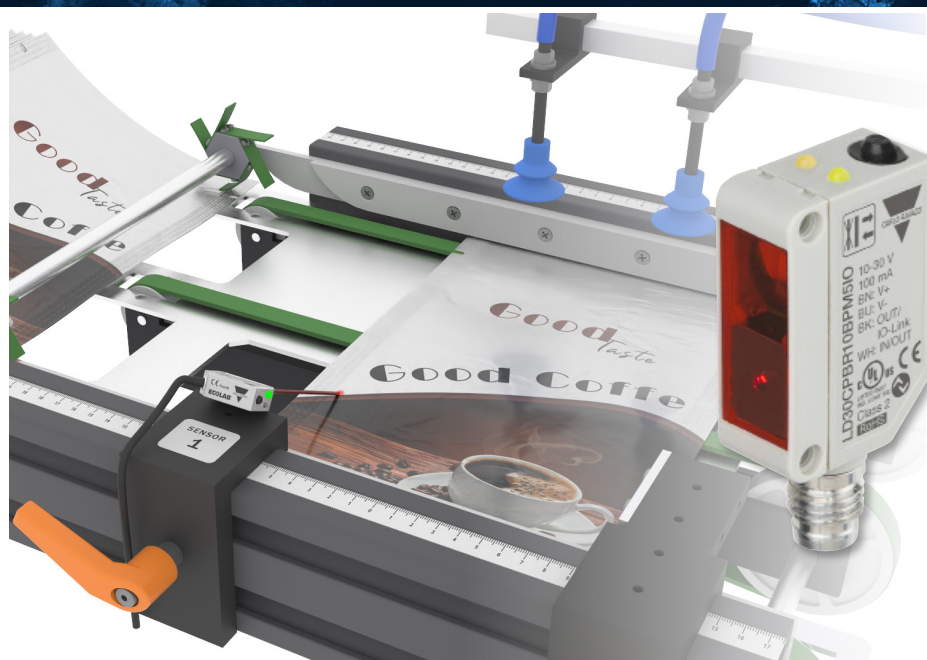


Application note



Subject:
Pouch feeder for horizontal packaging lines

Industry:
Conveyors in packaging lines

Product:
LD30xPBR..IO

Customer:
OEMs, System integrators

CUSTOMER ISSUE

Pouches must be fed onto the horizontal packaging line.

The pouches can be highly shiny or dead black, making their detection very difficult with a standard photoelectric sensor.

The mechanical guides need to be adjusted for each pouch to make sure that the pouch is stopped at the right position. Once the pouch is correctly positioned it is moved with vacuum cups to the horizontal packaging line.

OUR SOLUTION

The LD30CPBR...IO or the LD30EPBR...IO can be set to background suppression or, in this case, to the foreground suppression mode via an IO-Link master or our SCTL55 Smart Configurator.

The small 1 mm round laser spot is easy to align so the setting of the guides can be adjusted correctly.

The sensors have been taught in foreground suppression mode to detect a background below the conveyor, allowing reliable detection of pouches, if all the laser light is reflected away from the sensor or absorbed by a dead black pouch.

By means of IO-Link, the sensor can be configured to a variety of functions.

BENEFITS

- The foreground suppression mode, with the small visible red laser spot, allows reliable detection of highly reflective or dead black objects avoiding unnecessary production stops
- In IO-Link mode, valuable downtime can be avoided thanks to the predictive maintenance functions such as Quality of Run, Quality of Teach, Temperature and dust alarms, Excess Gain, and Auto Adjustment
- In addition, the IO-Link allows easy customization of distances, timers, logic functions as well as different output configurations