

OsiSense for your hoisting applications



Simply easy!™



Telemecanique

> Telemecanique Sensors

Simply easy!

Simplicity



Expertise



Proximity



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

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

Telemecanique 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!".

> Innovation focus

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

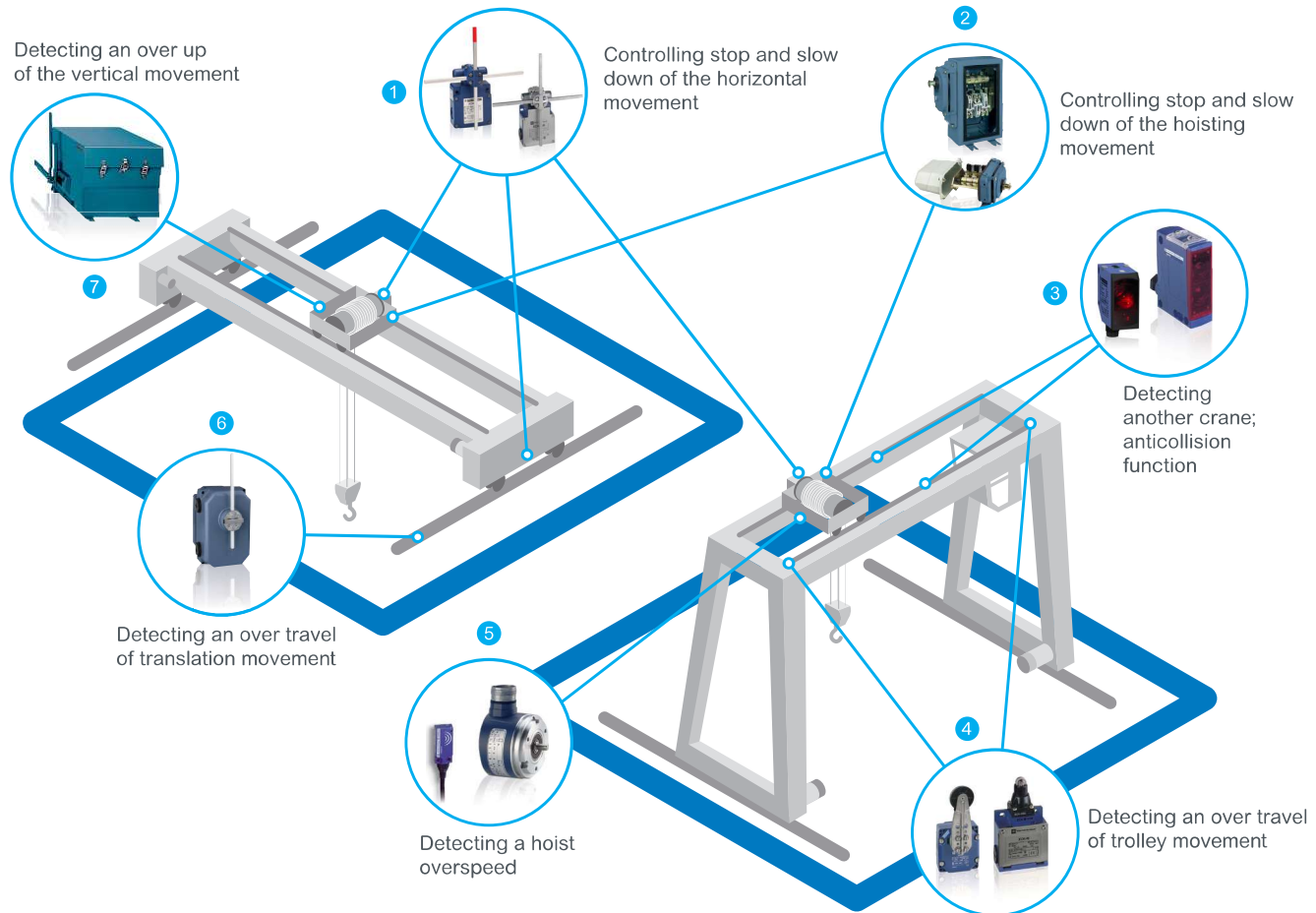
- When several cranes use the same rail, the risk of collisions or dropped load is avoided by the anticollision function
- Monitoring the synchronisation of two cranes to translate heavy or large loads is made possible with the tandem function

