



# Optocator™ Laser Sensors

**The classic laser sensor for improved quality and process control**

The Optocator is an industrial laser triangulation sensor designed for non-contact measurements of thickness, height, width, length, position, level, surface profile, flatness, contour, displacement or vibration.

Careful selection of the laser light source combined with an unique, high speed light intensity control loop makes it possible to measure on most materials regardless of surface texture, temperature, color or in difficult ambient light conditions.

Since data is collected at 16 000 or up to 78 000 samples/second real-time measurements can be made on rapidly moving objects. Several models of the Optocator sensors have been developed to satisfy difficult application requirements.

Typical Optocator applications include level measurements of molten iron, profiles of extruded rubber and road pavement characteristics at highway speed.

The Optocator has proved its reliability in industrial applications for over 25 years. During this time, a

number of accessories have been developed to protect the Optocator from harsh environments. Water cooled enclosures and air purge systems for dust and heat protection are available.

Subsequent signal processing such as averaging and filter of data can be performed in either the Selcom Signal Processor (SSP) or an Optocator Interface Module (OIM). Analog and digital output formats of the processed signals from the SSP or OIM board make interfacing to an external PC, PLC, other data collection or processing devices easy.

This product information sheet describes the basic specifications of the Optocator models available for various applications.

The Optocator's high accuracy and sampling rate combined with Selcom's experience makes it the perfect choice for the most demanding on-line applications. Improved quality and process control provided by the Optocator ensures short pay-back time on the investment.