

Sensor Solutions for Hoisting Applications

YAGEO GROUP
Telemecanique
Sensors

> Telemecanique Sensors

Simply easy!

Founded over 100 years ago, Telemecanique Sensors is specialized in sensors and sensor-related technology. As a global leader in the sensors business, we help our customers select the right technology to get the best performance and reliability from their machines.



> Innovation Focus

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

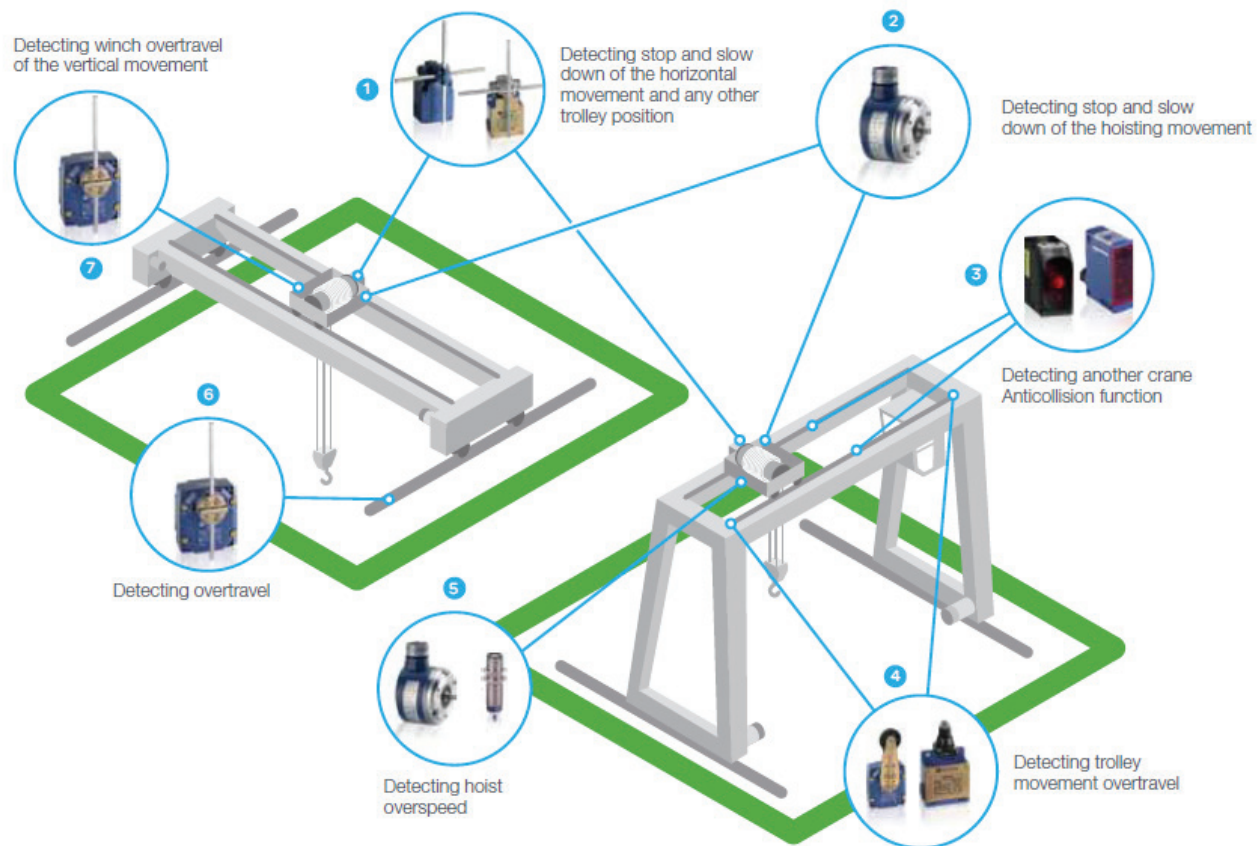
- When several cranes use the same rail, the risk of collisions or dropped load is avoided by the anti-collision function
- Monitoring the synchronization of two cranes to translate heavy or large loads is made possible with the tandem function

