



**Sensors**

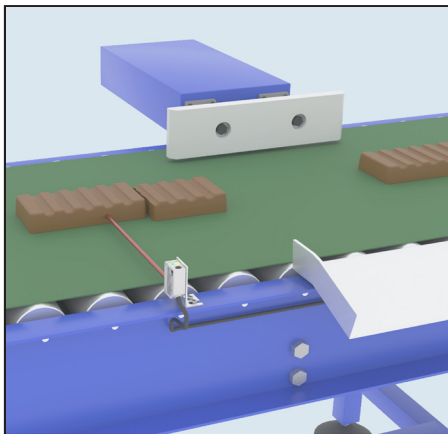


**Switches**



**Controls**

## Application notes



**Application Note : June 2021**

**Market involved : Materials handling, Packaging machinery**

**Product : PD30CT...IO**

**Customer : OEMs**

**Subject : Object and gap monitoring**

### CUSTOMER ISSUE :

When packing chocolate bars in individual bags it is necessary to be sure that only a full bar is packed.

To ensure that, it is needed to monitor either the length of the chocolate bars as well as the distance between two chocolate bars.

These "Gaps" have to be within certain tolerances.

If the tolerances are exceeding, the bar must be pushed a side.

### OUR SOLUTION :

The PD30CT...IO or the PD30ET...IO are available in Diffuse reflective, Background suppression or Retro-reflective versions that can be suitable for this application.

By means of the IO-Link the sensors can be configured to run the operation as a stand-alone solution.

An implemented "Object and Gap" function allows the possibility to enter a max/min time for both the object and the gap.

If the monitored time for the object or the gap time exceeds the pre-set value, the sensor responds based on its two outputs, one for object and one for the gap time.

### BENEFITS :

- A PLC is no longer necessary to run this operation. The sensor itself will monitor the object and the gap time comparing it with the preset time. The outputs will respond if either the object or the gap time exceeds the limits entered in the sensor.
- The IO-Link allows easy customization of distance, timer, logic functions as well as different output configurations.