

Non-Liquid Applications

The following are some of the non-liquid applications for which ultrasonic sensors have been utilized:

- Maximum fill of tuna in a can at a food processing facility on the West Coast of the U.S.
- Car mats in the correct orientation position as they exit an extruder on the conveyor belt for a popular manufacturer in North Carolina.
- The correct height of currency at a private Canadian contract house that services foreign governments.

In these actual applications, the ultrasonic sensor is interfacing to a PLC containing an analog input card, which is monitoring the height indication within a programmed tolerance. This provides the product's process line with an economical and reliable way to apply a quality control feature.

In addition to this type of application, if two or more sensors are used in conjunction with one another, the PLC can provide a position control in multiple planes. However, locating two sensors close to each other can be a problem. Depending on the target geometries, an echo from one sensor might be deflected to the second sensor and provide a false detect. This is managed by keeping the sensors at least as far apart as their sensing range.

Madison Company 800-466-5383 www.madisonco.com

27 Business Park Drive, Branford, CT 06405 • 203-488-4477 • Fax: 203-481-5036 • E-mail: info@madisonco.com
Madison Europe – Phone: + 31 (0) 548 659 034 • Fax: + 31 (0) 548 659 010 • E-mail: madison@eurodev.com