

Token Detection in Paint Cans

Customer

Paint filling machine manufacturing company.

Customer requirements

No container will pass without Token in it.

Epsilon solution

V20 vision sensor with 12mm lens & white light

Why Epsilon

The main challenges are:-

- Token can fall anywhere in container
- Token can fall on any of its two flat surfaces
- It may sometimes rest vertical
- Token doesn't have fix design
- They are plastic coated so throw excess glare.

Epsilon solves all the above with accuracy & 100% result.



Distance from camera to conveyor = 575mm

Customer Benefits

- Quick & simple job change
- Don't have to change camera position for 1L & 4L
- Easy software configuration

Visor V20 feature

- Multiple tools can be used in same job
- Connection of PLC via M 12x1, 12 pin plug
- Display of VISOR switching outputs via LEDs
- Simple configuration with the help of PC and VISOR software

Learn More

Visit www.epsilonfiberoptics.com for more application information

Background

In paint container there is one token is dropped before it get filled by paint. Sometimes this token is missing in container hence customer want simple but accurate system to detect presence/absence of token in container.

Challenges

Tokens are manually thrown in container so the position of token is not fixed. Also any side of token has come in front of camera. The main challenge is to detect the token which stands vertical with resting towards the wall of container.

Solution

Epsilon gives solution to reject cans without token in it with the help of V20 camera sensor. For this we use pattern matching tool in software of camera sensor by taking reference of blank can. If anything that come in blank cans and break the pattern of this blank cans like token then camera will give pass signal & if pattern is matching to blank can then it will give fail output.



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