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

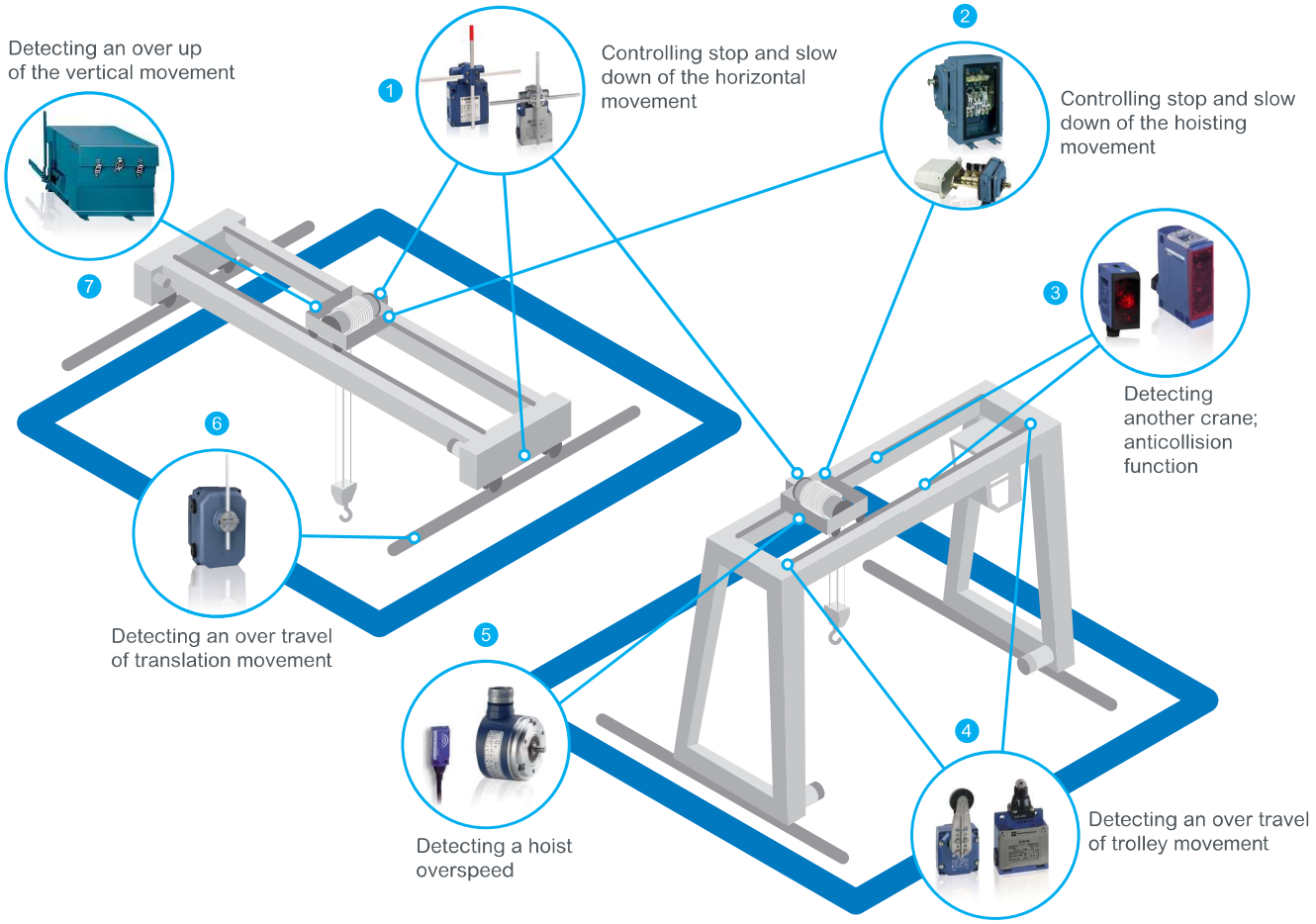
Improved operator safety

- 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

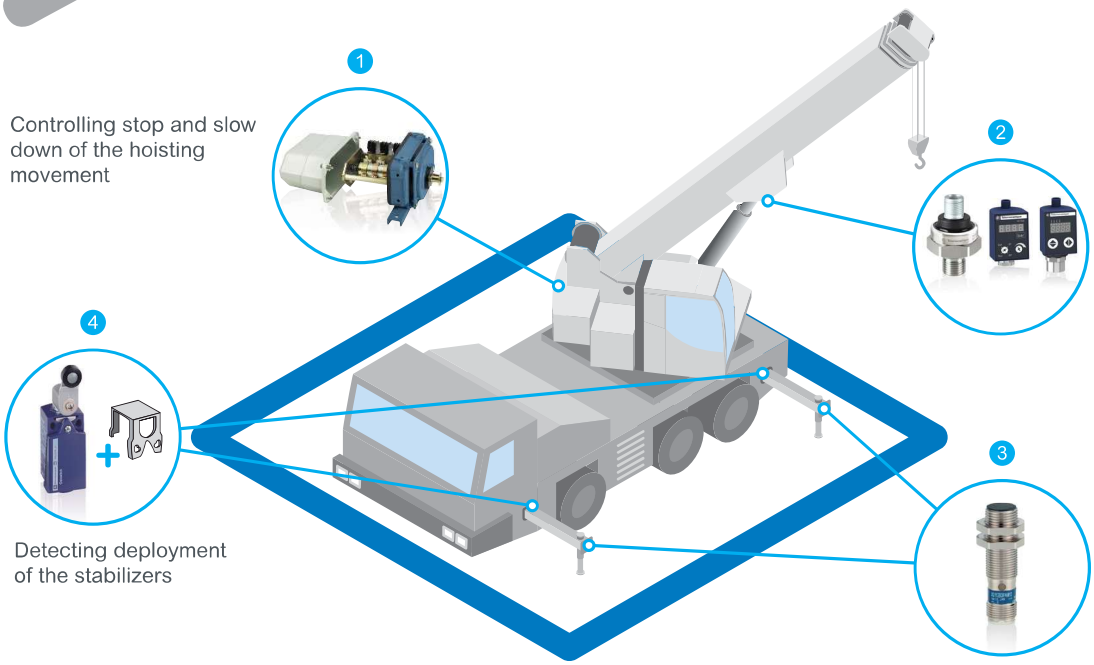
- Compact size (50mm x 50mm x 23mm)
- Teach-in button available on the device or via an external wire

Overhead and gantry crane



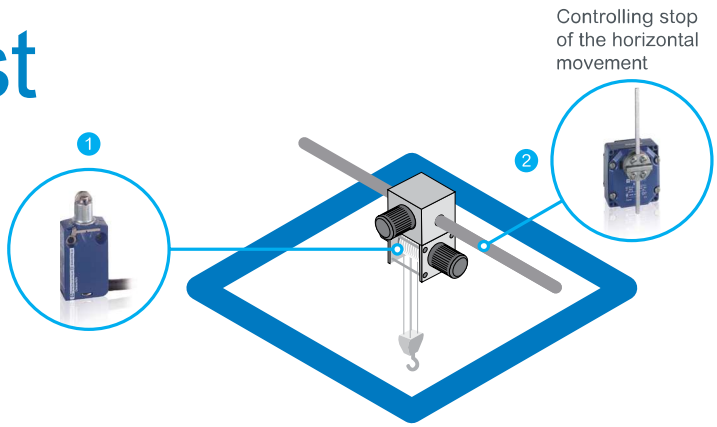
1	OsiSense XCKVR/XCKMR	2 ways/2 speeds by one single sensor, compactness and robustness with positivity
2	OsiSense XR	Robustness and modularity (up to 28 contacts)
3	OsiSense XUX/XUK9T	Long-distance detection
4	OsiSense XCKM/XCR	Robustness with positivity
5	OsiSense XCC/XS	Ease of installation and adjustment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