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



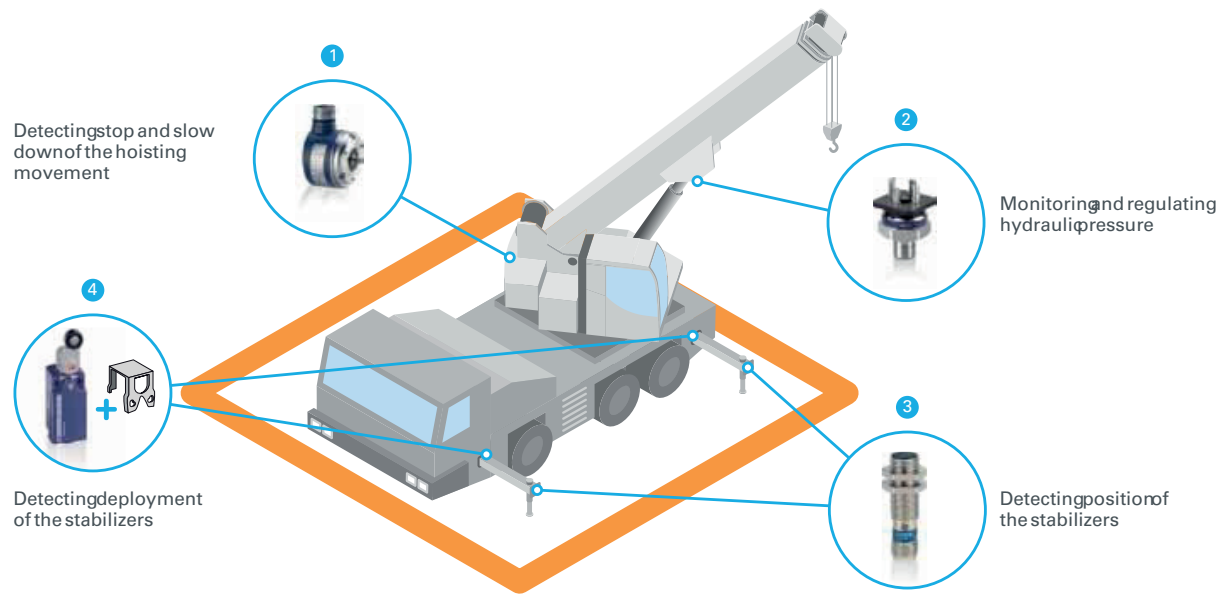
> Overhead and gantry crane



1	5	OsiSense XF*	The ultimate hoisting protection
2		OsiSense XCKVR/XCKMR	Compact sensor monitors 2 speeds. Robust positive opening contacts
3		OsiSense XR*	Robust and modular (up to 28 contacts)
4		OsiSense XUX/XUK9T	Long-distance detection
6		OsiSense XCC/XS	Ease of installation and adjustment
7		OsiSense XCKM/XCR	Robust and includes positive contacts

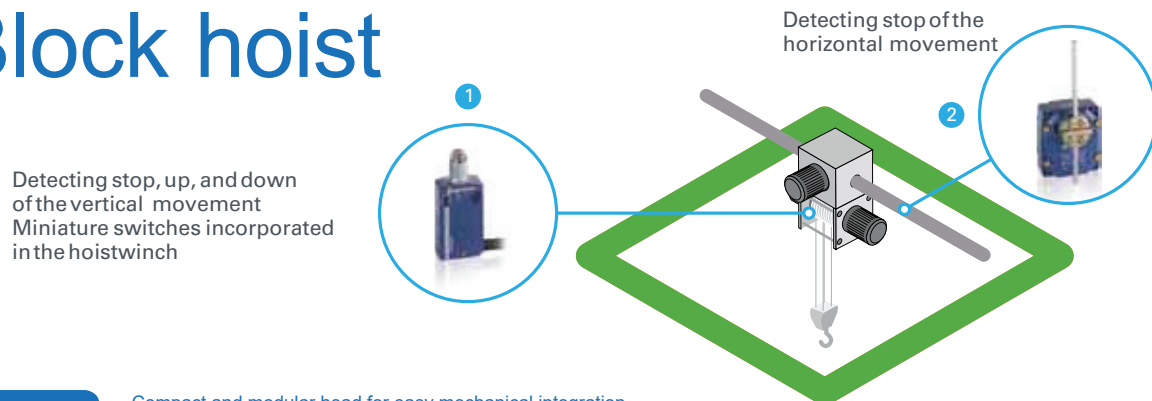


> Mobile crane



- | | |
|---------------------------|--|
| 1 OsiSense XR* | Robust and modular |
| 2 OsiSense XMLP/ZMLP/XMLR | Compact and robust for reliable regulation |
| 3 OsiSense XCKD + XCKZ05 | Robust for increased resistance to impact |
| 4 OsiSense XS | Ease of installation and adjustment distance detection |

