

Sensor Solutions for Escalator and Elevator Applications



Telemecanique

Sensors

Simply easy!

> Escalator / Elevator-ready sensors

The line of sensor products making up the Telemecanique Sensors Escalator and Elevator Industry offer specifically address the necessary standards, constraints, and detection goals of Escalator and Elevator systems worldwide.

Compact and easy-to-install solutions

Space is at a premium in the lift industry, both on escalators and elevators. The Telemecanique Sensors product offering reflects our innovative focus not only in regard to the compact and lightweight design of our sensors, but in regard to their availability in a wide range of connector options.

Take them out of the box. Quickly install them. **Simply easy!**TM

Proven, dependable support

Founded over 90 years ago, Telemecanique Sensors specializes 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.

Focused on 3 core values - Simplicity, Proximity and Expertise - we have become experts in demanding applications, making our customers' lives **Simply easy!**TM

Easy to connect with the experts



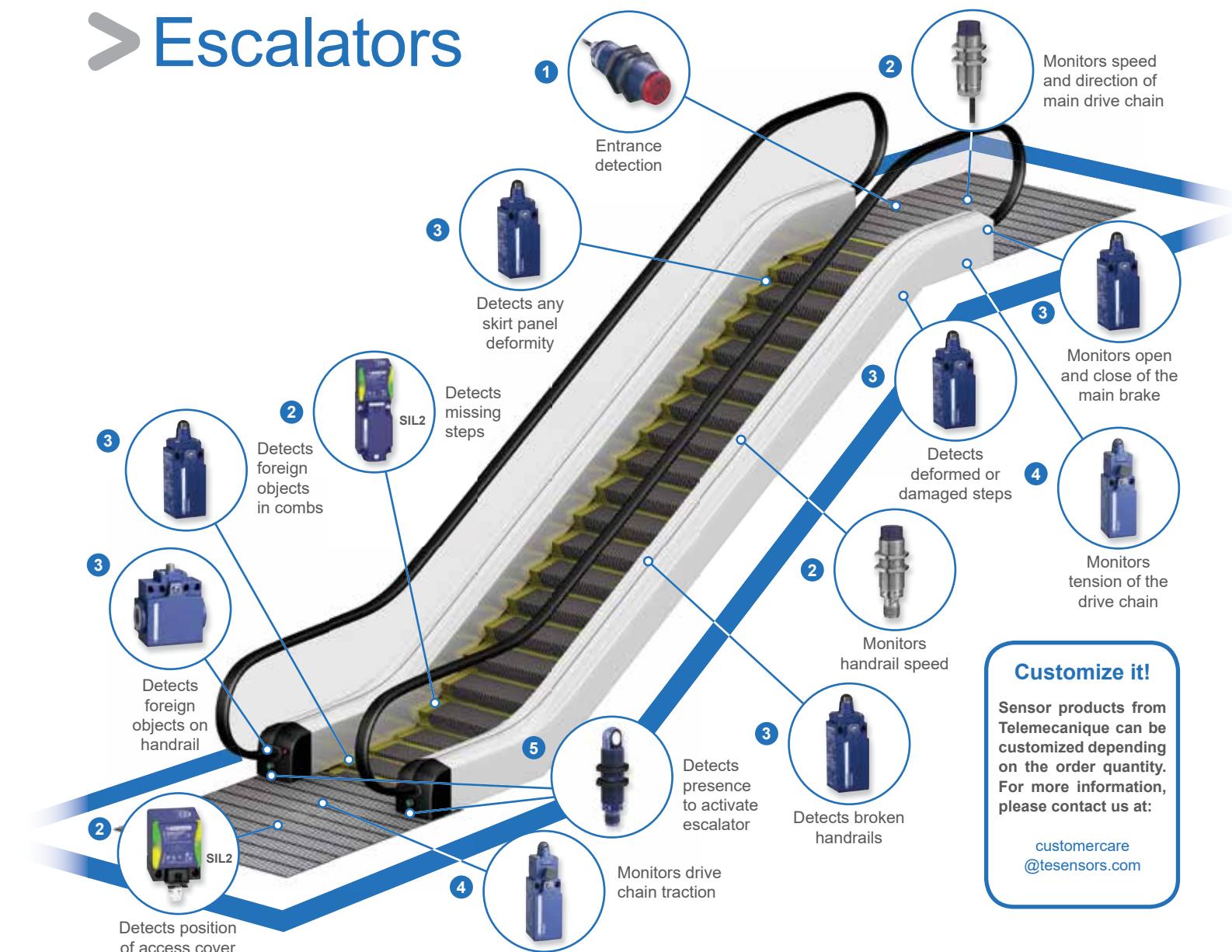
The Telemecanique Sensors team is available for pre and post sales support. We become an extension of your team and share our expertise with you.

