

Sensor Solutions for Mobile Lift Applications



> Telemecanique Sensors

Simply easy!

Simplicity



Proximity



Expertise



Telemecanique Sensors is a world-class global brand offering a comprehensive line of products with over 25,000 types of sensors, including limit switches, pressure sensors, photoelectric sensors and proximity sensors. 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 UL, IEC, NEMA, CE, CCC, UL, CSA, and EAC.

Telemecanique Sensors is 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



The new, software-configurable XXW54 Wide Beam Ultrasonic Sensor is a highly effective way to avoid mobile equipment collisions, both on the ground and when boom or scissor lift platforms rise into the air. The newly designed PCB of the sensor expands the width of the detection beam so it can cover a greater area.

Detection over a large coverage area

- Emits a beam with a 50° angle up to 1.5 meters.
- When conditions require multiple sensors installed in close proximity to each other, the 'synchronization' feature of the new XX Ultrasonic sensors allows reliable detection of objects from each sensor with minimal risk of cross-talk.

Detection of obstacles in harsh environments

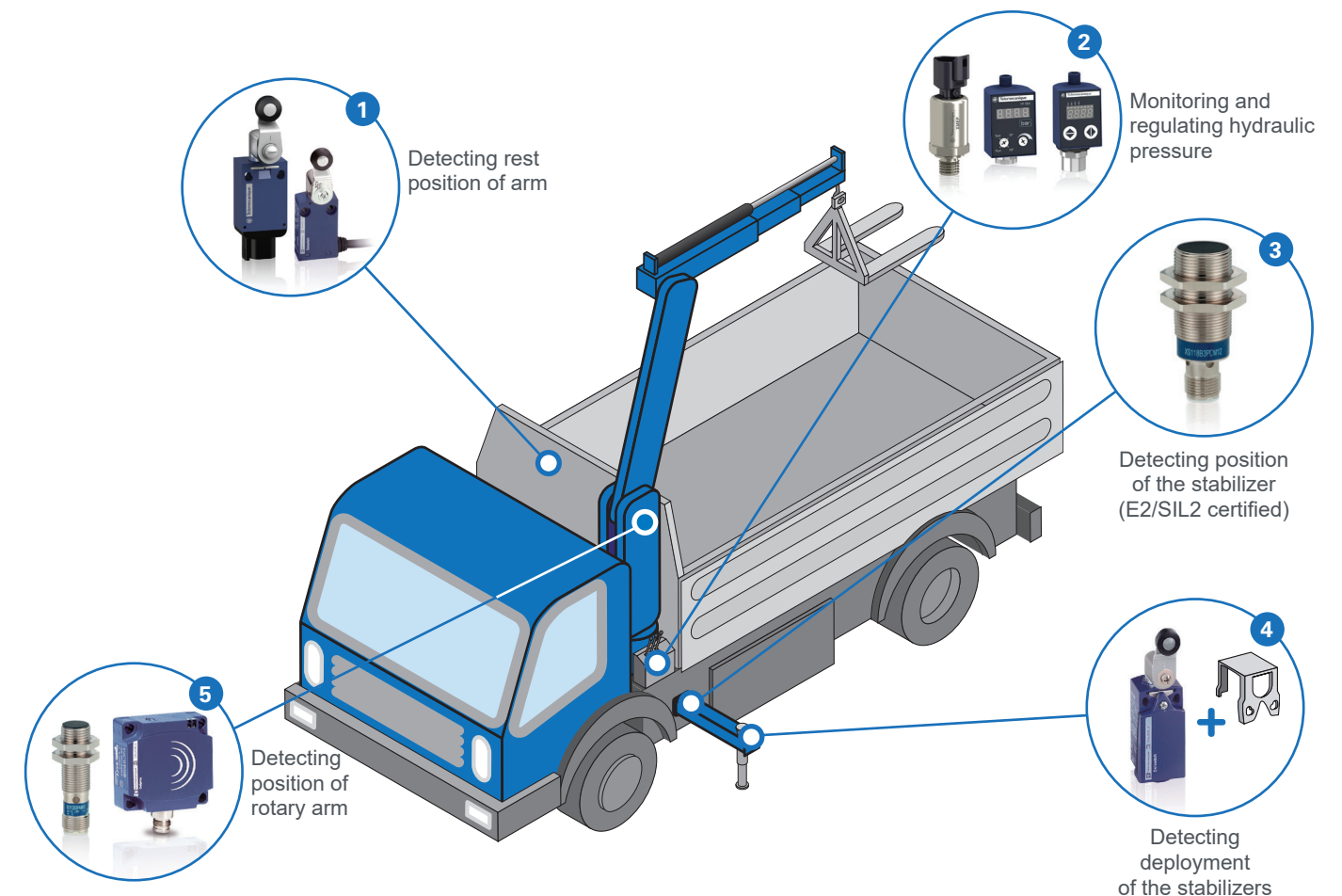
- Anti-UV plastic housing allows operation in temperatures ranging from -40° C to +70° C.

