The Banner Q4X Sensor Series provides versatile, rugged laser distance sensors offering superior performance and capable of detecting sub-millimeter changes in distance. The Steiner Automation & Controls team can help you review and select the right Q4X Series Sensor based on sensing range, analog or discrete input/output, IO-link, resolution/repeatability, and housing style compatible with your required detection application.

**Q4X Sensor Series Features**

- Discrete, analog (0 to 10 V or 4 to 20 mA), clear object, and IO-Link models available
- Reliable sensing range from as close as 25 mm and as far as 610 mm
- Detects across a variety of target colors, materials and surfaces based on distance
- Clear distance readout from angled four-digit display
- Robust housing rated to IP69K with FDA-grade stainless steel
- Easy setup with responsive buttons
- Rugged design resists mechanical impact, over tightening and extreme vibration
- Dual teach mode (intensity + distance) is ideal for error-proofing applications and enables clear object detection with no retro-reflector required
Sample Applications

- **Carton Stack Height**
  Frequent product changeovers, reduce setup time.

- **Bottle Fill Level Detection**
  Measure fill level, provide feedback on height of pills.

- **Integrated Circuit Orientation**
  An iVu Plus sensor checks the orientation of each integrated circuit.

- **Cap Orientation Verification**
  Sanitary environment, subjected to aggressive chemical washdowns.

- **Rubber Washer Detection on Engine Block**
  Detect presence and orientation of each integrated circuit.

- **Detecting Black Parts on Black Door Panel**
  Differentiate between foam and poor contrast background.

- **Close Proximity Error Proofing on Assembly Line**
  Multiple sensors, confirm part presence and position.

- **Error Proofing for Integrated Circuit Chips Loaded into Pocket Tape**
  Detect presence and orientation of each integrated circuit.

- **Hard Disk Detection**
  Detect whether shiny disks are properly seated.

- **Black Plastic Tray Detection at a Hopper and Filling Station**
  Dark material moving at high-speeds inside a hygienic environment.

- **Detecting Clear Glass and Plastic PET Bottles in Washdown Environment**
  Washdown environment, IP69K ratings required.

- **Detecting Clear Bottles to Trigger Shrink Sleeve Labeler**
  High-speed labeler processing 800 bottles per minute.

- **Detecting Transparent Bottles in a Washdown Environment**
  Detect accumulations to regulate line pressure.

- **Clear Plastic Food Container Detection in a Sanitary Environment**
  Sanitary environment, IP69K rating required.

- **Counting Multicolored Reflective Packages on a Conveyor**
  Counting reflective and wrinkled packaging on a conveyor.

For more info about Q4X Series Sensors call 1-800-STEINER (783-4637) to speak with a Steiner Automation & Controls application engineer or email automation@stnr.com.

www.steinerelectric.com