

Sensor Solutions for Railway Applications



Telemecanique

Sensors

Simply easy!

> Railway-ready sensors

The line of sensor products that make up the Telemecanique Sensors Railway Industry offer specifically address the necessary standards, constraints, and detection goals of railroad systems all over the world.

Increased safety according to the industry's EN455 standard

The Telemecanique Sensors products for the railway industry meet the most stringent standards in regard to reaction and resistance to fire:

- Compliant with the new fire behavior of the materials and components regulations
- Compliant with the HL2/R26 severity level of the EN 45545 standard
- Integrated with cables that are certified EN 50306 and EN 50264



Unparalleled, robust sensor functionality

Consistent with the reputation built by Telemecanique Sensors, the products they offer for the railway industry are benchmarks in regard to their performance, reliability, and efficiency.

This line of railway industry sensors will:

- Resist shocks and vibrations according to the EN 61373 standard
- Resist a wide temperature range from -13°F to 158°F (-25°C to 70°C)
- Endure up to several million mechanical and electrical operations

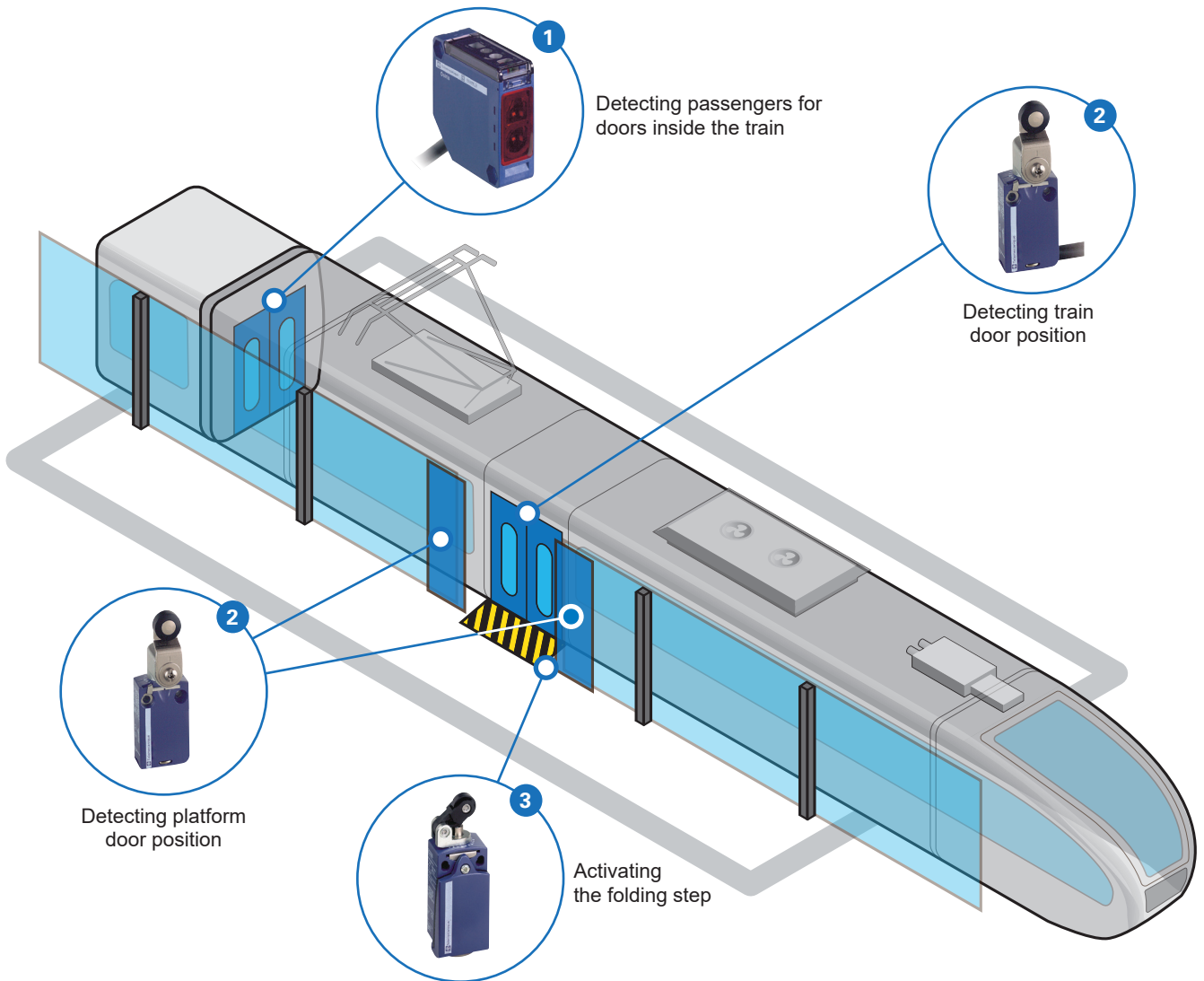
Compact and easy-to-install solutions

Space is at a premium in the railway industry, both on the trains themselves and in the stations that service them. The Telemecanique Sensors product offering reflects our innovative focus not only in regard to making our products compact and lighter to fit the majority of railway application designs, but in regard to making our sensors adaptable by offering a wide range of connectors.