Highly immune to electromagnetic interference

- The new XX Ultrasonic Sensors are E2-certified for mobile equipment. This entails a higher immunity to electromagnetic interference even in the most demanding environments.



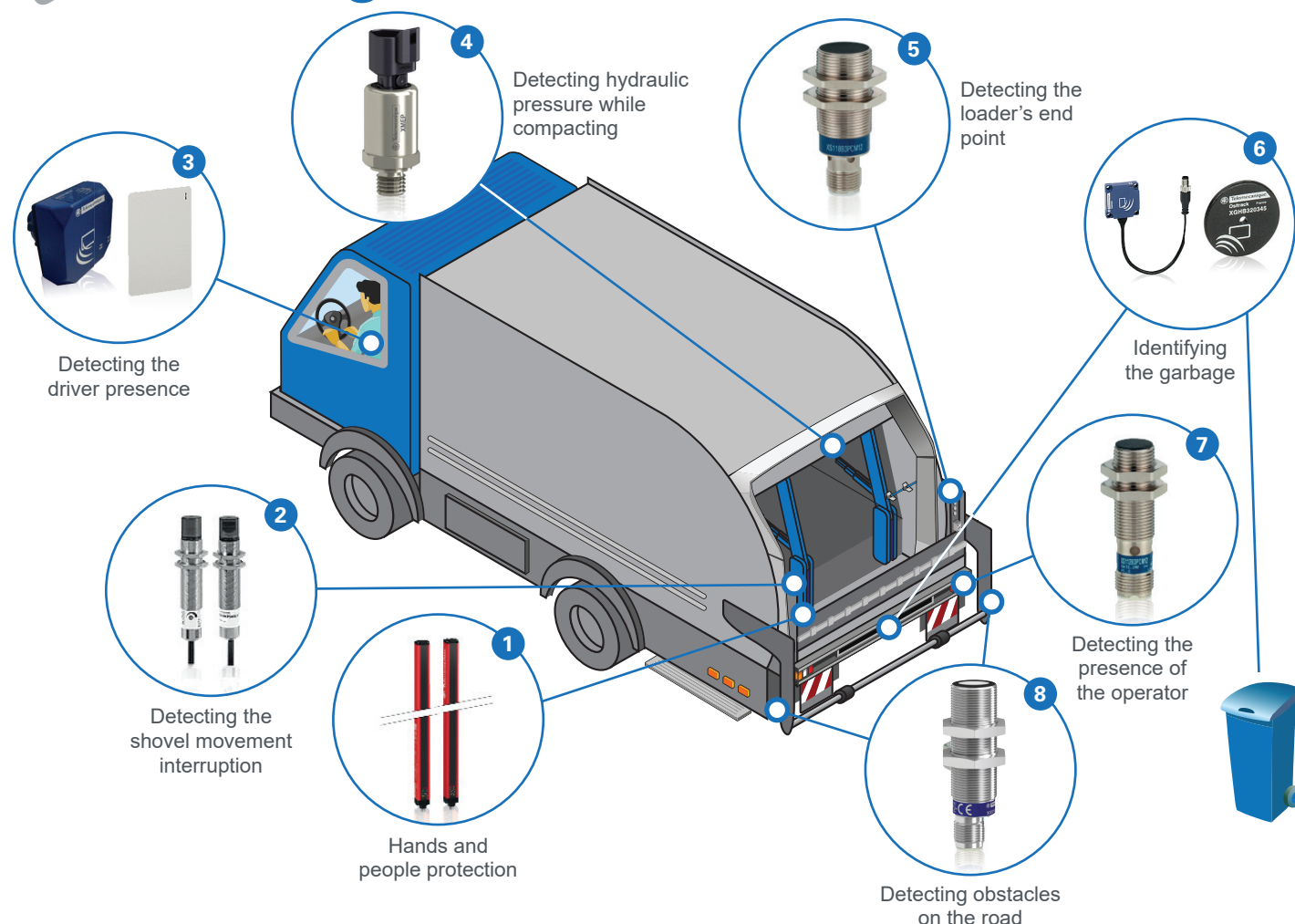
> Truck loading cranes



- | | | |
|---|---|--|
| 1 | XCMV or XCMD Limit Switch | Compact body and modular head allows easy mechanical adaptation. |
| 2 | XMEP / XMLR / ZMLP Pressure Sensors / Monitor | Compact and robust for reliable operation. |
| 3 | XS SIL2 Inductive Sensor | Compact, robust, and increases level of safety. |
| 4 | XCKD Limit Switch & XCKZ05 Accessory | Robust for increased resistance to the operating environment. |
| 5 | XS Inductive Sensor | Easy installation and adjustment. |



> Garbage Trucks



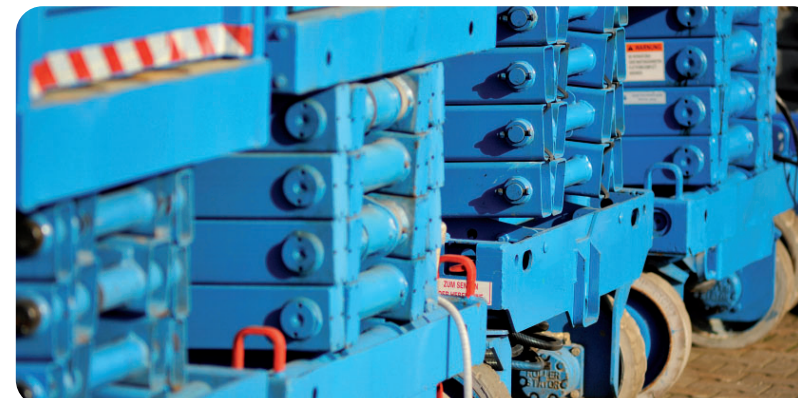
- | | | |
|---|---------------------------|--|
| 1 | XUSL Light Curtains | Compact and robust for reliable operation. |
| 2 | XU2S Photoelectric Sensor | High levels of reliability and quality as well as long life duration. |
| 3 | 6 XG RFID Systems | Open for a free choice of electronic tags and networks. |
| 4 | XMEP Pressure Transmitter | Easy installation and adjustment. |
| 5 | 7 XS Inductive Sensors | Simple set-up and maintenance. |
| 8 | XX Ultrasonic Sensors | E2-certified for Mobile Equipment with better immunity against EMC interference. |



