JCCESS STORY needle presence absence

AN ISO 9001:2015 Certified Company

Customer Tyres Industry

Customer requirements Detect needle presence absence in tires combination machines.

Orchid Solution : Polarized retro reflector sensor

Customer Benefits

- Reduce maintenance time
- Improve quality control
- Quickly response time

Product features

- Compact design
- Robust housing with 18 mm threaded barrel or basemount, side-mount
- Range up to 3.5 meter
- Discrete outputs (PNP NO-NC)
- Inbuilt BGS facility
- Polarized ratio
- Sensing beam : visible red LED
- IP Rating : IP67
- Potentiometer adjustments
 Repeatability : 150 micro second

Products Look

Subject to modifications without prior notice

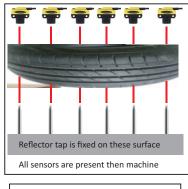


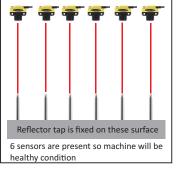
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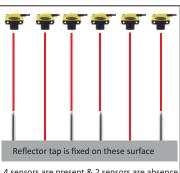


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Pictorial view of these application







4 sensors are present & 2 sensors are absence so machine will be stopped & gives false alarm

Application

Detect needle presence or absence in tire combition machines

Challenge

In past customer manually checking the tire quality and due to these, increase maintenance time. They cannot check needle damages properly.

Solution

We used polarized reflector sensor with such mechanical arrangement while needle comes in front of sensor and check that needle is presence or not. If needle is not present then machine will be stopped with giving false alarm through modular tower light.



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