



Automation, Inc.

WHAT CAN MACHINE VISION DO?

Machine vision systems, like Cognex sensors, can protect your molds and inspect your product with easy to use and adaptable machine vision software.

Machine vision can:

- Offer robot guidance for picking parts off of a conveyor
- Verification on assembly of fasteners, snap rings, gaskets
- Verify labels are in place for in-mold labeling
- Detect or count inserts before mold closure
- Perform feature measurement & locate detection



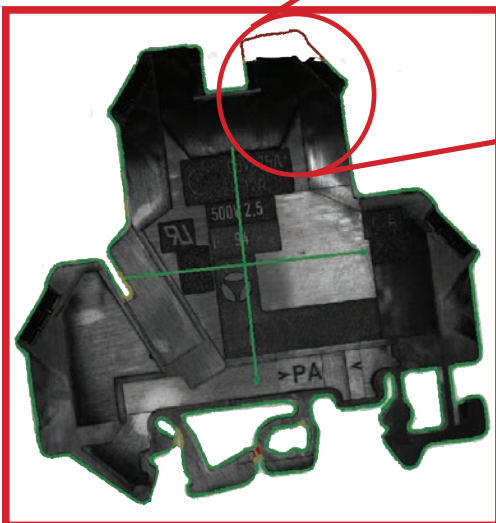
In-Sight 2000

QUALITY ASSURANCE

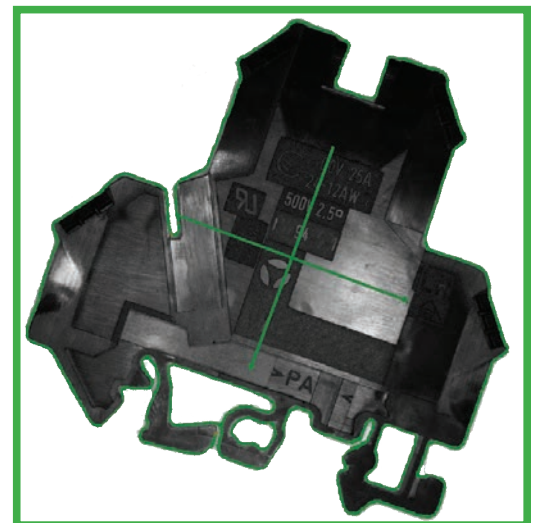
Shipping parts with short shots or flash?

Cognex sensors can detect short shot or flashed product by analyzing shape or pattern, measurement, or absence detection at the end of the fill. The example below shows a terminal block with short shot on the top right corner.

Detects a flawed part with short shot



Approves part based on programmed criteria



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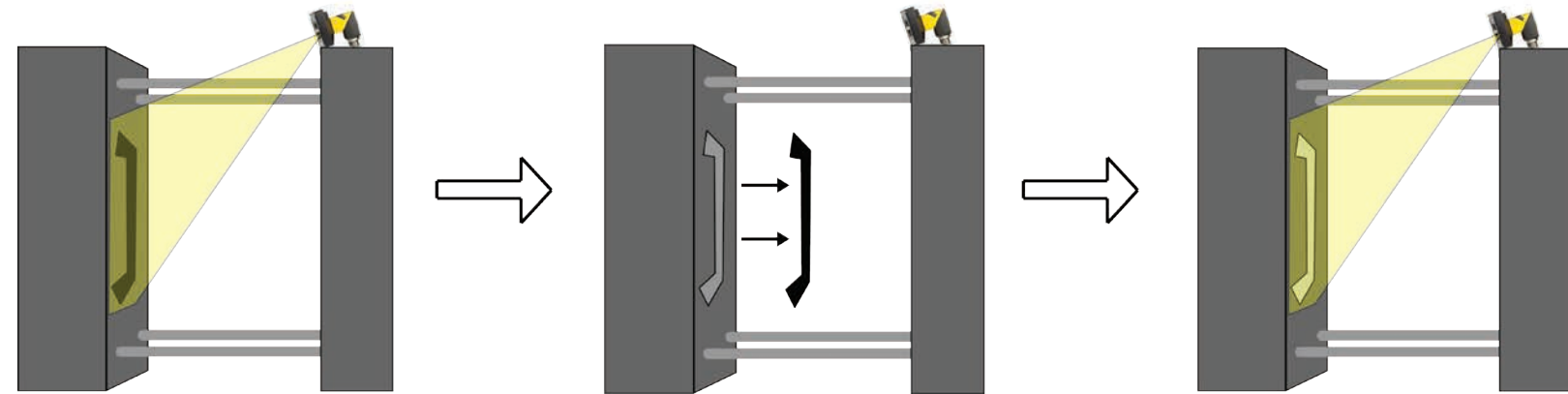


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MOLD PROTECTION

Crashing molds due to part ejection or ejection pin retraction?

Cognex sensors can detect both conditions before your machine closes the mold. They can verify that the part is in position before ejection and verify that the part was ejected before initiating mold close. If the sensors detect that the mold is not cleared they can stop the mold from closing.



After the mold opens, the camera takes an image and verifies that a part is present in the mold.

If a part is present, the part is ejected. If a part is **not** present, the press can be stopped.

Before the mold closes, the camera verifies ejection pin retraction and insert presence. If this is **not** verified, the press can be stopped.

Our specialists can help with your design and implementation.



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