

SUCCESS STORY

Check dents on automotive parts



AN ISO 9001:2015 Certified Company

Customer

Automotive Industry

Customer requirements

Check dents on automotive parts

Orchid Solution :

True color contrast sensor

Customer Benefits

- Increase quality control
- Save Inventory cost
- Smart functions : on-off delay / impulse/ counter
- Keylock function available

Product features

- High performance color sensor with visible white LED
- Detection up to 12 colors in one sensor
- Small spot size of 4X4
- 5 discrete outputs available
- 12 binary outputs available for special applications
- Enables fast changeover
- Response time 180 μ s
- Minimum cycle time or scan rate : 4 ms
- Intensity data visualization
- Intuitive configuration with integrated digital display and on-board buttons
- IO-Link communication for remote configuration
- Used also in washdown area because of IP69K

Products Look

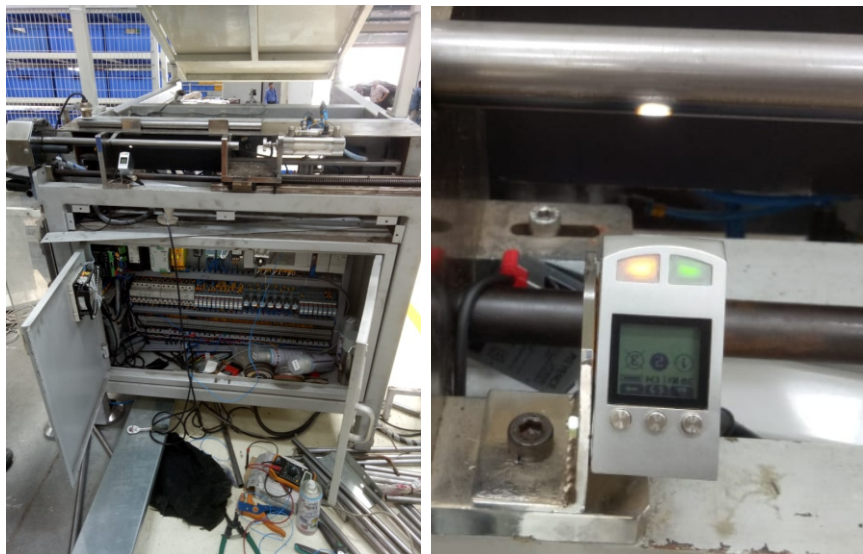


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Application

Checking dent on automotive parts.

Challenge

To detect dents in pipe which is used in Automotive industry whereas inspection camera is more expensive, due to dents product may be rejected and it has many disadvantage like production loss , increase maintenance time , labor cost, damage product quality etc..

Solution

We used true color sensor having 5 digital outputs in sensor in which 2 outputs used (one is for OK and other is for NOT OK). It goes to PLC. PLC will give command to pick & place robot is can pick parts to next process and if part is not correct then pick & place robot will stop & gives false alarm on HMI display with buzzer indication.

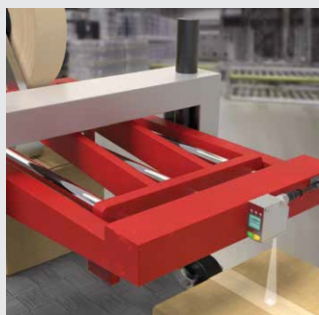
Some of pictorial view applications



Blister inspection

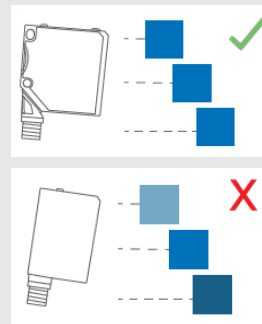


Part verification



Gum tape detection

Consistent color inspection regards of distance



Advanced technology to provide a consistent color value

Competitive sensors will return a different color value for the same object at slightly closer or greater distance

Subject to modifications without prior notice

ORCHID TECHNOLOGY

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