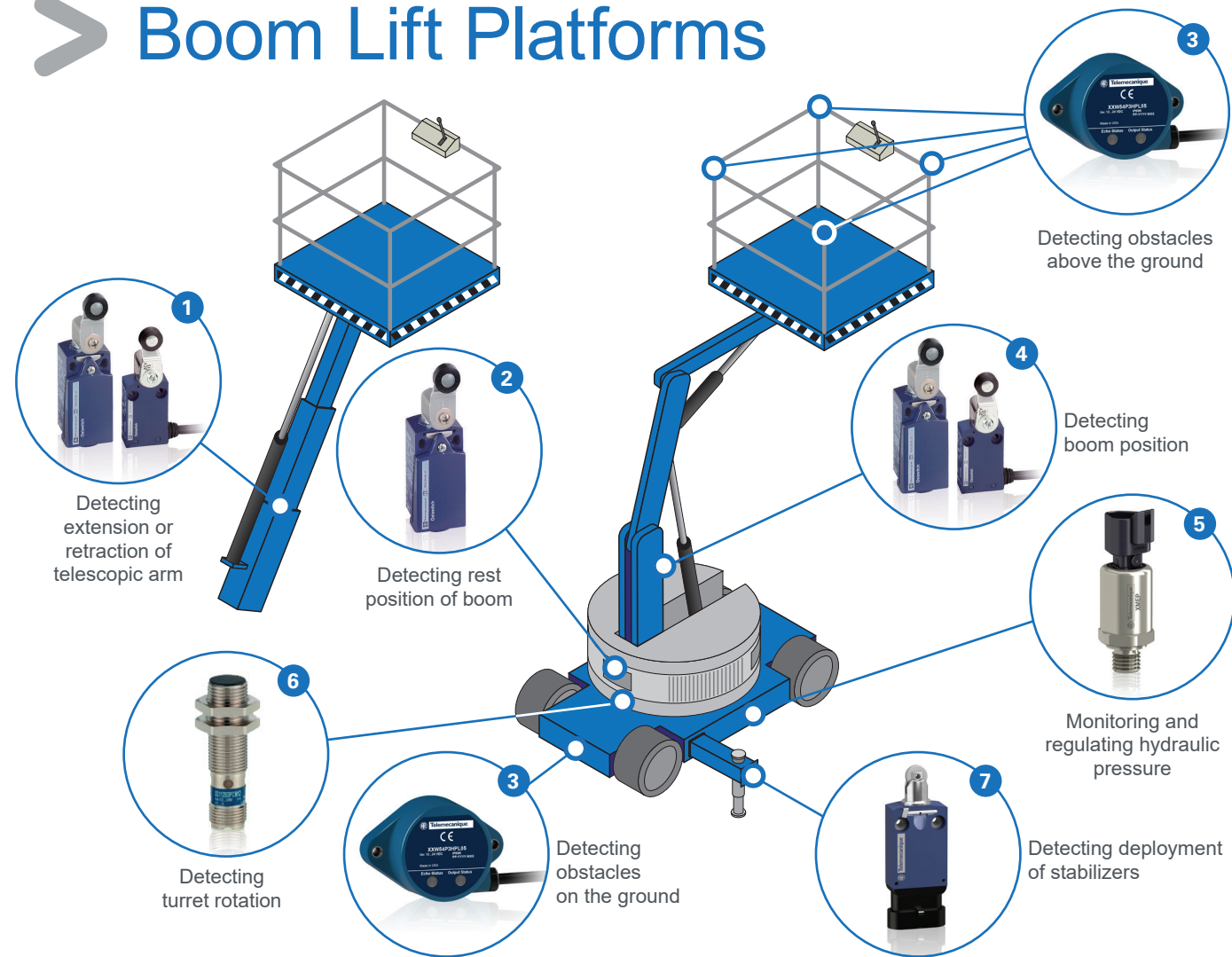
> Scissor Lift Platforms



- | | | |
|---|--------------------------------------|--|
| 1 | XCMD Limit Switch & XCMZ06 Accessory | Compact and multitrack mounting for detecting the various heights. |
| 2 | XMEP Pressure Sensor | Compact and robust for reliable operation. |
| 3 | XCMV or XCKP Limit Switch | Compact, providing easy mechanical adaptation. |
| 4 | XXW54 Wide Beam Ultrasonic Sensors | E-certified with better immunity against EMC interference and a larger beam width. |