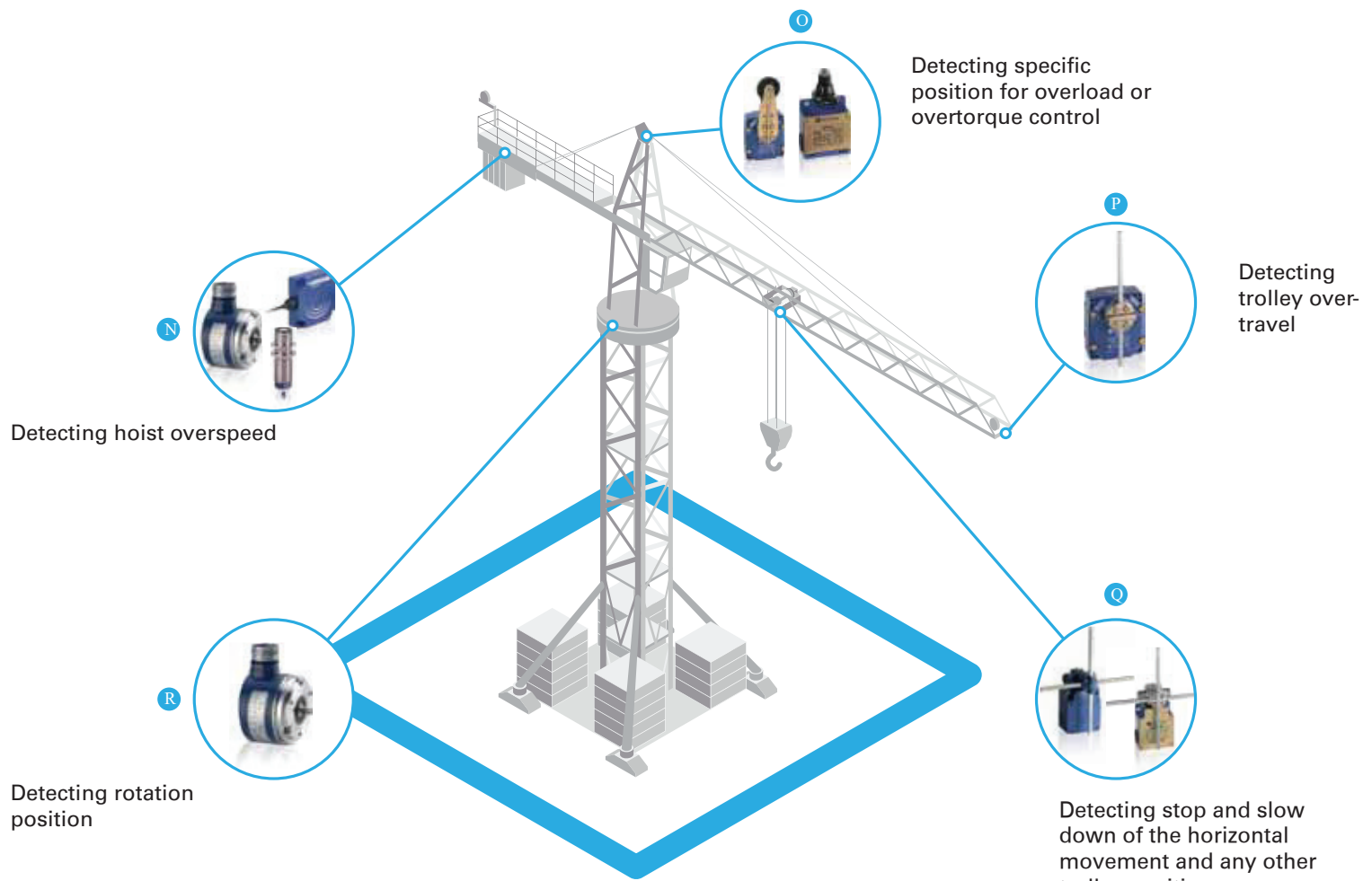
> Block hoist



- | | |
|-----------------|---|
| 1 OsiSense XCMD | Compact and modular head for easy mechanical integration |
| 2 OsiSense XCR | Compact sensor for speed monitoring. Robust with positive opening contacts. |



