

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



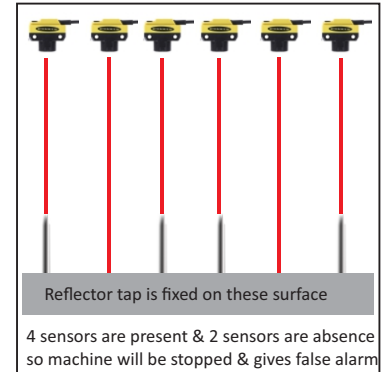
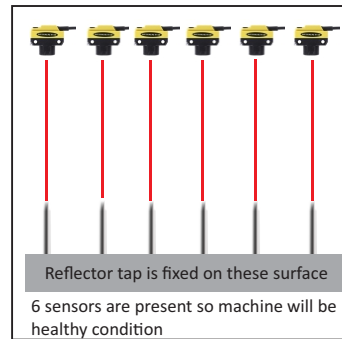
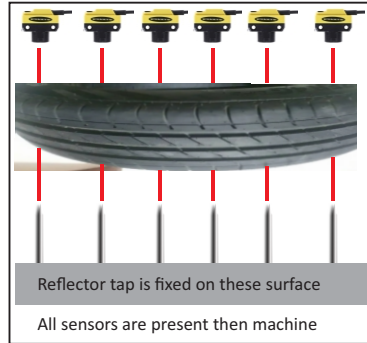
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Pictorial view of these application



Application

Detect needle presence or absence in tire combination 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.