Easy installation and teach-in

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



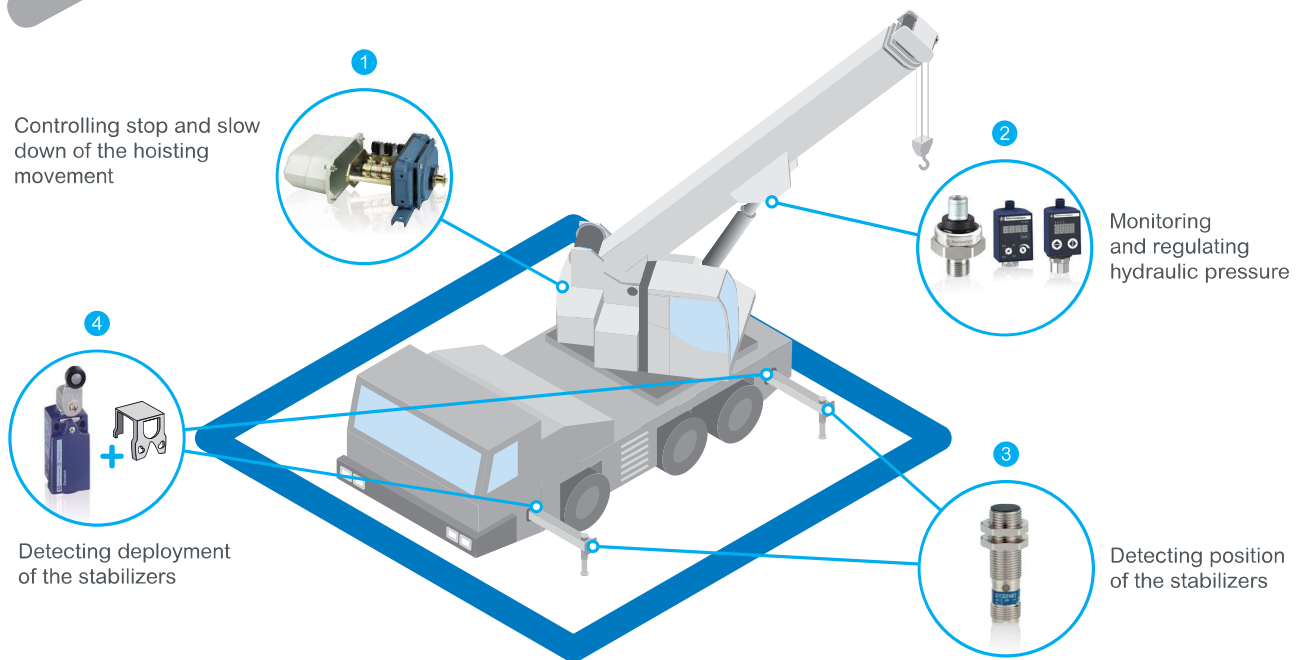
> Overhead and gantry crane



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|---|----------------------|--|
| 1 | OsiSense XCKVR/XCKMR | 2 ways/2 speeds by one single sensor, compactness and robustness with positivity |
| 2 | OsiSense XR | Robustness and modularity (up to 28 contacts) |
| 3 | OsiSense XUX/XUK9T | Long-distance detection |
| 4 | OsiSense XCKM/XCR | Robustness with positivity |
| 5 | OsiSense XCC/XS | Ease of installation and adjustment |
| 6 | 7 OsiSense XF | The ultimate hoisting protection |