Use the “Service & Support” menu of our website to quickly connect to your local Telemecanique Sensors representative.

www.tesensors.com



> Escalators



Customize it!

Sensor products from Telemecanique can be customized depending on the order quantity. For more information, please contact us at:

customercare
@tesensors.com

1 XU Photoelectric Sensor A full range of Photoelectric sensors in the main form factors from cylindrical to rectangular.

2 XS Inductive Sensor Inductive proximity sensors range for non-contact sensing of metal objects including a SIL2 certified version.

3 XCKN/XCNT Limit Switch Standard version of our market leading range of positive opening IEC Limit Switches. Many available heads. 1 or 2 cable entries.

4 XCNR IEC Limit Switch Manual reset version of our market leading range of positive IEC Limit Switches with many available heads.

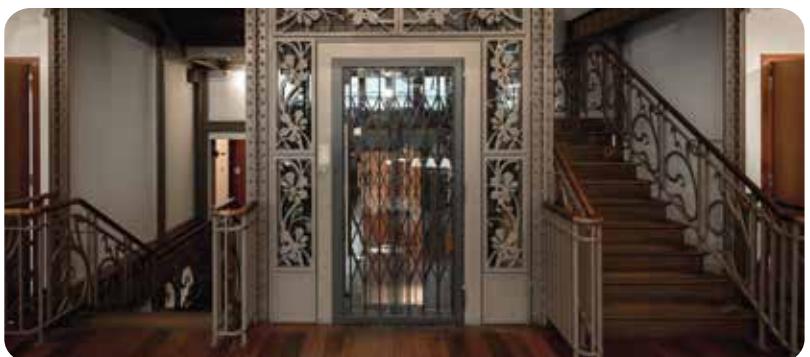
5 XX Ultrasonic Sensor A full range of Ultrasonic sensors for standard or wide area detection.



> Elevators



1 XCC Encoder	A range of innovative rotary encoders opened to field BUS communication.
2 XS Inductive Sensor	Inductive proximity sensors range for non-contact sensing of metal objects including a SIL2 certified version.
3 XIOT Cloud Connected Sensor	Connects your unreachable assets to the cloud, enabling real-time data and alarms on mobile devices.
4 XCS Safety Switch	Safety switches for controlling the safe opening and interlocking of guards and covers.
5 XU Photoelectric Sensor	A full range of Photoelectric sensors in the main form factors from cylindrical to rectangular.
6 XCK IEC Limit Switch	Standard version of our market leading range of IEC Limit Switches with plastic roller plungers.
7 XCNR IEC Limit Switch	Manual reset version of our market leading range of positive IEC Limit Switches with many available heads.
8 XG Compact RFID Sensor	Easily integrated panel mounting smart antenna for access control compatible with most RFID electronic tags.



> Choose the best product for your application

Inductive sensors



XS	Sensing distance	5 mm	8 mm	15-20 mm flush / 40 mm non flush	20 mm flush / 40 mm non flush
DC 3 wires NO	PNP cable	XS118BLPAL2	XS218BLPAL2	XS118BHPAL2	
	PNP connector	XS118BLPAM12	XS218BLPAM12	XS118BHPAM12	XS7C2A1PAM12
	NPN cable	XS118BLNAL2	XS218BLNAL2	XS118BHNAL2	
DC 4 wires NO+NC	PNP connector	XS118BLNAM12	XS218BLNAM12	XS118BHNAM12	XS7C2A1NAM12
					XS8C2A1PCM12 / XS8C2A4PCM12
					XS8C4A1PCP20 / XS8C4A4PCP20

Photoelectric sensors



XU	XUB	XUM	XUVR
DC 3 wires NO	Reflex	Thru Beam	Reflex
	PNP cable	XUB9APANL2	XUM9APCNL2
	PNP connector	XUB9APANM12	XUM2APCNL2R
Transmitter	NPN cable	XUB9ANANL2	XUM9APCNM8R
	NPN connector	XUB9ANANM12	XUM9ANCNL2R
	cable	XUB2AKSNL2T	XUM2ANCNM8R
	connector	XUB2AKSNM12T	XUM2AKCNL2T
			XUM9AKCNM8T

