

OsiSense application



Photo-electric sensors for the food and beverage processing industry

Daily cleaning cycles within the food and beverage processing industry subject sensors to severe conditions.

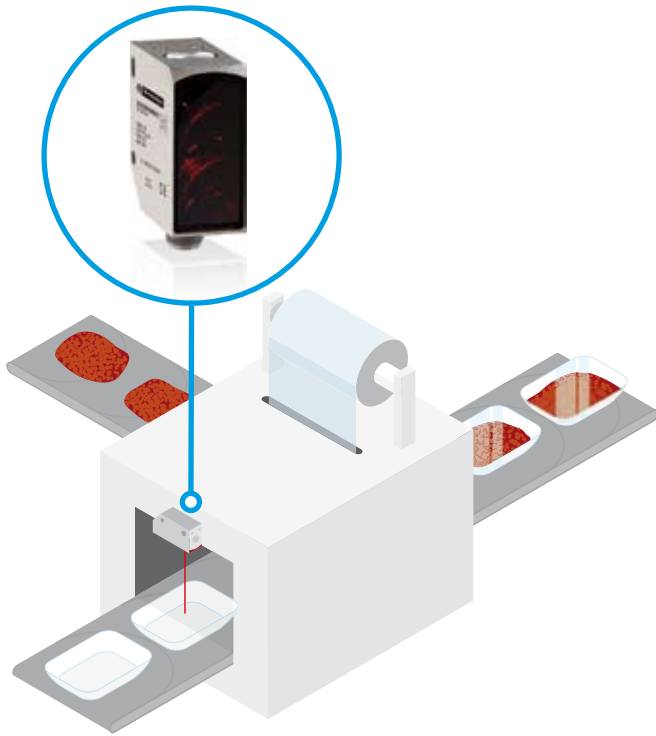
Hygiene in the food and beverage processing industry is of paramount importance. The sensors must withstand, at least once a day, cleaning in very severe conditions: high pressure, high temperature and aggressive cleaning products.

Needless to say, the photo-electric sensors must be capable of withstanding these conditions for many years, without failure. With the OsiSense XUKS (**stainless steel 316L, IP69K, ECOLAB**) range, this is successively achieved.



Telemecanique

Sensors



Benefits

Resistance to aggressive environments

In the food and beverage processing industry, the daily cleaning cycle entails:

- Washing, removal of heavy dirt
- Cleaning with an alkaline product
- Rinsing off the alkaline product
- Extracting calcium deposits using acidic product
- Disinfecting
- Rinsing off the disinfection product
- Rinsing with pure water

OsiSense XUKS has been created to withstand all these operations at high pressure and high temperature.

Ease of mounting and adjustment

High optical performance enables remote mounting and simplified setting-up:

- Background suppression up to 550mm for white, grey or black object.
- Visible red spot whatever the brightness conditions.
- Preset detection which can be simply and quickly adjusted using flush "teach" button.

Robustness

This sensor withstands all chemical and mechanical aggression:

- For resisting chemical products: ECOLAB certification
- For resisting high pressure and high temperature: degree of protection IP69K
- For resisting mechanical shocks: stainless steel 316L monobloc case.

ECOLAB

Ecoblab is a well established industrial standard within industries where chemical and cleaning products are frequently used.

The ECOLAB certificate guarantees the resistance of the sensors for the food and beverage processing industry.

IP 69 K

IP69K degree of protection has been incorporated for testing the sensors in the food and beverage processing industry

- High temperature (+80°C)
- High pressure (100 bar).

Stainless steel 316L

High quality stainless steel for very aggressive environments



Characteristics

OsiSense XUKS photo-electric sensors

- Sensing distance:
 - Background suppression, 0.55m
 - Polarised reflex, 13m
 - Thru-beam, 20m
- Simple to use, using either "teach" button or external cabling
- Visible red spot
- Switching frequency: 600Hz
- Degree of protection: IP69K
- Connection: M12, 4-pin connector
- Supply: 10... 30V DC

References

Photo-electric sensors	Background suppression	XUK8SPSMM12	Thru-beam transmitter	XUK2SKSMM12T
Osisense XUK	Polarised reflex	XUK9SPSMM12	receiver	XUK2SPSMM12R
Accessories	Pre-wired connector, 5m cable	elbowed XZCPA1241L5 straight XZCPA1141L5	Ecoblab reflector	XUJZ50CR
			Stainless steel fixing bracket	XUZA51S

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