Mobile crane



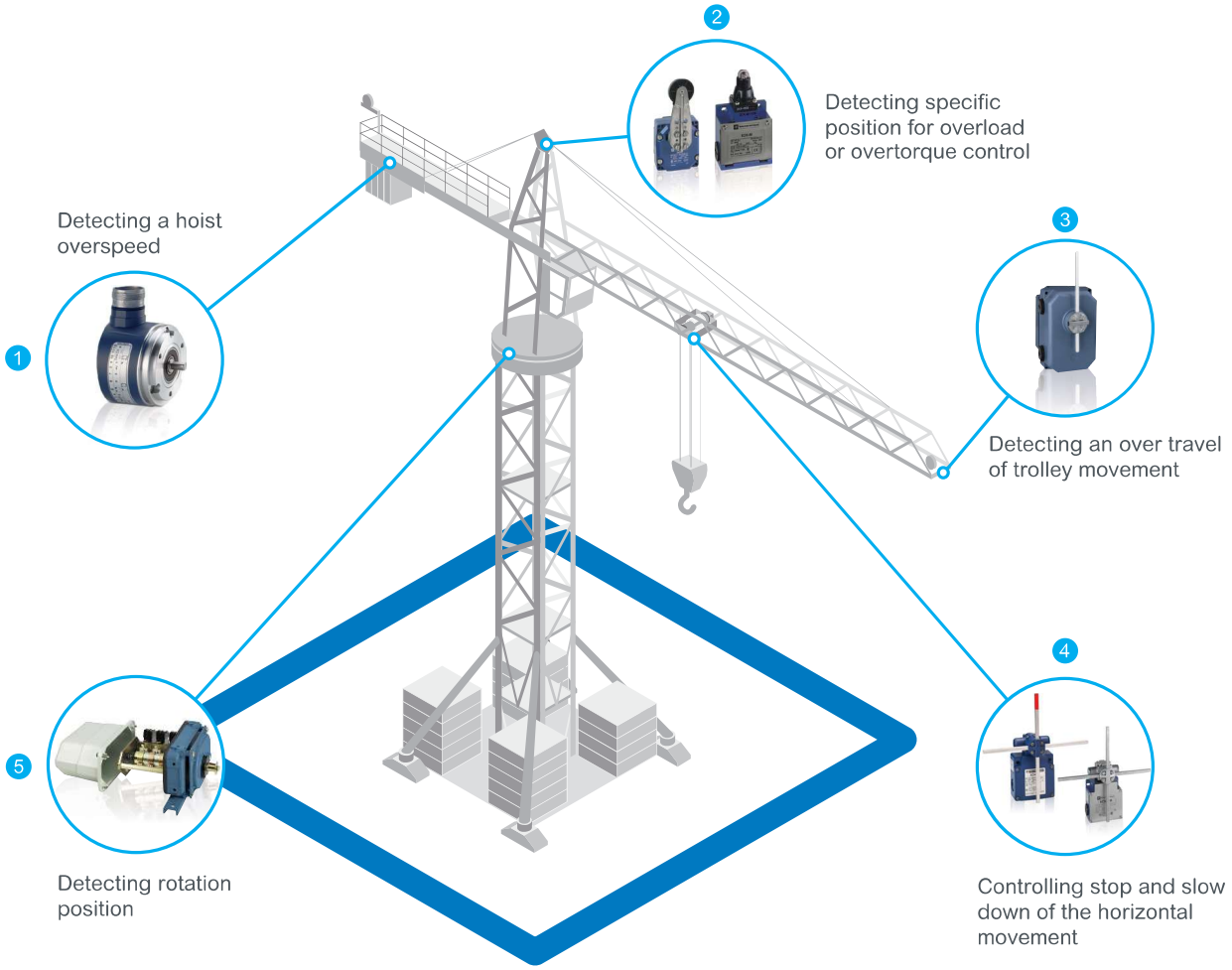
1	OsiSense XR	Robustness and modularity
2	OsiSense XMLP/ZMLP/XMLR	Compactness and robustness for reliable regulation
3	OsiSense XS	Ease of installation and adjustment distance detection
4	OsiSense XCKD + XCKZ05	Robustness for increased resistance to impact

