



P4 GEO Vision Sensor

- Compact self-contained vision sensor without external controller for high-performance inspections
- Easy location of inspection details regardless of product rotation; quick set-up
- Simple, remote TEACH capability for quick reconfiguration (product change)
- High-speed sensing: exceeds 1 500 parts per minute, depending on inspection
- Separate video output allows direct connection to optional real-time video display
- Two housing options (in-line or right-angle) and multiple mounting brackets for easy installation available



 **PresencePLUS[®]** P4

360° rotation for high-performance inspections





▲ Label verification on a packaging line

A barcode reader identifies the base container product. The P4 GEO recalls the proper lid inspection file and performs a 360° geometric count inspection to verify containers with correct lids and reject containers with incorrect lids.



▲ Part presence/absence and orientation

Washer reservoir caps are assembled onto the washer reservoir. Using the remote TEACH function, the P4 GEO's geometric count tool learns the correct pattern of the graphic within the correct range of orientation on the cap.



▲ Date/Lot code verification

Film cartons pass by at high speed to inspect for missing, incorrect or smudged characters. The P4 GEO inspects the date and lot codes at speeds exceeding 1000 cartons per minute and cartons that fail are diverted.



▲ Complete assembly verification

Pastries are packaged in groups of three with individual frosting packets. The P4 GEO inspects the top area of all three pastries. If a frosting packet is present in any orientation it will pass. If there is no frosting packet, inspection fails.

Banner Engineering offers the industry a highly complete and integrated line of photoelectric sensors, ultrasonic sensors, machine safety products, measurement & inspection products and vision sensors.

Banner Engineering is a US based company with subsidiaries around the world for global sales and support.

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