OsiSense for your hoisting applications

Simply easy!
Telemechanique Sensors: a world-class global brand offering a comprehensive line of products with over 25,000 types of sensors, including limit switches, pressure sensors, photoelectric and proximity sensors. In addition, we provide state-of-the-art RFID systems that are compatible with many PLC manufacturers as well as industrial encoders.

Telemechanique Sensors: has all the right agency approvals, such as IEC, NEMA, CE, CCC, UL, CSA, EAC.

Telemechanique Sensors: focused on three core values — Simplicity, Proximity, and Expertise — we have become experts in factory automation sensors as well as specialists in demanding applications, making our customers’ lives “Simply easy!”.

OsiSense™ XUK9T offers dedicated functions for overhead crane: anticollision and tandem

Robust detection

- Up to 70 m range thanks to time-of-flight method
- Simple alignment with a reflector is allowed by a bright laser red spot

Improved operator safety

- When several cranes use the same rail, the risk of collisions or dropped load is avoided by the anticollision function
- Monitoring the synchronisation of two cranes to translate heavy or large loads is made possible with the tandem function

Easy installation and teach-in

- Compact size (50mm x 50mm x 23mm)
- Teach-in button available on the device or via an external wire
Overhead and gantry crane

- Detecting an over up of the vertical movement
- Controlling stop and slow down of the horizontal movement
- Detecting a hoist overspeed
- Detecting an over travel of trolley movement
- Detecting another crane; anticollision function
- Detecting an over travel of translation movement

2 ways/2 speeds by one single sensor, compactness and robustness with positivity
Robustness and modularity (up to 28 contacts)
Long-distance detection
Robustness with positivity
Ease of installation and adjustment
The ultimate hoisting protection

1 OsiSense XCKV/XCKMR
2 OsiSense XR
3 OsiSense XUX/XUXST
4 OsiSense XCM/XCR
5 OsiSense XCC/XS
6 7 OsiSense XF
Mobile crane

1. Controlling stop and slow down of the hoisting movement
2. Monitoring and regulating hydraulic pressure
3. Detecting deployment of the stabilizers
4. Detecting position of the stabilizers

1 | OsiSense XR
2 | OsiSense XMLP/ZMLP/XMLR
3 | OsiSense XS
4 | OsiSense XCKD + XCKZ05

Robustness and modularity
Compactness and robustness for reliable regulation
Ease of installation and adjustment distance detection
Robustness for increased resistance to impact

Block hoist

1. Controlling stop up and down of the vertical movement; miniature switches incorporated in the hoist winch
2. Controlling stop of the horizontal movement

1 | OsiSense XCMD
2 | OsiSense XCR

Compactness and modularity of the head for easy mechanical integration
2 ways/1 speed, compactness and robustness with positivity
Detecting a hoist overspeed

Detecting specific position for overload or overtorque control

Detecting an over travel of trolley movement

Controlling stop and slow down of the horizontal movement

1. OsiSense XCC
2. OsiSense XCKM/XCR
3. OsiSense XF
4. OsiSense XCKVR/XCKMR
5. OsiSense XR

- Ease of installation and adjustment
- Robustness with positivity
- The ultimate trolley protection
- 2 ways/2 speeds by one single sensor, compactness and robustness with positivity
- Robustness and modularity
Controlling stop and slow down of the horizontal movement

Detecting any trolley position with resynchronisation position

Detecting an over travel of trolley movement; detecting anchoring of the long travel; monitoring the boom sequence

Controlling stop and slow down of the hoisting and boom movements

1. OsiSense XCC/XS
2. OsiSense XCKVR/XCKMR
3. OsiSense XCKM/XCR
4. OsiSense XR

- Ease of installation and adjustment
- 2 ways/2 speeds by one single sensor, compactness and robustness with positivity
- Robustness with positivity
- Robustness and modularity (up to 28 contacts)
Choose the best-suited product for your application

### Limit switches

**XCKO Metal**
- Contact: NO+NC Snap
- Connection: M16, Pg11

**XCMD Metal**
- Contact: NO+NC Snap, NO+NC Slow
- Connection: cable

**XCKM**
- Contact: NO+NC Snap
- Connection: M20, Pg13

**XF9D**
- Contact: 4 poles, 25A, 4 poles, 65A
- Connection: Pg21, Pg29

**XCKVR Plastic**
- Contact: ‘By Pass’, ‘Single Speed’, ‘Double Speed’
- Connection: M20x1.5

**XCMD Metal**
- Contact: 3 poles, 115A, 3 poles, 185A, 3 poles, 265A
- Connection: Pg36, Pg13.5

*Reset knob: replace the last 1 by 2 in the reference*

Discover our complete offer: [www.tesensors.com](http://www.tesensors.com) or contact your local sales agency

Robust and reliable
Photoelectric sensors

Inductive sensors

Pressure transmitters

Encoders

Discover our complete offer: www.tesensors.com or contact your local sales agency

Schneider Electric Industries SAS