TRI-TRONICS®

Smart Photoelectric Solutions Since 1954

NEW

SMARTEYE® COLORWISE™ TRUE COLOR SENSOR

In February, we will be introducing the **SMARTEYE® ColorWise,** our first sensor designed to respond when it sees a specific color. Used for color recognition, we have been told that "it performs more like an instrument than a sensor". It will detect the difference between two shades of white in applications where the human eye cannot detect a variance.

Available in two focal ranges: 2mm to 25mm, and long range out to 200mm. Detection is independent of target distance with adjustable tolerance levels. The ColorWise has four digital and three analog outputs.

In the meantime, please alert your sales force to start looking for the following opportunities.

<u>Color Recognition Applications Include:</u>

- Automotive Assembly: Interior trim process, seat belts, seat colors (leather & vinyl), carpet matching, bumper and spoiler color matching, color coding of engine parts such as pistons, crankshafts or engine mounts, etc.
- Pharmaceutical: insert verification, verifying pills in blister packs, color tubing, missing parts in operation kits, checking pharmaceutical codes.
- Registration Mark Detection: See specific marks, ignore color graphics in the same path.
- Insert Verifications: Food Coupons, instruction manuals, MSDS Information.
- Commercial Baking: Monitor the color of baked items such as bread, cookies, roasted coffee beans, potato chips, tortillas etc.
- Graphic Arts: Recognition of color marks or inks in the printing and graphic arts industry
- Bottling Lines: Sorting bottles by color and guiding them to the appropriate filling station. This allows different color bottles to go down the ***same shared*** conveyor line (this may be a new concept to introduce to your customers).
  Verifying that the correct color cap or brand of cap is on a bottle.
  Verifying that the correct color label is on a bottle.
- Verifying that the correct label has been applied or is missing.
- Product Inspection or Verification.
- Inkjet or bar code verifying or triggering.
- Clear label graphic trigger.
- Sorting Bottles by color to guide to the appropriate filling station.

- Ensuring that the correct color object is being processed.
- Detecting presence of coatings on glass in the retroreflective mode.
- Detect different color paint marks for sorting.
- Inspection color quality control: vinyl, aluminum siding, carpet.
- Verifying container cap color
- Pattern Recognition
- Color Die Verification for Quality Control
- Monitor the correct color texture of material such as plastic extrusion
- Wood Processing Quality Control: floor staining, lumber mill sorting, laminate, cabinet manufacturing, wood color tagging
- Verify Painted Material
- Film Color Verification, Retroreflective Mode
- Splice detection
- Paper recycling color recognition
- Verify contents inside totes

Customers may have not asked for solutions to these applications, we did not have an inexpensive way to detect colors. Our new color sensor would be a bargain, costing about one-third the price of a vision system.