Block hoist



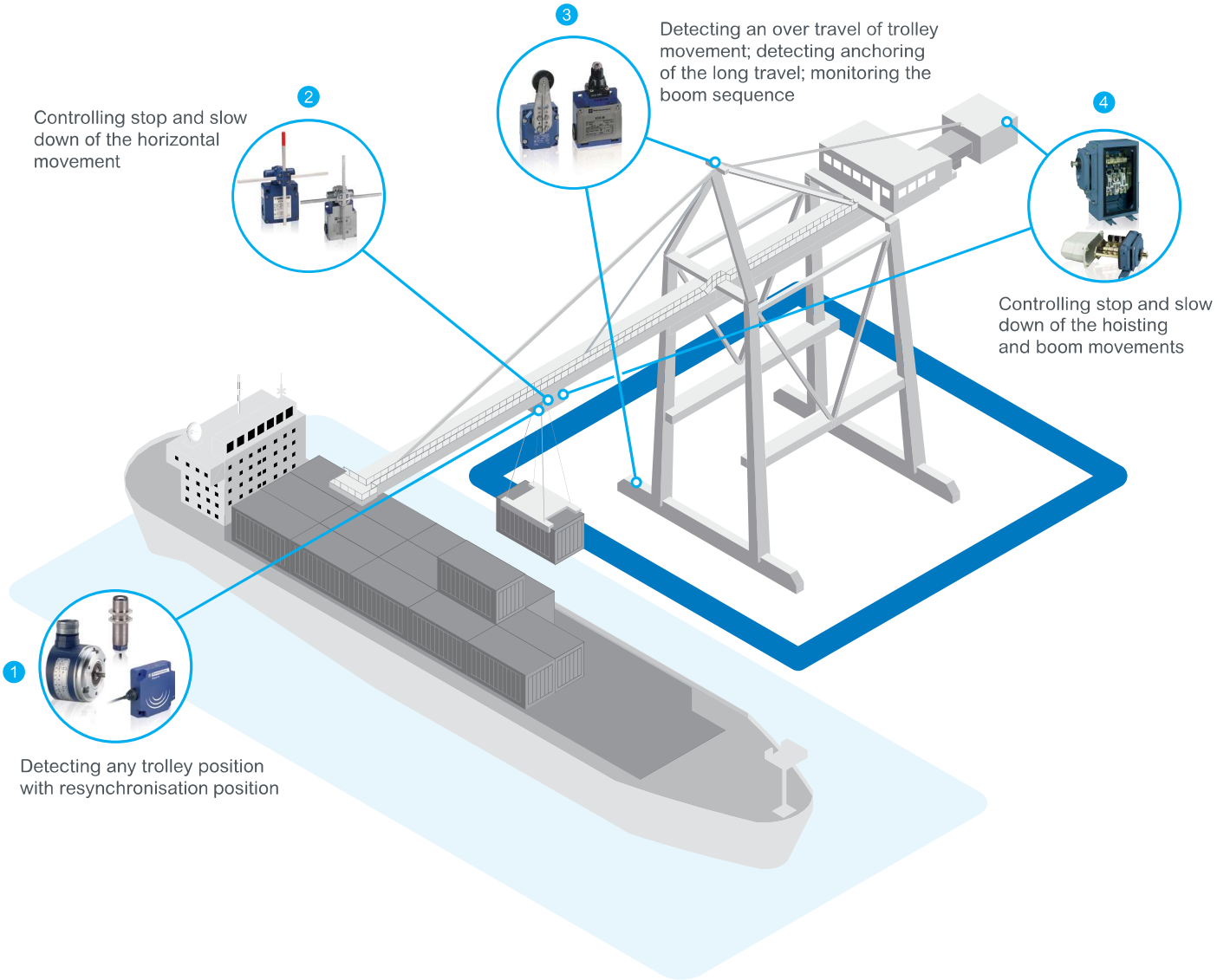
1	OsiSense XCMD	Compactness and modularity of the head for easy mechanical integration
2	OsiSense XCR	2 ways/1 speed, compactness and robustnss with positivity

Tower crane

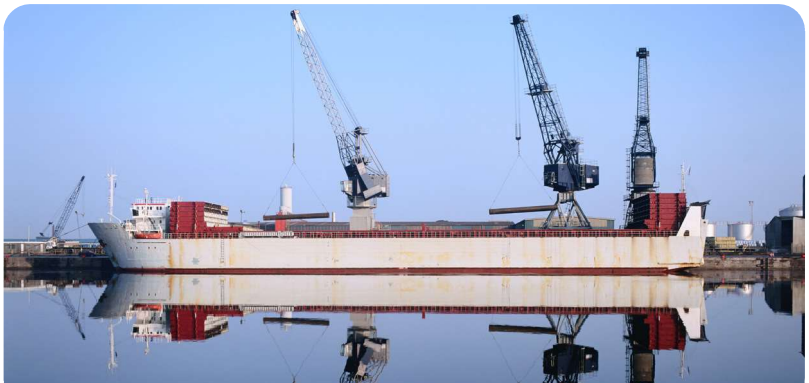


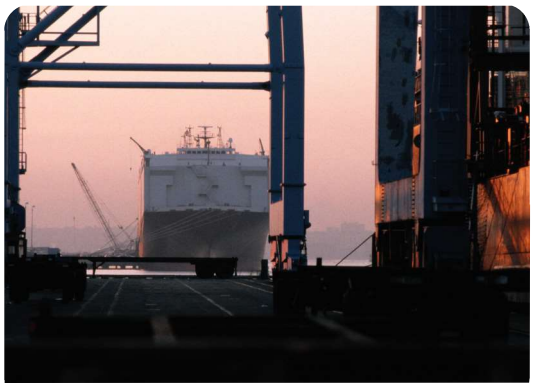
1	OsiSense XCC	Ease of installation and adjustment
2	OsiSense XCKM/XCR	Robustness with positivity
3	OsiSense XF	The ultimate trolley protection
4	OsiSense XCKVR/XCKMR	2 ways/2 speeds by one single sensor, compactness and robustness with positivity
5	OsiSense XR	Robustness and modularity