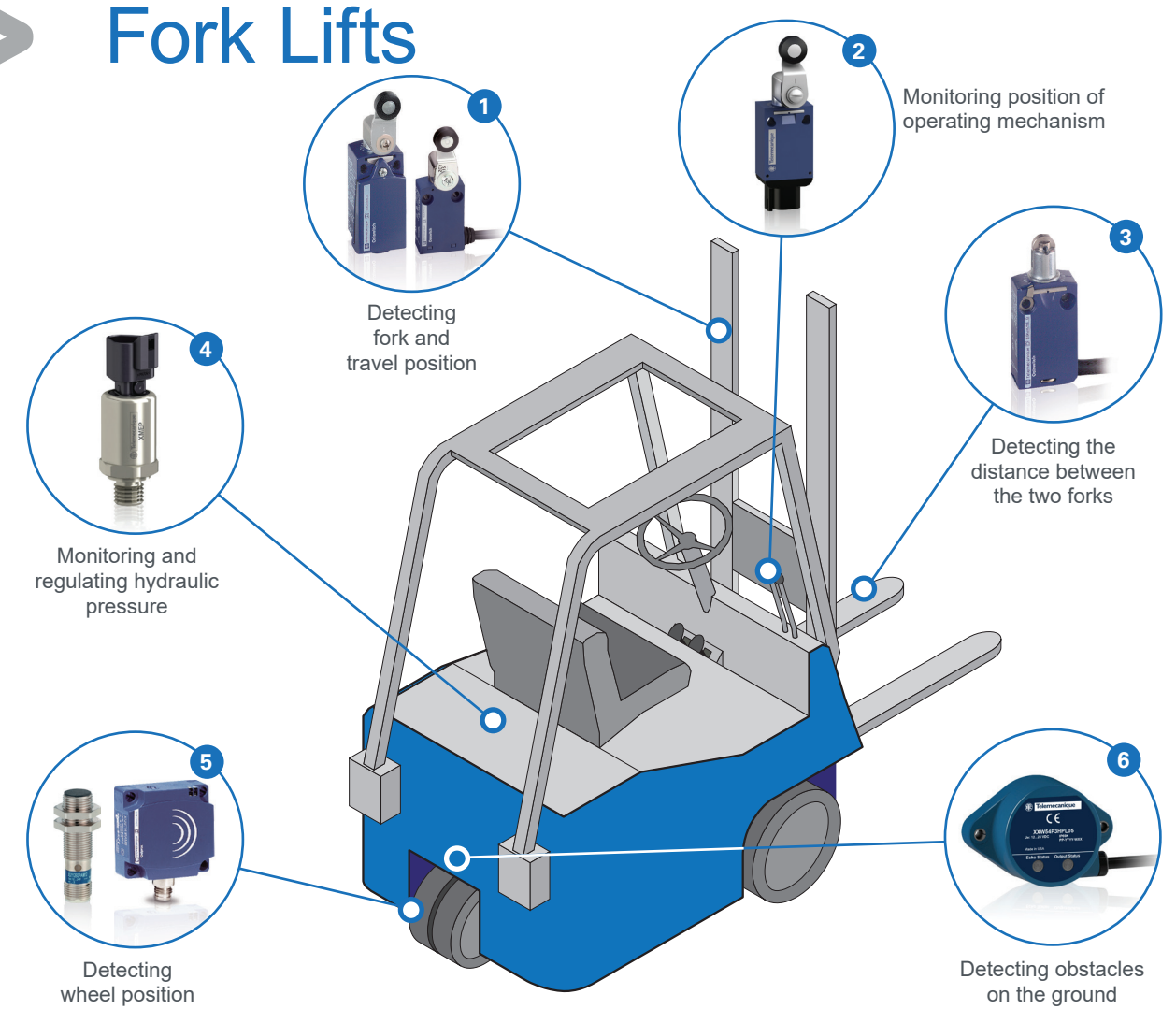
> Boom Lift Platforms



- 1 4 XCKP or XCMD Limit Switch Compact body and modular head allows easy mechanical adaptation.
- 2 XCKP Limit Switch Compact, providing easy mechanical adaptation.
- 3 XXW54 Wide Beam Ultrasonic Sensors E-certified with better immunity against EMC interference and a larger beam width.
- 5 XMEP Pressure Transmitter Compact and robust for reliable operation.
- 6 XS Inductive Sensors Easy installation and adjustment.
- 7 XCMD Limit Switch The most compact Limit Switch body on the market with integrated connectors.



> Fork Lifts



- 1 XCKP or XCMD Limit Switch Compact body and modular head allows easy mechanical adaptation.
- 2 XCMV Limit Switch The most compact Limit Switch body on the market with integrated connectors.
- 3 XCMD Limit Switch Compact body and a wide variety of heads for easier integration.
- 4 XMEP Pressure Sensor Compact and robust for reliable operation.
- 5 XS Inductive Sensor Easy installation and adjustment.
