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 4 detection modes: Background suppression, diffuse, polarized reflex and thru-beam, for sensing distances from 0 to 25 metres. 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 photo-electric sensors operate even in difficult industrial environments.
Characteristics

Photo-electric sensors OsiSense XUKL
- 4 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 (3500 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.

Benefits

Visible and precise long range detection
- Even at several decimetres, detect objects of just a few millimetres
- 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, 2 positions (back and underneath) for suitable pre-wired female connector
- Fixing bracket providing mechanical protection.

Robustness
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.

References

Photo-electric sensors OsiSense XUKL

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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 (+80°C)
- High pressure (100 bar).

References

Pre-wired female connectors (L = 5 m)
- Elbowed: XZCP1241L5, XZCP1141L5
- Straight: XZCPA1241L5, XZCPA141L5

Laser reflectors
- 50 x 50 mm adhesive film: XUZCB0501HP
- 50 x 50 mm standard: XUZCS05HP