Ultrasonic sensors



1 meter sensing distance	XX	Straight	90° angled head
		XXS18P1PM12	XXA18P1PM12

Limit switches



XC	M20	XCKN2510P20	XCKN2502P20	XCKN2521P20	XCKN2506P20	XCKN2518P20	XCKN2545P20	XCKN2549P20	XCKN2539P20
	Pg11	XCKN2510G11	XCKN2502G11	XCKN2521G11	XCKN2506G11	XCKN2518G11	XCKN2545G11	XCKN2549G11	XCKN2539G11
XCNR	M20	XCNR2510P20	XCNR2502P20	XCNR2521P20		XCNR2518P20			
	Pg11	XCNR2510G11	XCNR2502G11	XCNR2521G11		XCNR2518G11			
XCKS	M20		XCKS502H29			XCKS531H29		XCKS539H29	
	Pg13		XCKS502			XCKS531		XCKS531	
	1/2NPT		XCKS502H7			XCKS531H7			
XCNT	M16	XCNT2510P16	XCNT2502P16	XCNT2521P16	XCNT2506P16	XCNT2518P16	XCNT2545P16	XCNT2549P16	XCNT2539P16
	Pg11	XCNT2510G11	XCNT2502G11	XCNT2521G11	XCNT2506G11	XCNT2518G11	XCNT2545G11	XCNT2549G11	XCNT2539G11

All switches above are NO+NC Slow

Encoders

XCC	Resolution	Ø 58 mm		Ø 90 mm	
		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

Safety Switches

XCSDMP		Operating zone (1) Sao: 8mm / Sar: 20mm				
		Safety Contacts (2)	NC + NO	2NC	NC + 2NO	2NC + NO
Without LED	Cable 2m (3)	XCSDMP5902	XCSDMP7902	XCSDMP5002	XCSDMP7002	
	M12 4P or 8P (4)	XCSDMP590L01M12	XCSDMP790L01M12	XCSDMP500L01M12	XCSDMP700L01M12	
With LED	Cable 2m (3)	XCSDMP5912		XCSDMP5012	XCSDMP7012	
	M12 4P or 8P (4)	XCSDMP591L01M12	XCSDMP791L01M12	XCSDMP501L01M12	XCSDMP701L01M12	

(1) Sao: Assured operating distance; Sar: Assured tripping distance
 (2) Schematic diagram shown represents the contact states while the magnet is in front of the switch
 (3) For switches with other cable lengths, replace the last number in the reference by 5 for 5 meters or 10 for 10 meters.
 Ex. XCSDMC5905
 (4) M12 4P for XCSDMP59/79 (2 contacts), M12 8P for XCSDMP50/70 (3 contacts)



XCSRC



XCSRC10M12: SINGLE Safety RFID contactless switch (reader + factory paired transponder) • Unique pairing • M12

XCSRC11AM12: STANDALONE Safety RFID contactless switch (reader + factory paired transponder) • EDM +
 Auto start • Unique pairing • M12

XCSRC12M12: SERIES Safety RFID contactless switch (reader + factory paired transponder) • Unique pairing • M12

Pressure Transmitters (for Hydraulic drive Elevator systems)

XMLP	Pressure range (bar) (1)	0...10	0...16	0...25	0...60	0...100	0...250
	Fluids controlled	Hydraulic oils					
	Voltage limits (V)	7...33 V DC for 4...20mA, 12...33 V DC for 0...10 V					
	Dimensions (mm) Ø x L	26 x 38 (M12), 26 x 60.5 (EN175301-803-A)					
	Fluid connections (2)	G 1/4 A (male)					
	Electrical connections (3)	connector M12 4-pins, EN 175301-803-A					
	Output type (4)	4...20mA, technique 2-wires, 0...10V, technique 3-wires					
	Analogue output 4...20mA	M12 4-pins EN175301-803-A	XMLP010BD21F XMLP010BC21F	XMLP016BD21F XMLP016BC21F	XMLP025BD21F XMLP025BC21F	XMLP060BD21F XMLP060BC21F	XMLP100BD21F XMLP100BC21F
(1) Also available with psi range (2) Also available with 1/4"-18NPT male or 7/16-20UNF female (3) Also available with 3-pins packard connector (4) Also available with 0.5...4.5 V and 0...10 V ratiometric output. Available in bulk packs for selling in lots of 25 pcs. Add Q suffix to the reference. Ex: XMLP001GD21F becomes XMLP001GD21FQ							

