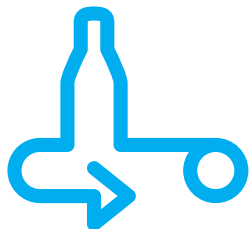# OsiSense XX reflex, the ultrasonic robust sensors for accurate detection of all types of objects

Are you looking for a sensor solution that minimizes impact from dust and light?

Reliable detection without interference from dust or light
Optimize operational costs by reducing the need to clean built-up dust or provide protection against light. The OsiSense XX sensors are unaffected by dust and strong light sources, maintaining high accuracy of detection in demanding environments.

Precision sensing of all colours, shapes, and types of material
Ensure consistently accurate detection of all objects, regardless of their colour, degree of transparency, or surface finish (glossy, matte, light-reflecting or absorbing, etc.).

Ready to use, easy to integrate
Depending on the needs of your specific application, choose from a comprehensive range offering different sizes, shapes (cylindrical or rectangular), and ready-to-use, pre-configured sensors set to the maximum of the sensing distance.
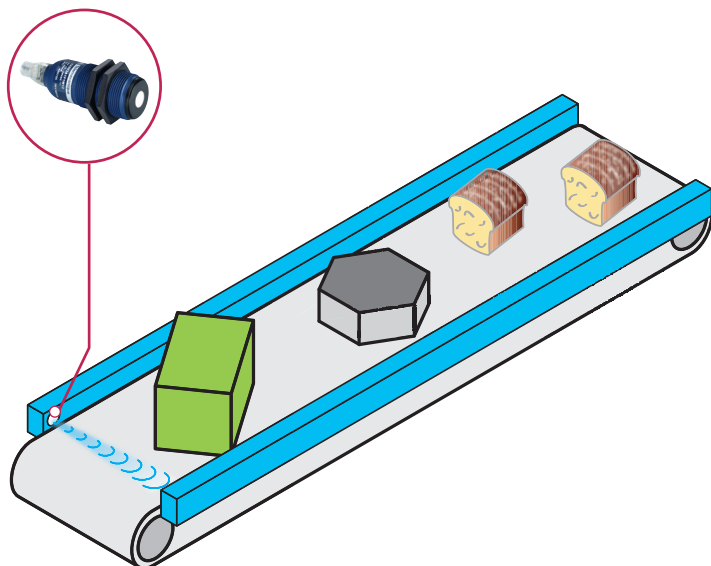
Simply easy!™

Telemecanique
Sensors

Benefits

Reliable and consistent detection

- High resistance to dust and light:
  Reduce the need to clean sensors during
  production or to shield them from external
  light sources and high visibility jackets.
- Accurate detection of all types of objects:
  The same sensing range applies to objects
  of all colours, types of material (metal, wood,
  plastic, transparent materials, etc.), as well
  as shapes, in every orientation, thanks to the
  reflex detection mode.

Easy to set up and use

- Ready-to-use reflex sensors with
  pre-configured sensing distance
- No reflector required, the ultrasound signal
  reflects off the machine surface
- Single-push adjustment of sensing distance
- Contact normally open, set to signal the
  object's presence
- No dead zone, allowing to detect objects
  close to the sensing face

Features

Sensing range 500 mm or 1 m depending on the product

- Sensing distance set by single-push
- Windows for reflector: +/-15 mm
- No dead zone for the object
- M18, M30, dual mounting, 80x80mm bodies
- Material: plastic case
- Discrete output: PNP/NO
- Supply: 24 VDC
- Connection by M12 4 pins
- Degree of protection: IP67

References

Form[1]	Material	Range	Ready to use	Reflex PNP NO[2]	Fixing bracket
M18	plastic	0...500 mm	Adjustable[2]	**XXB18A3PAM12**	**XUZA118**
M18 dual mounting	plastic	0...500 mm	Adjustable[2]	**XXBV1A1PAM12**	**XUZA118**
M30	plastic	0...1 m	Adjustable[2]	**XXBV3A1PAM12**	**XXZ30**
80 x 80 mm	plastic	0...1 m	Adjustable[2]	**XXBD1A1PAM12**	**XSZBD10**[3]

Pre-wired connector M12 5 m	
Straight	**XZCP1141L5**
Elbowed	**XZCP1241L5**

(1) for others consult Osisense XX general literature or www.tesensors.com
(2) adjustable with accessory XXZPB100
(3) for mounting on a 35 mm DIN rail

Due to the constant evolution of standards and equipment, the specifications indicated in the text and images of this document can only be guaranteed after confirmation by our departments
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