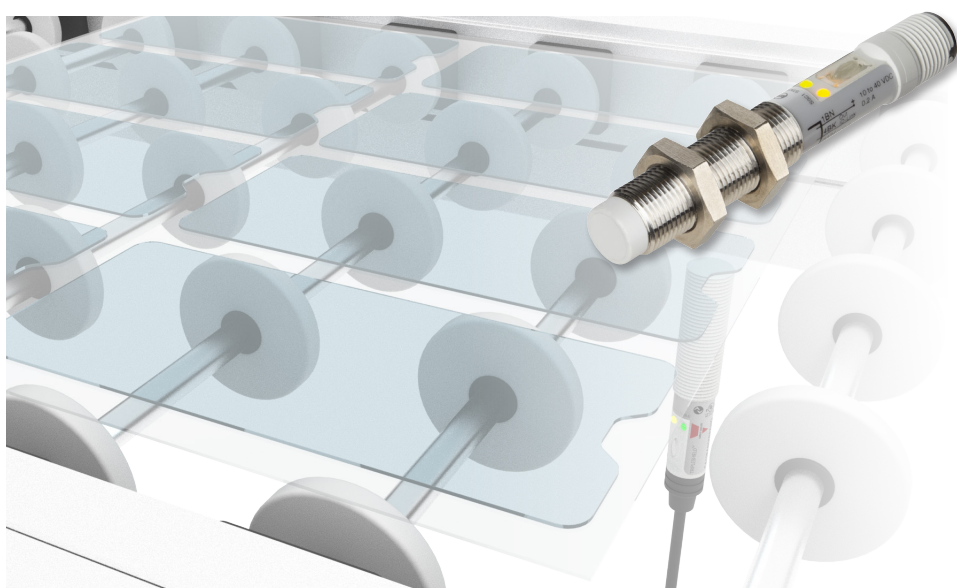


Application note



Subject:
Glass detection

Industry:
Conveyors- Assembling lines

Product:
CA12...IO

Customer:
OEMs

CUSTOMER ISSUE

Detection of metal coated glass on a conveying belt.

In the past a photoelectric sensor was used for this task, however the application was not stable.

OUR SOLUTION

Since glass is metalized, it contains a tiny layer of metal. This layer is too thin to use an inductive sensor, however for a capacitive sensor the metalized layer is very easy to detect.

Using an M12 sensor where the sensing edge is smaller makes the position more accurate.

By running the sensor in an IO-Link environment, the sensor will provide a value between 0 and 10.000 units depending on the position of the glass.

Via IO-Link, the sensor can be configured for a variety of functions.

BENEFITS

- Using a capacitive sensor will ensure much more stable detection over time than using a photoelectric sensor.
- In IO-Link mode, valuable downtime can be avoided thanks to predictive maintenance functions such as Quality of Run, Quality of Teach and Temperature information.
- In addition, IO-Link allows for easy customization of sensitivity, timers, and logic functions.