



OsiSense XUK8T, distance measurement sensors with background suppression

## Now, the solution you need to detect objects against all backgrounds

To ensure smooth and steady flow of your packaging and handling process, you need to accurately measure and control the proximity of objects moving down the conveyor belt. The OsiSense™ XUK8T compact photoelectric laser sensors offer reliable detection with high accuracy background suppression. Ultra-precise distance measurement is enabled by the time of flight (TOF) method using light velocity.

### Compact size

OsiSense XUK8T is one of the most compact sensors on the market (50x50mm). A rotating connector allows it to be easily integrated into the machine from a mechanical point of view. Standard accessories apply.

### Easy to use

Intuitive 2-click operation, with remote teach-in and no complex parametering.

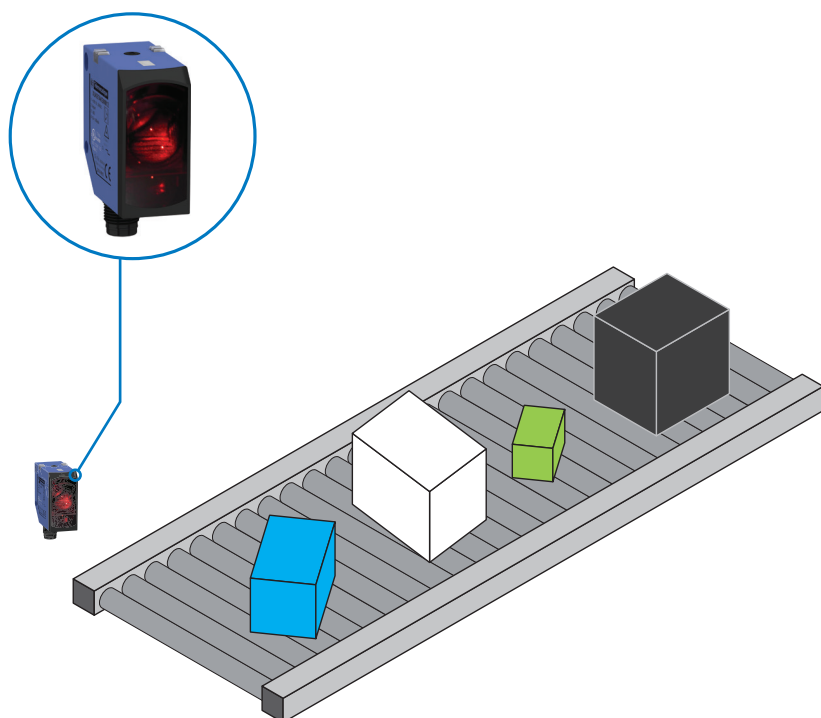
### Reliable detection

High accuracy background suppression regardless of the object's colour, position, shape, angle, etc.

Simply easy!™



**Telemecanique**  
**Sensors**



## Benefits:

### Compact and robust

- Standard 50x50mm body
- M12 connector with two cable positions
- Resistant against chemical agents and high pressure cleaning
- Remote teach-in available if space is limited and pushbutton not accessible

### Easy to use

- Adaptable to your application need: distance sensor or background suppression
- Simple fixing in standard holes or sliding dovetail (rear or underneath)
- Autodetect binary output for connection to PNP or NPN
- Easy configuration menu: only two pushbutton clicks and it's done!

### Reliable detection

- Accurate visible red laser light for small object detection
- Tilt angle detection
- Efficient background suppression even against highly reflective surfaces (high visibility vests, etc.)
- High detection rate (500hz) for fast-moving applications

## References

Distance sensors			
Outputs		1 analog 4...20mA, 1 PNP/NPN	1 analog 0...10V, 1 PNP/NPN
Sensing distance	0,1 ... 5m	XUK8TAE2MM12	XUK8TAE1MM12
Background suppression sensor			
Autodetect outputs		1 binary PNP/NPN	2 binary PNP/NPN
Sensing distance	0 ... 5m	XUK8TAKSMM12	XUK8TAKDMM12
Pre-wired connector M12 5 wires			
Type of connector		Straight	Elbowed
Cable length	2 m	XZCPV11V12L2	XZCPV12V12L2
	5 m	XZCPV11V12L5	XZCPV12V12L5
Accessories			
Protective metal angle bracket		XUZASK001	
Fine adjustment angle bracket		XUZASK004	
Dovetail fixing bracket		XUZASK002	
Simple angle bracket		XUZA51S	

## Characteristics

### Osisense XUK8T photoelectric sensors

- Time of flight (TOF) technology
- 2 detection modes
  - Distance measurement sensor 5m
  - Background suppression sensor 5m
- Several output possibilities:
  - Analog 4 ...20mA + binary outputs (2 window modes)
  - Analog 0 ...10V + binary outputs (2 window modes)
  - 1 or 2 binary outputs (threshold mode)
- Compact case , 50x50x23mm (ABS)
- Laser beam with visible red spot (class 1)
- Adjustable detection points using 'Teach-in' (button or external cabling)
- High switching frequency: 250Hz or 500Hz
- High repeatability: e.g. 1mm at 3m, white object, 1sigma
- Supply voltage: 18 ... 30VDC
- Autodetect binary output (PNP, NPN)
- Connection by M12 (5 and 4 pins) connector



Scan the QR code for more information or visit  
<http://www.tesensors.com/products/osisense-xu>

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