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Pressure Switches (for Hydraulic drive Elevator systems)

XMLD-Fixed differential, dual stage, detection at each threshold	10	20	35	70	160	300
Setting range (bar)	2nd stage switching point (PB2)	1.2...10	2.14...20	4.4...35	9.4...70	16.5...160
	1st stage switching point (PB1)	0.52...9.32	0.9...18.76	1.9...32.5	6.6...67.2	10.5...154
	Spread between 2 stages (PB2-PB1)	0.68...5.8	1.24...9.55	2.5...20.4	2.8...46	6...83
Without setting scale 2 C/O single-pole pole, snap action contacts (1 per stage)	XMLD010B1S12	XMLD020B1S12	XMLD035B1S12	XMLD070D1S12	XMLD160D1S12	XMLD300D1S12



Compact RFID Sensors

XG RFID Stations 13.56 MHz, Fixing Ø 22	Compact station for panel fixing (1)	Compact station for panel fixing with indicator light (1)
Type of associated tag	ISO 15693 to ISO 14443 standard tags. Automatic detection of the type tag.	
Display	For informing the operator	2 multicolor LEDs (7 selectable colors) driven by Modbus requests
	For the communication	1 dual color LED (Dialog station/tag) 1 dual color LED (Modbus network activity)
Item numbers	XGCS490B201	XGCS49LB201
		

Cloud Connected Sensors

XIOT Cloud Connected Sensors - 3 options to choose from			
Description	Transmitter only	Prepaid 5-year access to cloud	Subscription services (1)
> 1 standalone transmitter	✓	✓	✓
> Activation magnet	---	✓	---
> Instruction sheet	---	✓	✓
> 5-year subscription to Sigfox LPWAN (2)	---	✓	---
> Web interface to configure and display data	---	✓	✓
> Smartphone apps for alert notifications (iOS and Android)	---	✓	✓
> Connection to Telemecanique Sensors secure servers via external SCADA system for data processing	---	---	✓

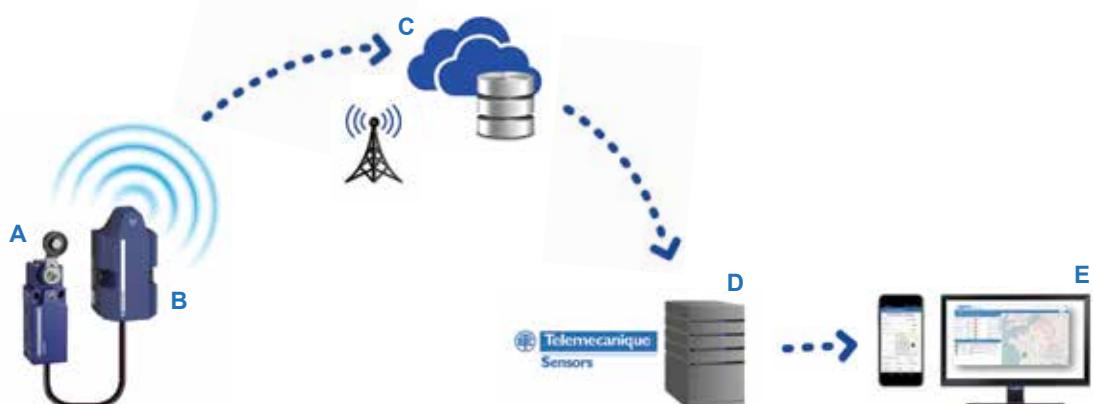
(1) Pricing, terms and conditions available at: <https://godigital.schneider-electric.com/smp/home/home.page>
(2) LPWAN: Low power wide area network

The XIOT communication offer from Telemecanique Sensors (2) is based on LPWAN (low power wide area network) technology, operated by Sigfox.

The Sigfox network covers 32 countries and is already very extensive in Europe. It is also being rapidly deployed in the US and Asia-Pacific. It uses antennas with a range of around 50 km. The map on the Sigfox website shows exactly which areas are covered by the network (see <http://sigfox.com/en/coverage>).

How it works

When the contacts on a sensor installed on your site change state (A), the transmitter (B) sends a message to the IoT network (LPWAN) (C), which is then routed to our secure servers (D). This message is then delivered to one or more recipients as an alert on PC, tablet, or smartphone (E).



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