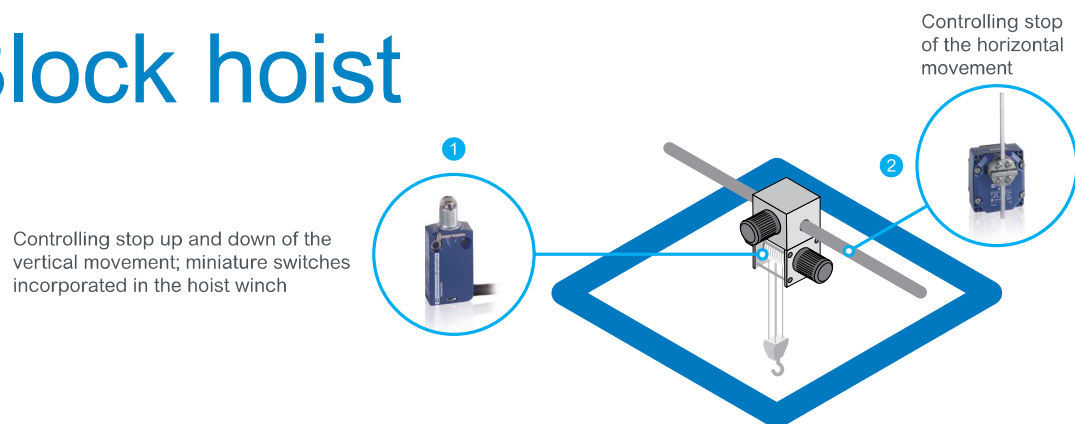


> Mobile crane



- | | |
|---------------------------|--|
| 1 OsiSense XR | Robustness and modularity |
| 2 OsiSense XMLP/ZMLP/XMLR | Compactness and robustness for reliable regulation |
| 3 OsiSense XS | Ease of installation and adjustment distance detection |
| 4 OsiSense XCKD + XCKZ05 | Robustness for increased resistance to impact |

