

NEW

Color Mark Photoelectric Sensor
E3S-DC

 **IO-Link**



OMRON's New Color Mark Sensors

Offer Stable Detection of Both Glossy and Colorful Packaging.

It therefore does not reduce the operation rates of production facilities.

The Sensors can accurately detect color marks on glossy and colorful packaging, which have been troublesome for conventional systems.

They also help reduce the number of troubleshooting requests made to packaging machine manufacturers—without any decrease in the operation rate due to equipment stoppages caused by false detection.

NEW

Color Fiber Amplifier Unit
E3NX-CA

EtherCAT 



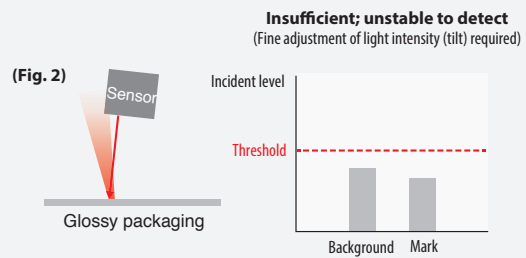
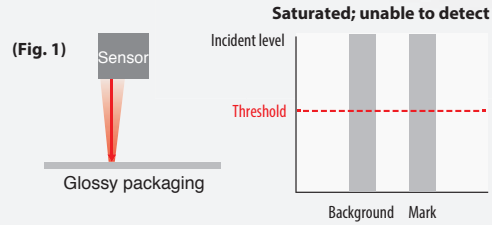
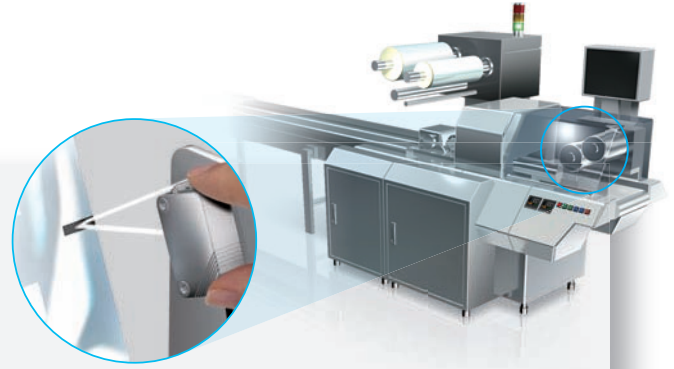


“I want stable detection of aluminum vapor deposition material and other glossy packaging.”

Existing challenges

The intensity of the light received by the sensor from highly-reflective glossy packaging is too strong, so there is not enough difference in incident levels to perform color mark detection (i.e. saturation, Fig. 1).

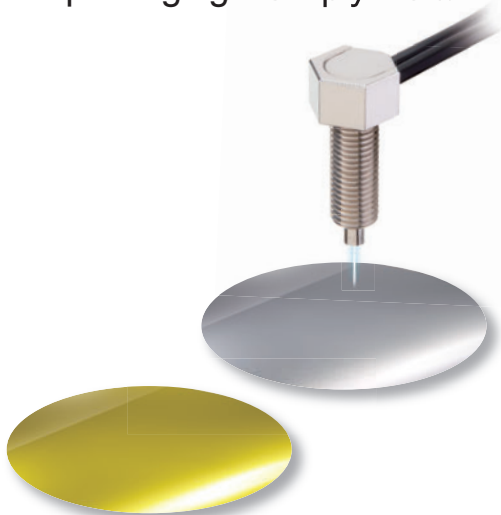
The angle needs to be finely adjusted to avoid saturation and allow the sensor to detect the mark. However, if the sensor is tilted too much, detection will become unstable as the incident level decreases (Fig. 2).



E3S-DC/E3NX-CA

Light Is Received over a Wide Range: Enough Even for Glossy Packaging

This allows for the stable detection of glossy aluminum vapor deposition packaging—simply install the Sensor directly above



Follow along to see how the technology works.