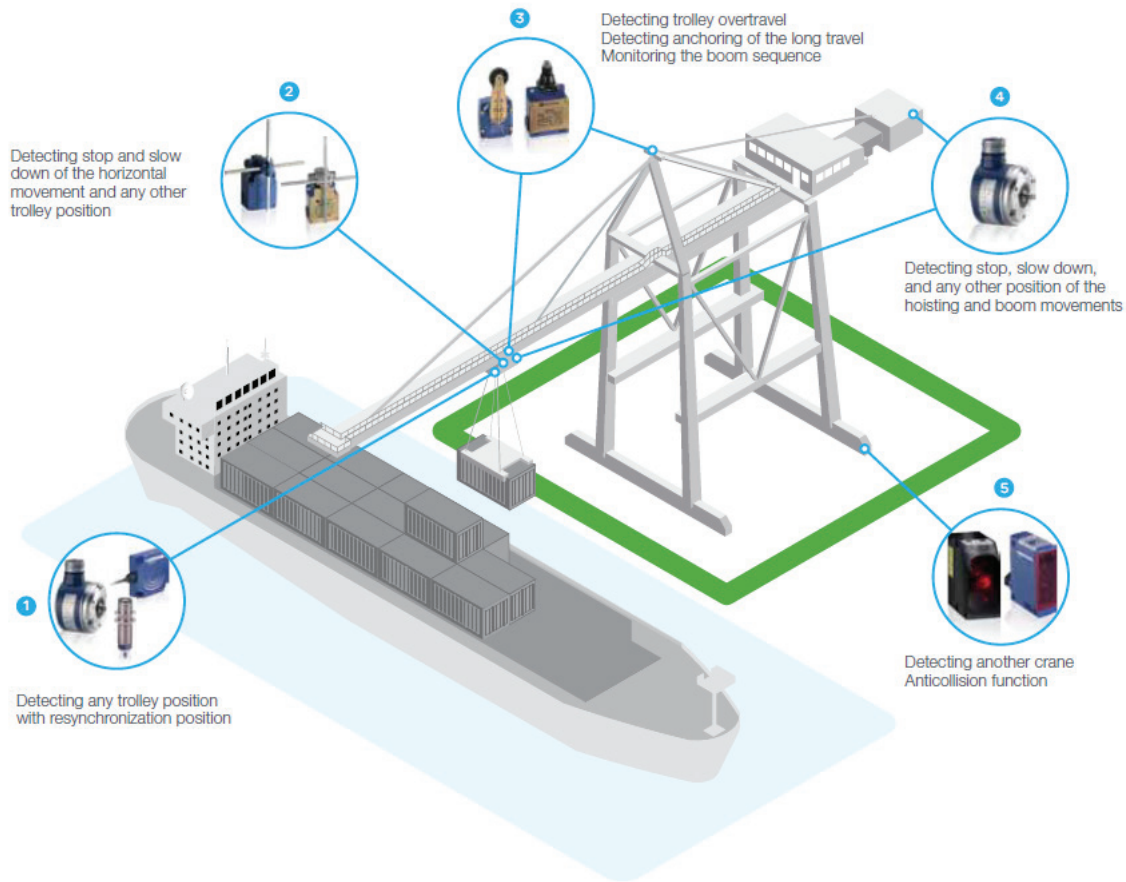
> Tower crane



- | | |
|------------------------|--|
| 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 | OsiSense XCKVR/XCKMR | Compact sensor monitors 2 speeds. Robust positive opening contacts |
| 2 | OsiSense XR* | Robust and modular (up to 28 contacts) |
| 3 | OsiSense XCKM/XCR | Robust with positive opening contacts |
| 4 | OsiSense XCC/XS | Ease of installation and adjustment |



> Choose the best product for your application

Limit switches



XCKD Metal

Contact
NO+NC Snap

Connection
M16
Pg11



XCKD2110P16
XCKD2110G11



XCKD2102P16
XCKD2102G11



XCKD2118P16
XCKD2118G11



XCKM

Contact
NO+NC Snap

M20
Pg13

XCKM110H29
XCKM110

XCKM102H29
XCKM102

XCKM115H29
XCKM115

XCKM121H29
XCKM121



XF9D*

Contact
4 poles, 25A
4 poles, 65A

Connection
Pg21
Pg29

XF9D251
XF9D651

XF9F*

Contact
3 poles, 115A
3 poles, 185A
3 poles, 265A

Connection
Pg36

XF9F1151**
XF9F1851**
XF9F2651**

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



XCKVR Plastic

Contact
'By Pass'
'Single Speed'
'Double Speed'

Connection
M20x1.5

XCKVR24SR1H29
XCKVR44D1H29
XCKVR54SR1H29

XCKMR Metal

Contact
'By Pass'
'Single Speed'
'Double Speed'
'Double Speed'

Connection
M20x1.5
Pg13.5

XCKMR24SR1H29
XCKMR44D1H29
XCKMR54D1H29
XCKMR54D1



XRBA*

Contact
4 cont.

