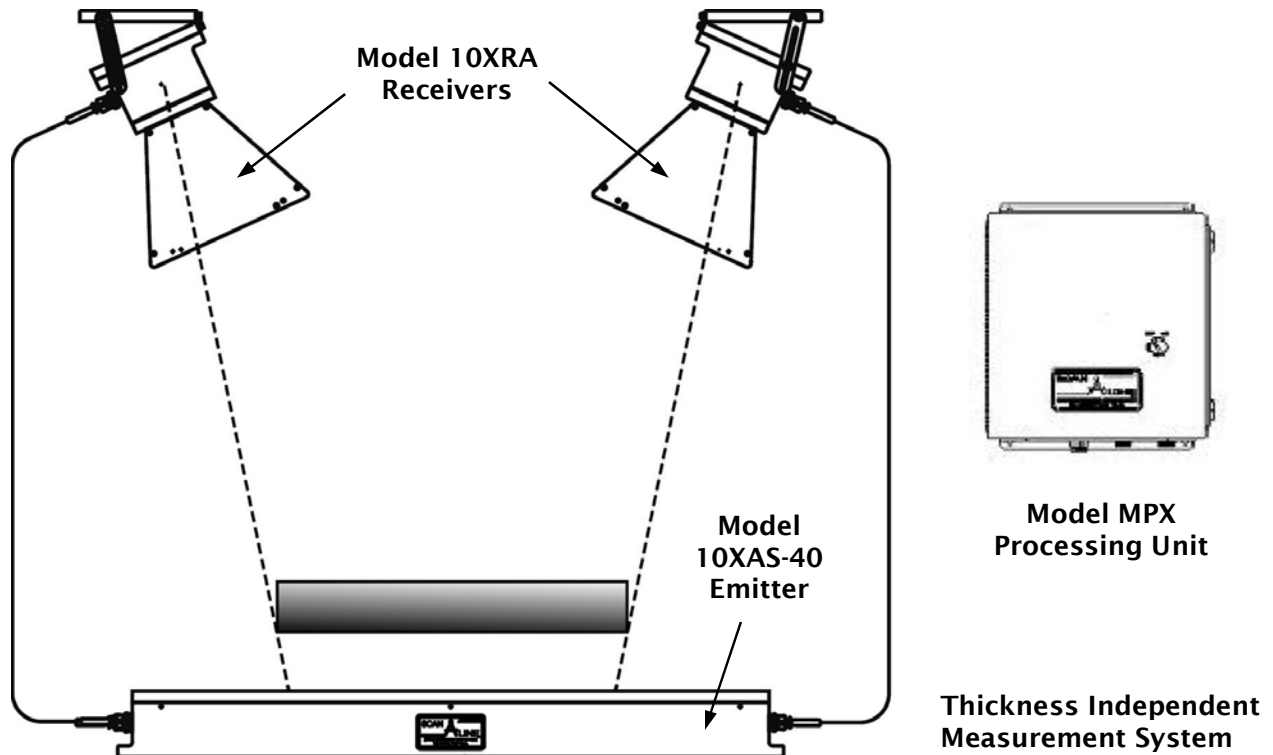**Model 10XAS-40 Emitter**

Model MPX Processing Unit

Thickness Independent Measurement System

Accurate measurement is one of the vexing problems found in strip product processing lines having a variable product thickness. The SCAN-A-LINE™ product development team has recognized the need for dimensional measurement that is completely independent of product thickness. This is especially significant near the payoff or rewind mandrels where passline varies as the coil diameter changes. Errors are unavoidable when attempting to measure materials with a varying thickness when using any single sensor system. Position errors occur because the edge is viewed by a single point receiver (or camera in a camera-based system). Errors can be calibrated out, but any thickness changes after system calibration will result in additional measurement errors in the material dimensions.

The Thickness Independent Measurement System (TSR System) solves these difficult variable thickness measurement problems with a unique and flexible measurement system utilizing new SCAN-A-LINE™ sensor and processing unit technology.

- **Linearity of 0.024 inch [0.81mm] @ 2-sigma**
- **Patented Scanned LED Technology**
- **NO MOVING PARTS**
- **Solid State Reliability**
- **No Light Sources to Replace**
- **High, Low and Target Limit Relays**
- **Multiple Analog Outputs Available**
- **Sensor FAULT Output**
- **Serial I/O for Data Output to Computer, Data Logger or Printer (optional)**
- **Several Customer Interfaces Available**
- **Centerline Position Output Available**
- **Custom Software Available**

* Specifications based on a stable passline. 0.032" with variable passline

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