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



> Automatic doors



1 XUK9 Photoelectric Sensor

Compact photoelectric sensor

2 XCMD or XCMN Limit Switch

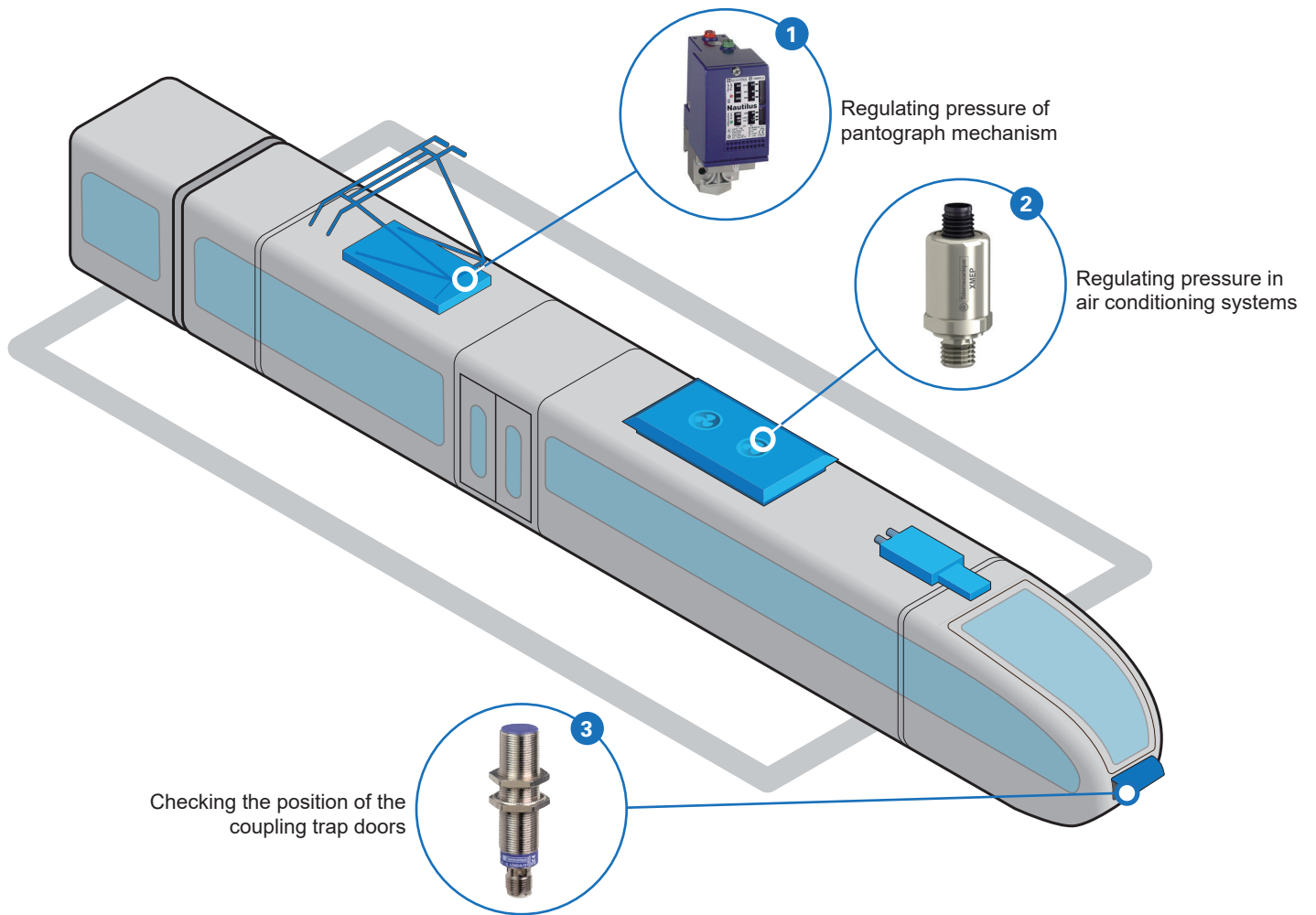
Miniature limit switch

3 XCKD Limit Switch

Universal limit switch with roller lever plunger



