





7 REASONS TO SWITCH TO VISION SENSORS


Vision sensors solve simple inspection applications, are easy to use, and provide a simple pass/fail or go/no-go result. At speeds up to 6,000 parts per minute, Cognex In-Sight® 2000 vision sensors detect a part for inspection by finding an actual part feature. Photoelectric sensors cannot do this. Once a vision sensor detects a part, it uses vision tools to perform defect detection and inspection applications. These vision tools can detect and inspect even the most challenging part features such as clear objects and printed text.

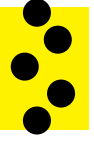
- **1 Identifies features photoelectric sensors cannot**


Vision sensors locate and inspect highly patterned features that other sensors cannot.
- **2 Eliminates external triggers**

Vision sensors overcome imprecise part positioning using patented multi-image analysis to determine whether a part is present.
- **3 Inspects multiple part features**

A single vision sensor can perform multiple inspection types in a target image.
- **4 Works on a smart display or PC**

Operators can set up new parameters or adjust existing inspections on a PC for easy interaction on the factory floor.
- **5 Optimizes illumination, brightness, and image contrast**

Modular vision sensors can be outfitted with flexible lighting and filter options to create better images and achieve more consistent and reliable results.
- **6 Handles misalignment and variability**

Vision sensors can detect objects regardless of their speed or position on the line--no mechanical fixturing required.
- **7 Easy to use**

Simple development environments are designed for both new and existing users.

CUSTOMER SUCCESS



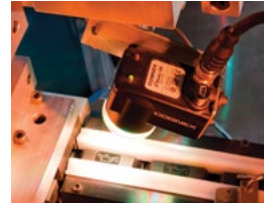
Company:
Maclean Vehicle Systems

Industry:
Automotive

Challenge: Maclean Vehicle Systems (MVS) needed to perform accurate pass/fail inspections on automotive fastener products and eliminate the need for an expensive over-sorting process.

Solution: MVS deployed two Cognex vision sensors to look into the assembly machine and evaluate the threads of stainless steel capped wheel nuts so they can be sorted properly for shipment.

Benefits: By eliminating the cost of additional part sorting, the investment quickly paid for itself. The new system also gives MVS confidence that no bad parts are shipped to customers.



Company:
Miniature Precision Components, Inc.

Industry:
Automotive

Challenge: Miniature Precision Components, Inc. (MPC) needed to minimize downtime and operator intervention caused by unreliable hard tooling on two vibratory bowl feeders used in their cap assembly system.

Solution: Three Cognex vision sensors ensure proper o-ring and cap orientation prior to assembly.

Benefits: MPC saved \$20,000 because operators do not have to shut down machines to remove improperly loaded parts. As MPC approaches full production volumes, their savings could increase to as much as \$120,000 per year.



Company:
Meridian Beverage

Industry:
Beverage

Challenge: Meridian needed to design and deploy a reliable "Fill & Cap" verification system for a new bottling line that runs non-stop at over 375 bottles a minute.

Solution: Meridian installed a Cognex vision sensor to inspect for improperly applied caps and tamper-evident cap-safety rings, and fill level tolerance.

Benefits: Cognex vision sensor deployment cut design and engineering time in half and saved about 20 percent in equipment costs for Meridian.



Company:
OTE Group

Industry:
Pharmaceutical

Challenge: OTE Group needed to ensure that each product it manufactures meets strict medical and pharmaceutical industry requirements and that all bottles reach their destinations in perfect condition.

Solution: OTE installed three Cognex vision sensors to ensure that the production code and label are present on each bottle.

Benefits: Cognex vision sensors ensure 100% reliable inspection of each bottle to facilitate faster production and better traceability.

COGNEX

Companies around the world rely on Cognex vision and barcode reading solutions to optimize quality, drive down costs and control traceability.

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