

Web Thickness Measurement

GOAL

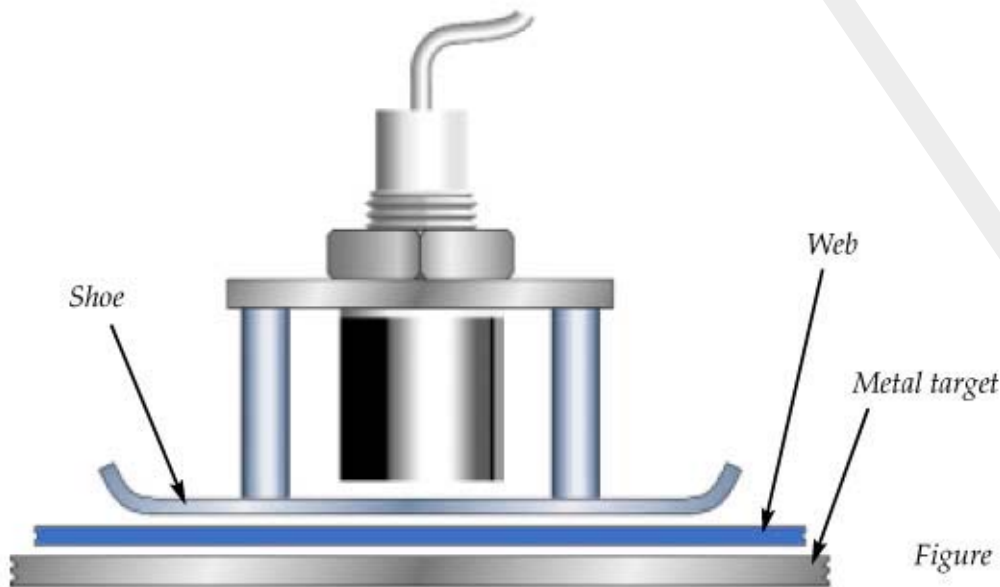
- Regulating the thickness of a nonconductive fiber web across its width and length (rubber, paper, dough, plastic, particle board, etc.)
- Maintaining a precise material thickness (± 0.001 inch).
- Making measurements in the presence of environmental contaminants.

SOLUTION

KD-2306
KDM-8206

Web thickness is controlled by the position of two calender rollers. Kaman's single-channel sensor is mounted on a shoe that slides across the web as it exits the rollers (see Figure 1). The sensor looks through the nonconductive web to measure the distance to a metal backing.

Kaman's systems provide a DC analog signal directly proportional to the web thickness. Result: Improved web quality and reduced process costs.



THE KAMAN ADVANTAGE

Good reasons to use the Kaman KD-2306/KDM-8206 measuring systems:

- **Non-contact.** Using eddy current technology, the sensor can measure position without ever touching the target. The result is an extremely reliable system with no moving parts.
- **On-line.** The sensor measures the web thickness as the material exits the rollers. A set point can be triggered to warn when out-of-tolerance conditions are reached.
- **Rugged.** Kaman's system components — the sensors and a NEMA-12 box used to house the signal conditioning electronics — are unaffected by environmental contaminants.
- **Versatile.** The KDM-8200/8206 non-contact measurement is equally effective for particle board and plastics.
- **Accurate.** The system passively compensates for the temperature shifts of the process environment.

*Every application is unique.
Contact Kaman for application engineering assistance.*

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