



P4 EDGE Vision Sensor

- Self-contained vision sensor – no external controller required
- Easily and accurately reprogrammable for new product inspection at the push of a button
- Convenient, 12-pin digital I/O terminal block for ensuring smooth integration into the customer's machine control system
- High-speed measuring and position monitoring at speeds of up to 10000 parts per minute
- Separate video output allows direct connection to optional real-time video display without the need for a PC
- Two housing options and multiple mounting brackets for easy installation



 **PresencePLUS[®] P4**

***Vision sensor for high speed
inspection and error-proofing***



▲ Vial Stopper Alignment and Fill-Level Detection

The P4 EDGE verifies that the stopper is correctly positioned on a non-closed glass vial to ensure proper sealing, and that the product fill level is correct. If the stopper is incorrectly positioned or if the vial is under filled, a FAIL output is sent from the vision sensor to the filling machine.



▲ Bottle Label Alignment

The P4 EDGE measures the horizontal displacement between the labels and verifies that each individual label is applied straight and not skewed.



▲ Syringe Assembly Verification

The P4 EDGE checks for the presence of a needle and verifies that it is straight. It also measures the epoxy glue for over- or under-fill.

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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