Harbour crane



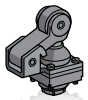
1	OsiSense XCC/XS	Ease of installation and adjustment
2	OsiSense XCKVR/XCKMR	2 ways/2 speeds by one single sensor, compactness and robustness with positivity
3	OsiSense XCKM/XCR	Robustness with positivity
4	OsiSense XR	Robustness and modularity (up to 28 contacts)





Choose the best-suited product for your application

Limit switches

	Contact	Connection				
XCKD Metal	NO+NC Snap	M16	XCKD2110P16	XCKD2102P16	XCKD2118P16	
		Pg11	XCKD2110G11	XCKD2102G11	XCKD2118G11	

XCMD Metal	NO+NC Snap	cable	XCMD2110L1	XCMD2102L1	XCMD2115L1	
	NO+NC Slow		XCMD2510L1	XCMD2502L1	XCMD2515L1	

XCKM	NO+NC Snap	M20	XCKM110H29	XCKM102H29	XCKM115H29	XCKM121H29
		Pg13	XCKM110	XCKM102	XCKM115	XCKM121

XF9D	Contact	Connection	
	4 poles, 25A	Pg21	XF9D251
	4 poles, 65A	Pg29	XF9D651

XF9F	Contact	Connection	
	3 poles, 115A		XF9F1151*
	3 poles, 185A	Pg36	XF9F1851*
	3 poles, 265A		XF9F2651*

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

XCKVR Plastic	Contact	Connection	
	'By Pass'		XCKVR24SR1H29
	'Single Speed'	M20x1.5	XCKVR44D1H29
	'Double Speed'		XCKVR54SR1H29

XCKMR Metal	Contact	Connection	
	'By Pass'		XCKMR24SR1H29
	'Single Speed'	M20x1.5	XCKMR44D1H29
	'Double Speed'		XCKMR54D1H29
	'Double Speed'	Pg13.5	XCKMR54D1

XRBA	Contact	Reduction Gear Ratio	
	4 cont.	46/1	XRBA43100
		60/1	XRBA44100
		274/1	XRBA47100
	6 cont.	13/1	XRBA61100
		46/1	XRBA63100

XR2A	Contact	Reduction Gear Ratio	
	3 cont., 10A	20/1	XR2AA03K20
		40/1	XR2AA03K40
		80/1	XR2AA03K80
	4 cont., 10A	40/1	XR2AB04K40
	6 cont.	20/1	XR2AB06K20

XCRA	Contact	Connection		
	NO+NC Snap	Pg13.5	XCRA11	XCRA15

Robust and reliable

Photoelectric sensors

XU							
Sensing distance			11 m	30 m	70 m	Recommended reflector	Recommended cable
AC/DC	Relay	Terminals	XUX9ARCTN16			XUZC100	
24 V	2 PNP + Analogic	M12 - 5 pins		XUE1AA2NM12		XUZC250	
		M12 - 8 pins			XUK9TAH2MM12	XUZC250	XZCP29P12L10

Inductive sensors

XS	Sensing distance		Ø 12 mm 4 mm	Ø 18 mm 8 mm	15x32x8 mm 5 mm	26x26x13 mm 10 mm	40x40x15 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

-30 ... +100 °C		PNP		M12 connector*
Bars	Psi	2 switching outputs	Analogue 4 ... 20 mA + 1 switching output	Analogue 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)

Switch and display for XMLP

PNP	
2 switching outputs	Analogue 4 ... 20 mA + 1 switching output
ZMLPA2P0SH	ZMLPA1P2SH

Encoders

XCC	Resolution	ø 58 mm Solid shaft	ø 58 mm Through shaft	ø 90 mm Solid shaft	ø 90 mm 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

Schneider Electric Industries SAS

Head Office
35, rue Joseph Monier – CS 30323
F92506 Rueil-Malmaison Cedex
FRANCE

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Design: BlueLoft
Print: Schneider Electric™
Photo: Schneider Electric, Fotosearch

D1110604EN