- 6 XXW54 Wide Beam Ultrasonic Sensors E-certified with better immunity against EMC interference and a larger beam width.



> Choose product best-suited for your application

Limit switches

	Contact	Connection				XCMD	AMP 4P Connector
	XCKD Metal NO+NC Snap	1/2 NPT	XCKD2110N12	XCKD2102N12	XCKD2118N12	Plunger	XCMD2110AM4 XCMD2510AM4
		M16	XCKD2110P16	XCKD2102P16	XCKD2118P16	Roller plunger	XCMD2102AM4 XCMD2502AM4
		Pg11	XCKD2110G11	XCKD2102G11	XCKD2118G11	Plastic roller lever	XCMD2115AM4 XCMD2515AM4
	XCKP Plastic NO+NC Snap	1/2 NPT	XCKP2110N12	XCKP2102N12	XCKP2118N12		Deutsch DT04 4P Connector
		M16	XCKP2110P16	XCKP2102P16	XCKP2118P16		
		Deutsch	XCKP2110D44	XCKP2102D44	XCKP2118D44		
	XCKT Plastic NO+NC Snap	1/2 NPT	XCKT2110N12	XCKT2102N12	XCKT2118N12		M12 Connector
		M16	XCKT2110P16	XCKT2102P16	XCKT2118P16		
		Pg11	XCKT2110G11	XCKT2102G11	XCKT2118G11		
	XCMD Metal NO+NC Snap NO+NC Slow	1 m	XCMD2110L1	XCMD2102L1	XCMD2115L1	Plunger	XCMV2110M12 XCMV2510M12
		1 m	XCMD2510L1	XCMD2502L1	XCMD2515L1	Roller plunger	XCMV2102M12 XCMV2502M12
						Plastic roller lever	XCMV2115M12 XCMV2515M12

