Sensor Solutions for Hoisting Applications

Simply easy!

Telemecanique Sensors

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Telemecanique 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 industrial encoders. In addition, we provide state-of-the-art RFID systems that are compatible with many PLC manufacturers.

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

Telemecanique Sensors: focused on 3 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 cranes:
anti-collision and tandem

Robust detection
• Up to 230’ (70m) 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 anti-collision function
• Monitoring the synchronization of two cranes to translate heavy or large loads is made possible with the tandem function

Easy installation and teach-in
• Compact size: 2” x 2” x 1” (50mm x 50mm x 23mm)
• Teach-in button available on the device or via an external wire
Overhead and gantry crane

Detecting an over travel of the vertical movement

Controlling stop and slow down of the horizontal movement

Controlling stop and slow down of the hoisting movement

Detecting another crane; anticollision function

Detecting an over travel of translation movement

Detecting a hoist overspeed

Detecting an over travel of trolley movement

1. OsiSense XF*
2. OsiSense XCKVR/XCKMR
3. OsiSense XR*
4. OsiSense XUX/XUK9T
5. OsiSense XCKM/XCR
6. OsiSense XCC/XS
7. OsiSense XUX/XUK9T

The ultimate hoisting protection
Compact sensor monitors 2 speeds. Robust positive opening contacts
Robust and modular (up to 28 contacts)
Long-distance detection
Ease of installation and adjustment
Robust and includes positive contacts
**Mobile crane**

Controlling stop and slow down of the hoisting movement

Detecting deployment of the stabilizers

Monitoring and regulating hydraulic pressure

Detecting position of the stabilizers

1. OsiSense XR®
   - Robust and modular

2. OsiSense XMLP/ZMLP/XMLR
   - Compact and robust for reliable regulation
   - Robust for increased resistance to impact

3. OsiSense XCKD + XCKZ05
   - Robust for increased resistance to impact
   - Ease of installation and adjustment distance detection

4. OsiSense XS

**Block hoist**

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

1. OsiSense XCMD
   - Compact and modular head for easy mechanical integration

2. OsiSense XCR
   - Compact sensor for speed monitoring. Robust with positive opening contacts.
Tower crane

- 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 | Ease of installation and adjustment |
| 2 | OsiSense XCKM/XCR | Robust with positive opening contacts. |
| 3 | OsiSense XF | The ultimate trolley protection |
| 4 | OsiSense XR* | Robust and modular |
| 5 | OsiSense XCKVR/XCKMR | Compact sensor monitors 2 speeds. Robust positive opening contacts |
Harbor crane

1. Controlling stop and slow down of the horizontal movement

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

3. Detecting any trolley position with resynchronization position

4. Compact sensor monitors 2 speeds. Robust positive opening contacts

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

Robust and modular (up to 28 contacts)
Robust with positive opening contacts
Ease of installation and adjustment
Choose the best product for your application

Limit switches

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

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

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

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

**XF9F***
- Contact: 3 poles, 115A
- Connection: Pg36
- Contact: 3 poles, 185A
- Connection: Pg36
- Contact: 3 poles, 265A
- Connection: Pg36

**XCKVR Plastic**
- Contact: ‘By Pass’
- Connection: XCKVR24SR1H29
- Contact: ‘Single Speed’
- Connection: XCKVR44D1H29
- Contact: ‘Double Speed’
- Connection: XCKVR54SR1H29

**XCKMR Metal**
- Contact: ‘By Pass’
- Connection: M20x1.5
- Contact: ‘Single Speed’
- Connection: XCKMR44D1H29
- Contact: ‘Double Speed’
- Connection: XCKMR54D1H29

**XRBA***
- Contact: 4 cont.
- Reduction Gear Ratio: 46/1
- 60/1
- 274/1
- 6 cont.
- Reduction Gear Ratio: 13/1
- 46/1

**XR2A***
- Contact: 3 cont., 10A
- Reduction Gear Ratio: 20/1
- 40/1
- 80/1
- 4 cont., 10A
- Reduction Gear Ratio: 40/1
- 6 cont.
- Reduction Gear Ratio: 20/1

**XCRA**
- Contact: NO+NC Snap
- Connection: Pg13.5

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

**Not certified to UL**

Robust and reliable
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or contact your local sales agency
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