

SUCCESS STORY

Roller detection in bearing parts



AN ISO 9001:2015 Certified Company

Customer

SPM Machine manufacturer - OEM

Customer Requirements

Detect roller in hole size of 2X1.6 mm of Automotive parts
thirst needle bearing cage at distance of 200 mm

Orchid Solution :

High precision laser displacement sensor

Customer Benefits

- Increase quality control
- Precise part detection
- Reduce down-time
- Keylock function available

Product features

- Rugged laser displacement sensor
- Easy to Use, problem solver
- Bright LED output indicator
- 18 mm dia Cylindrical housing and also side mounting
- Class 1 laser with highly visible laser
- Minimum object detection size 0.5 mm
- Wash down area – Protection class IP69K
- Repeatability : ± 0.5 mm of range

Products Look



Learn More

Visit www.orchidtechnology.in for more application

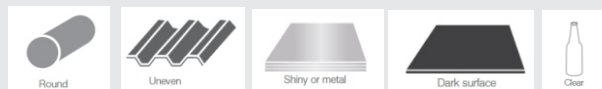
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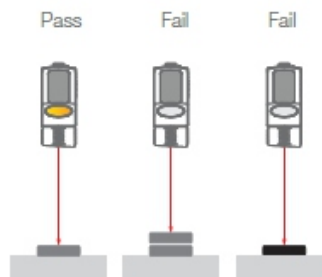
Dual mode : Distance with intensity to detect any change



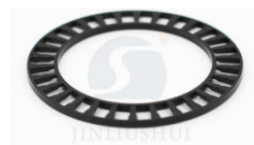
Challenging Targets



Dynamically adjusted laser power increases output for dark targets or objects at steep or uneven angles, while reducing power of shiny targets, providing accurate measurements across a wide range of challenging targets

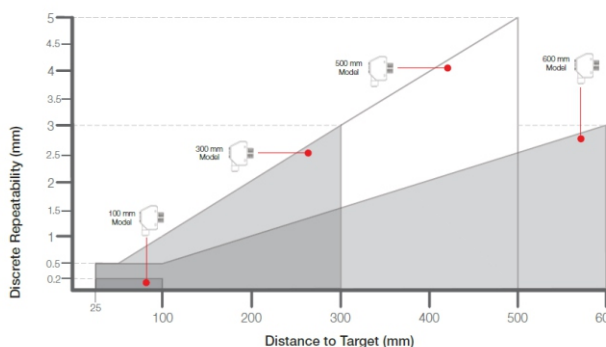


Distance:
Color:



Inspections use distance to verify parts presence and position, and intensity to verify color or part orientation

Distance: Precision Measurement and Detection Regardless of Target



Application

Roller detection in bearing parts(thirst needle bearing cage)

Challenge

Because of shiny black color, photoelectric sensor can not suitable for these application. Hole size is very small 2 X1.5 mm at a distance of 200 mm and object is continuously rotating.

Solution

We used laser displacement sensor with function of dual mode.

It works with distance of intensity to detect any change.

Laser sensor face is mounted in front of plastic bearing parts and capable to detect sub millimeter in distance, easily detect slight variations in heights