

## Photoelectric sensors for precise long range object detection

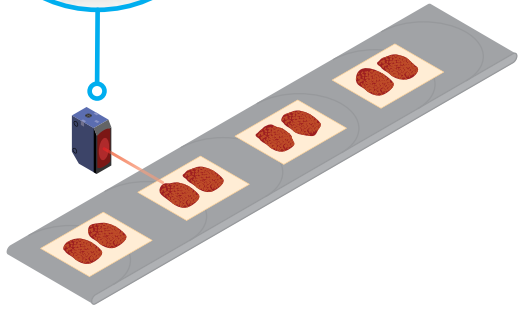
To detect small objects at a considerable distance requires a sensor providing maximum accuracy, even beyond 20 m.

OsiSense™ XUKL laser sensors meet this criterion and are available in four detection modes: background suppression, diffuse, polarized reflex, and thru-beam, for sensing distances from 0 to 25 meters.

The advantages of these products are precision for detecting small objects and repeat accuracy for the positioning of objects. A precise visible red light spot simplifies adjustment when installing the sensor or performing maintenance.

With an IP69K degree of protection and Ecolab® certification, these photoelectric sensors operate even in difficult industrial environments.





## Benefits

### Visible and precise long range detection

- Even at several decimeters, detect objects of just a few millimeters
- Repeat accuracy of laser detection enables object positioning
- Whatever the application, clearly see the red laser spot indicating the detection point

### Ease of mounting and adjustment

- Long distance detection allowing mobility of object by detecting it as far away as possible
- Mounting via fixing holes or by sliding dovetail (back and underneath)
- M12 connector, two positions (back and underneath) for suitable pre-wired female connector
- Fixing bracket providing mechanical protection

### Robust

This sensor withstands all chemical and mechanical aggression:

- For resisting chemical products: Ecolab certification
- For resisting high pressure and high temperature: IP69K degree of protection
- For resisting mechanical shocks: protective fixing bracket



## Laser

The power of the laser beam enables long range detection, beam accuracy, and a clearly visible red spot. Laser class 1 and class 2 without harmful effects to operators.

## ECOLAB®

Ecolab 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.

## IP69K

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

- High temperature (+176 °F)
- High pressure (100 bar)



## Characteristics

### Photoelectric sensors OsiSense XUKL

- Four detection modes:
  - » Background suppression, 0.8 m (laser class 1)
  - » Diffuse, 1.2 m (laser class 2)
  - » Polarized reflex, 12 m (laser class 1)
  - » Thru-beam, 25 m (laser class 1)
- Compact case, 50 x 50 x 23 mm
- Laser beam with visible spot (class 1 or class 2)
- Adjustable sensitivity using "Teach" (button or cabling) or potentiometer
- High switching frequency (3,500 Hz max.)
- NO or NC programmable contact
- Connection by M12, 4-pin connector
- IP67 and IP69K degree of protection
- Case/front face material: ABS/PMMA
- Supply voltage 10 - 30 VDC

## References

### Photoelectric sensors OsiSense XUKL

Background suppression <b>XUK8LAPPNM12</b>	Diffuse <b>XUK5LAPSM12</b>	Polarized reflex <b>XUK9LAPSM12</b>	Thru-beam transmitter/receiver <b>XUK2LAKSMM12T/XUK2LAPSM12R</b>
<b>Accessories: Fixing bracket</b>	<b>Pre-wired female connector (L = 5 m)</b>		<b>Laser reflectors</b>
Dovetail <b>XUZASK002</b>	For industrial environments	For food and beverage sector	50 x 50 mm adhesive film <b>XUZCB0501HP</b>
Protective <b>XUZASK001</b>	Elbowed <b>XZCP1241L5</b>	Elbowed <b>XZCPA1241L5</b>	50 x 50 mm standard <b>XUZC50HP</b>
Simple <b>XUZA51S</b>	Straight <b>XZCP1141L5</b>	Straight <b>XZCPA1141L5</b>	

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