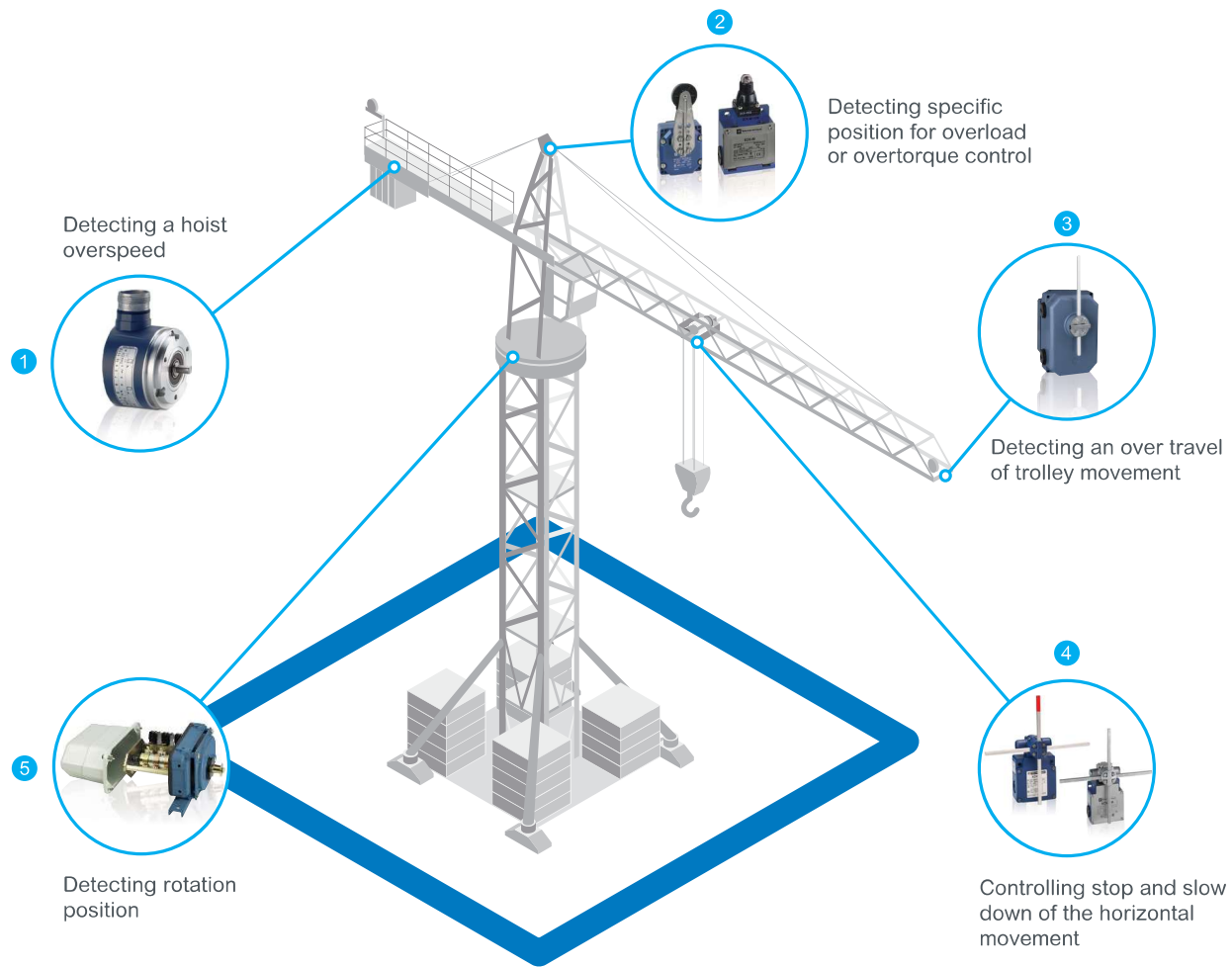
> Block hoist



- | | |
|-----------------|--|
| 1 OsiSense XCMD | Compactness and modularity of the head for easy mechanical integration |
| 2 OsiSense XCR | 2 ways/1 speed, compactness and robustness with positivity |