> Pantograph, air conditioning and coupling systems



1 XMLC Pressure Sensor

Electromechanical pressure sensor with pre-adjusted pressure threshold

2 XMEP Pressure Sensor

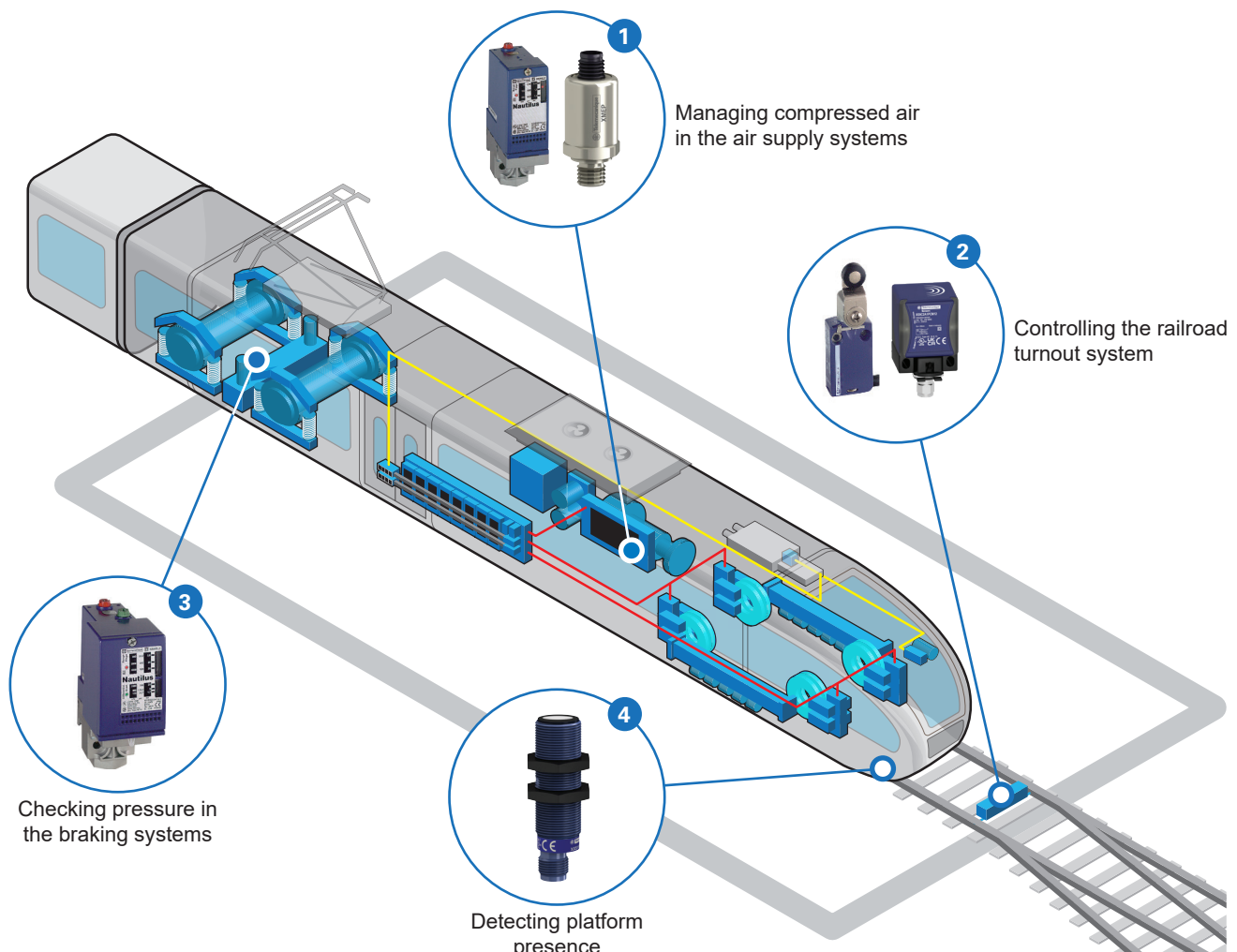
Compact electronic pressure sensor for HVAC

