Optech

measurement at the speed of light

PRODUCT APPLICATION NOTE
SN0201

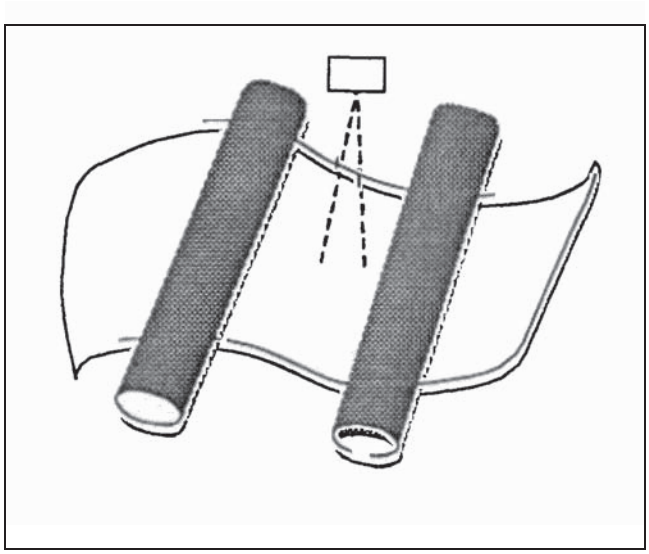
Industry:	Pulp, Paper and Wood Mills, Petroleum Refining and Related Products, Primary Metal Industries
Application:	Sag detection monitor
Optech Equipment:	SENTINEL 3100
Application Description:	The customer required a system to determine the sag of tar paper as it passes through the rolling system.

Optech tested its SENTINEL 3100, a NEMA 4 laser level monitor, at a very large roofing material manufacturer. The company manufactures tar paper as well as other products for the roofing industry. As part of the manufacturing process, the tar paper is fed through a series of rollers. It is very important that the sag through the rollers is monitored continuously. Since there are many interfering structures built within the machinery, a sensor with a narrow beam (low divergence angle) is required to avoid interfering with any part of the machinery and to measure to the tar paper only. The SENTINEL 3100 measured to the tar paper without interfering with any of the structures. An added benefit to the customer was the visible laser pointer, which showed exactly where the sensor was pointed on the tar paper.

The SENTINEL 3100 was successfully tested at other sites as a sag detection monitor for porous fibre-glass sheets, and sheets of pure nickel.

KEY ADVANTAGES OF LASER TECHNOLOGY IN SAG MEASUREMENT

- Measurements unaffected by temperature variations
- Measurements can be made within complex machinery
- Measurements can be made at very sharp angles to the surface
- Measurements unaffected by background noise
- Non-contact measurements
- Short setup time with no calibration required
- Narrow beam divergence allows the beam to shoot through narrow openings



300 Interchange Way • Vaughan, ON • Canada L4K 5Z8
Tel: [905] 660-0808 • Fax: [905] 660-0829
Web: www.optech.ca • Email: inquiries@optech.ca