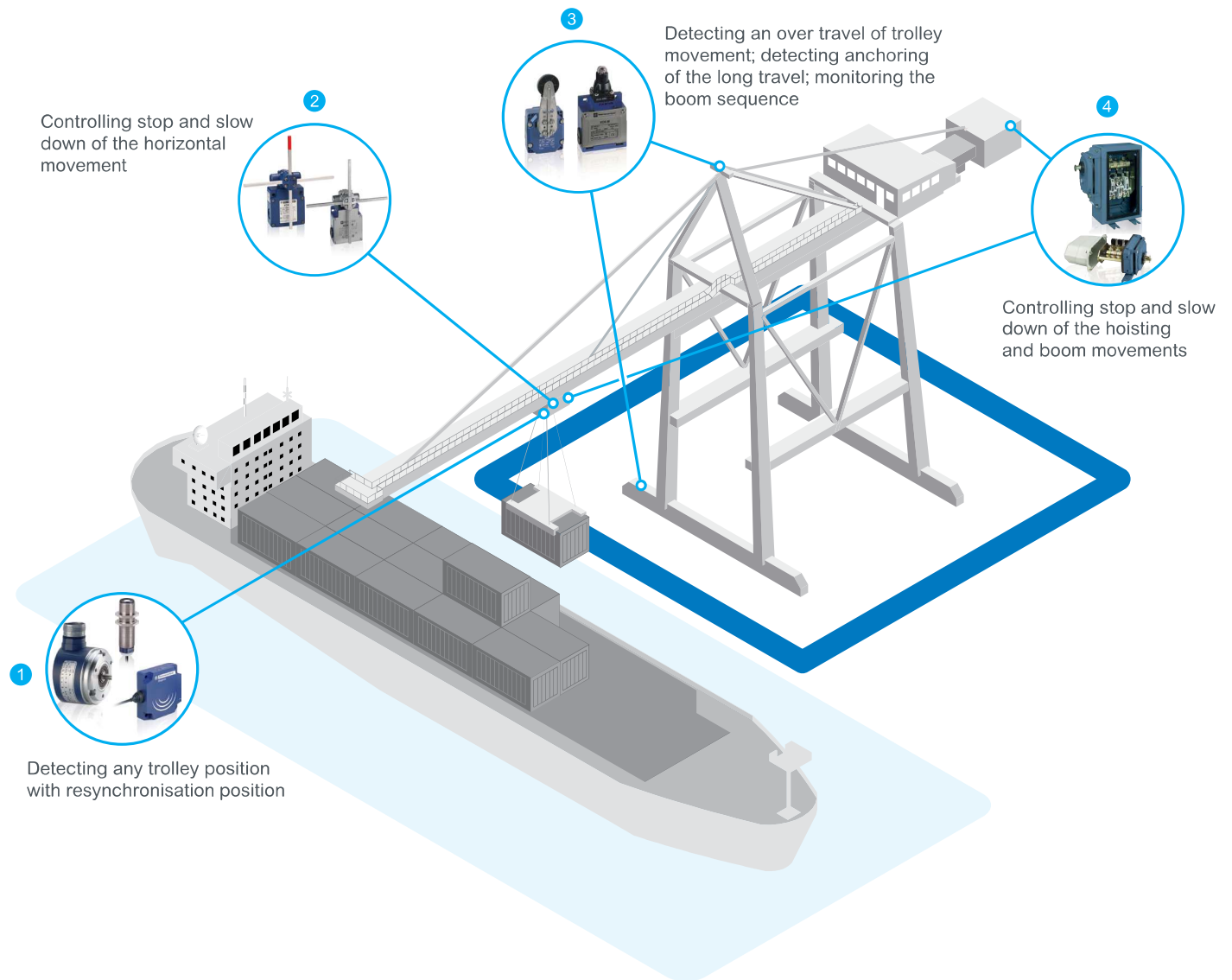
> Tower crane



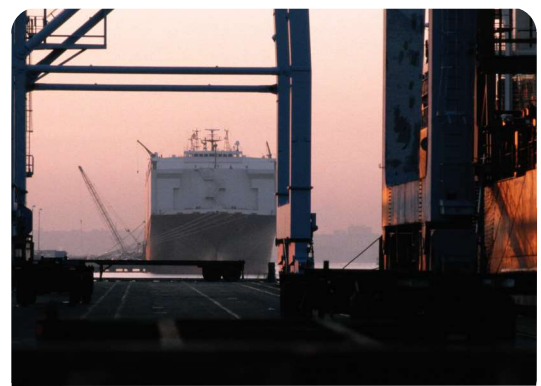
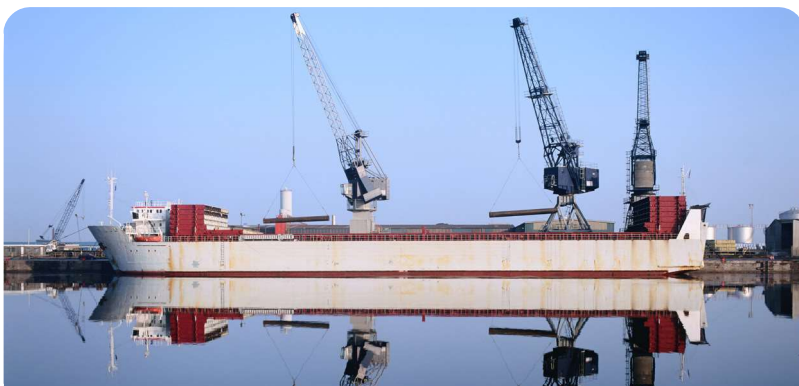
- | | |
|------------------------|--|
| 1 OsiSense XCC | Ease of installation and adjustment |
| 2 OsiSense XCKM/XCR | Robustness with positivity |
| 3 OsiSense XF | The ultimate trolley protection |
| 4 OsiSense XCKVR/XCKMR | 2 ways/2 speeds by one single sensor, compactness and robustness with positivity |
| 5 OsiSense XR | Robustness and modularity |



> Harbour crane






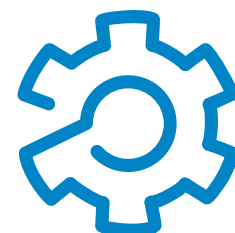
- | | |
|------------------------|--|
| 1 OsiSense XCC/XS | Ease of installation and adjustment |
| 2 OsiSense XCKVR/XCKMR | 2 ways/2 speeds by one single sensor, compactness and robustness with positivity |
| 3 OsiSense XCKM/XCR | Robustness with positivity |
| 4 OsiSense XR | Robustness and modularity (up to 28 contacts) |



> Choose the best-suited product for your application

Limit switches

	XCKD Metal	Contact NO+NC Snap	Connection M16 Pg11	 XCKD2110P16 XCKD2110G11	 XCKD2102P16 XCKD2102G11	 XCKD2118P16 XCKD2118G11	
	XCMD Metal	Contact NO+NC Snap NO+NC Slow	Connection cable	XCMD2110L1 XCMD2510L1	XCMD2102L1 XCMD2502L1	XCMD2115L1 XCMD2515L1	
	XCKM	Contact NO+NC Snap	Connection 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 * Reset knob: replace the last 1 by 2 in the reference
							XF9F1151* XF9F1851* XF9F2651*
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


Photoelectric sensors

XU							
Sensing distance			11 m	30 m	70 m	Recommended reflector	Recommended cable
AC/DC 24 V	Relay	Terminals	XUX9ARCTN16			XUZC100	
		M12 - 5 pins		XUE1AA2NM12		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		Analogue 4 ... 20 mA + 1 switching output	2 switching outputs		
	Bars	Psi				Analogue 4 ... 20 mA + 1 switching output		
	100	1450	XMLR100M2P05	XMLR100M1P25	XMLP100BD22	ZMLPA2P0SH	ZMLPA1P2SH	
	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

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

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