Inductive sensors

	Sensing distance							
		Ø 12 mm	Ø 18 mm	15 x 32 x 8 mm	26 x 26 x 13 mm	40 x 40 x 15 mm	Ø 12 mm	Ø 18 mm
DC 3 wires NO	XS	4 mm	8 mm	5 mm	10 mm	15 mm	4 mm	8 mm
	PNP cable	XS112B3PAL2	XS118B3PAL2	XS7F1A1PAL2	XS7E1A1PAL2	XS7C1A1PAL2	XS112B3PCL2	XS118B3PCL2
	PNP connector	XS112B3PAM12	XS118B3PAM12	XS7F1A1PAL01M8	XS7E1A1PAM8	XS7C1A1PAM8	XS112B3PCM12	XS118B3PCM12
	NPN cable	XS112B3NAL2	XS118B3NAL2	XS7F1A1NAL2	XS7E1A1NAL2	XS7C1A1NAL2		
DC 3 wires NO	NPN connector	XS112B3NAM12	XS118B3NAM12	XS7F1A1NAL01M8	XS7E1A1NAM8	XS7C1A1NAM8		



Pressure transmitters

XMEP	Connector	Analogue output						
			0...60 bar	0...100 bar	0...250 bar	0...400 bar	0...600 bar	
	M12	0,5-4, 5V	XMEP060BD11F	XMEP100BD11F	XMEP250BD11F	XMEP400BD11F	XMEP600BD11F	
		4-20mA	XMEP060BD21F	XMEP100BD21F	XMEP250BD21F	XMEP400BD21F	XMEP600BD21F	
		0-10V	XMEP060BD71F	XMEP100BD71F	XMEP250BD71F	XMEP400BD71F	XMEP600BD71F	
	Deutsch DT04-3P	0,5-4, 5V	XMEP060BT11F	XMEP100BT11F	XMEP250BT11F	XMEP400BT11F	XMEP600BT11F	PNP 2 switching outputs ZMLPA2P0SH
		4-20mA	XMEP060BT21F	XMEP100BT21F	XMEP250BT21F	XMEP400BT21F	XMEP600BT21F	
		0-10V	XMEP060BT71F	XMEP100BT71F	XMEP250BT71F	XMEP400BT71F	XMEP600BT71F	
	AMP Superseal 1,5 3-pin	0,5-4, 5V	XMEP060BV11F	XMEP100BV11F	XMEP250BV11F	XMEP400BV11F	XMEP600BV11F	PNP Analogue 4...20mA + 1 switching output ZMLPA2P0SH
		4-20mA	XMEP060BV21F	XMEP100BV21F	XMEP250BV21F	XMEP400BV21F	XMEP600BV21F	
		0-10V	XMEP060BV71F	XMEP100BV71F	XMEP250BV71F	XMEP400BV71F	XMEP600BV71F	
XMLR	Outputs		0...100 bar	0...160 bar	0...250 bar	0...400 bar	0...600 bar	
			2 switching outputs	XMLR100M2P05	XMLR160M2P05	XMLR250M2P05	XMLR400M2P05	XMLR600M2P05
	Analogue 4...20mA + 1 switching output		XMLR100M1P05	XMLR160M1P05	XMLR250M1P05	XMLR400M1P05	XMLR600M1P05	

Ultrasonic Sensors

	Sensing Distance	Analogue Output	Digital output	Connection	Reference Number
	3m	0,5 - 4,5 V	PNP	0.15 cable + 6-pin Deutsch male connector	XXW54P3HPLO1DM6
				0.5M cable	XXW54P3HPL05
	1m Adjustable	n/a	PNP		XXS18S1PM12
		4-20mA	n/a	5-pin M12 male connector	XXS18S1AM12

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