3 XS618 Inductive Sensor

Inductive proximity sensor



> Air supply and braking system



















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|---|-----------------------------------|--|
| 1 | XMLA/B or XMEP Pressure Sensor | Electromechanical or electronic pressure sensor |
| 2 | XCMD Limit Switch or XS Inductive | Limit switch or inductive proximity sensor |
| 3 | XMLA/B or C Pressure Sensor | Electromechanical pressure sensor with pre-adjusted pressure threshold |
| 4 | XX Ultrasonic Sensor | Software configurable and resistant to electromagnetic interference |



> Choose the product best-suited for your application

The following tables present a small part of our offer for railway applications. To learn more, visit our website www.tesensors.com or contact your local sales agency for adapted products.

Limit switches

	Contacts composition		Roller plunger	Roller lever	Vertical or horizontal action roller lever plunger
Miniature metal body with 1m cable halogen free	NO+NC snap action				
Miniature metal body with 1m cable halogen free	NO+NO+NC+NC snap contacts				
Miniature plastic body with 1m cable halogen free	NO+NC snap action				
Classic metal body, EN50047 format, ISO M16x1.5 output	NO+NC snap action				
Pg11 x 3 entries, metal body	NO+NC snap action				

Pressure sensors

Electromechanical pressure switches, 2 thresholds and 1 contact 145psi (10 bar), (with special eyelet terminal lug and dedicated factory setting on request)



XMLB010A2S11

Electromechanical pressure switches, 2 thresholds and 2 separate contacts 145psi (10 bar), (with special eyelet terminal lug and dedicated factory setting on request)



XMLC010B2S11

Electronic pressure transmitters 10 ... 60 bar fluid entry 7/16 - 20 UNF



XMEP060BD71F

Inductive sensors

Cylindrical M18 inductive proximity sensor, 24 ... 240 VAC/DC



XS618B1MBL20

Cubic inductive proximity sensor with M12 connector, 12 ... 48 VDC



XS9C2A1PCM12

Photoelectric sensors

8m Reflex polarized photoelectric sensor, 24 ... 240 VAC/DC, with a reflector



XUK9ARCNT



XUZC50

Ultrasonic sensors

Ø18 Ultrasonic sensor, 1m sensing distance, Analog 4...20 mA output



XXS18P1AM12

> 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!”

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

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