6 cont.

Reduction Gear Ratio
46/1
60/1
274/1
13/1
46/1

XRBA43100
XRBA44100
XRBA47100
XRBA61100
XRBA63100

XR2A*

Contact
3 cont., 10A

4 cont., 10A
6 cont.

Reduction Gear Ratio
20/1
40/1
80/1
40/1
20/1

XR2AA03K20
XR2AA03K40
XR2AA03K80
XR2AB04K40
XR2AB06K20



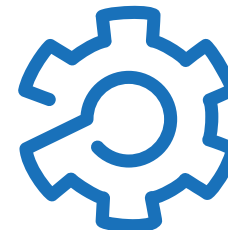
XCRA

Contact
NO+NC Snap

Connection
Pg13.5

XCRA11

XCRA15



Robust and reliable

Discover our complete offer: www.tesensors.com
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* Not certified to UL

Photoelectric sensors

XU						
Sensing distance			11 m	70 m	Recommended reflector	Recommended cable
AC/DC 24 V	Relay	Terminals	XUX9ARCTN16		XUZC100	
		M12 - 5 pins			XUZC250	
		M12 - 8 pins	XUK9TAH2MM12		XUZC250	XZCP29P12L10

Inductive sensors

							
			Ø 12 mm	Ø 18 mm	15x32x8 mm	26x26x13 mm	40x40x15 mm
XS	Sensing distance		4 mm	8 mm	5 mm	10 mm	15 mm
DC 3 wires NO	PNP	cable	XS112B3PAL2	XS118B3PAL2	XS7F1A1PAL2	XS7E1A1PAL2	XS7C1A1PAL2
		connector	XS112B3PAM12	XS118B3PAM12	XS7F1A1PAL01M8	XS7E1A1PAM8	XS7C1A1PAM8
	NPN	cable	XS112B3NAL2	XS118B3NAL2	XS7F1A1NAL2	XS7E1A1NAL2	XS7C1A1NAL2
		connector	XS112B3NAM12	XS118B3NAM12	XS7F1A1NAL01M8	XS7E1A1NAM8	XS7C1A1NAM8
DC 4 wires NO+NC	PNP	connector	XS112B3PCM12	XS118B3PCM12			

Pressure transmitters

XM		Hydraulic oils, air, fresh water, sea water, gases			Switch and display for XMLP		
			PNP		M12 connector*		
					PNP		
	-30 ... +100 °C		2 switching outputs		Analog 4 ... 20 mA + 1 switching output		
	Bars	Psi			Analog 4 ... 20 mA		
	100	1450	XMLR100M2P05	XMLR100M1P25	XMLP100BD22		
	160	2320	XMLR160M2P05	XMLR160M1P25	XMLP160BD22		
	250	3625	XMLR250M2P05	XMLR250M1P25	XMLP250BD22		
	400	5800	XMLR400M2P05	XMLR400M1P25	XMLP400BD22		
600	8700	XMLR600M2P05	XMLR600M1P25	XMLP600BD22			
*For EN175301-803-A connector, replace D by C in the reference (example: XMLP250BD22 becomes XMLP250BC22)							

Encoders

		Ø 58 mm		Ø 90 mm	
XCC	Resolution	Solid shaft	Through shaft	Solid shaft	Through shaft
	Incremental	500 pts	XCC1510PS05Y		
		1024 pts	XCC1510PS11Y	XCC1514TS11Y	
		10,000 pts			XCC1912PS00KN XCC1930TS00KN
Absolute multiturn		8192 pts/4096 turns	XCC3510PS84SGN	XCC3514TS84SB	XCC3912PS84SGN XCC3912TS84SGN
					

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TMSS France SAS
Share capital: 366 931 214 euros
2 Avenue Gambetta - Tour Eqho
92400 Courbevoie
908 125 255 RCS de Nanterre
www.telemecaniquesensors.com

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