



XENSITY®

Indoor dual-tech intrusion system

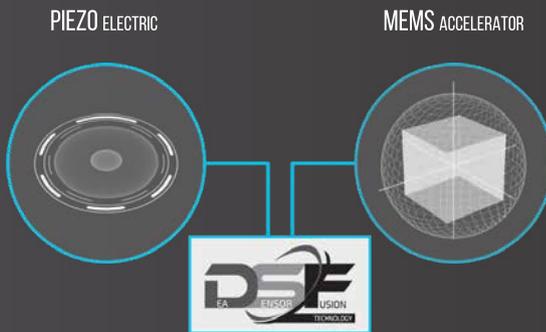
XENSITY is an intrusion detection system which has moved into the world of indoor security – houses, offices, banks and businesses – the same technologies developed by DEA Security for the outdoor perimeter protection of high risk compounds such as airports and power plants. Among those technologies we can mention the **DEA Sensor Fusion (DSF)** technology, the **sensor self-test**, the **centralization** of the alarm signals and the **remote management** of the system. Thanks to a new interface board, XENSITY can now directly manage **SISMA CA/CAPF systems for the protection of flooring**.

Currently XENSITY line is composed of three models of detector: **SN-XS-FDRx(M)** to **protect windows/doors** against shock, breakthrough and, for the version with magnet, opening events; **MD-XS-GR**, to **protect burglar bars** against cutting and breakthrough events; **SN-XS-FWL**, to **protect walls and armoured structures** against break, breakthrough and drilling events.

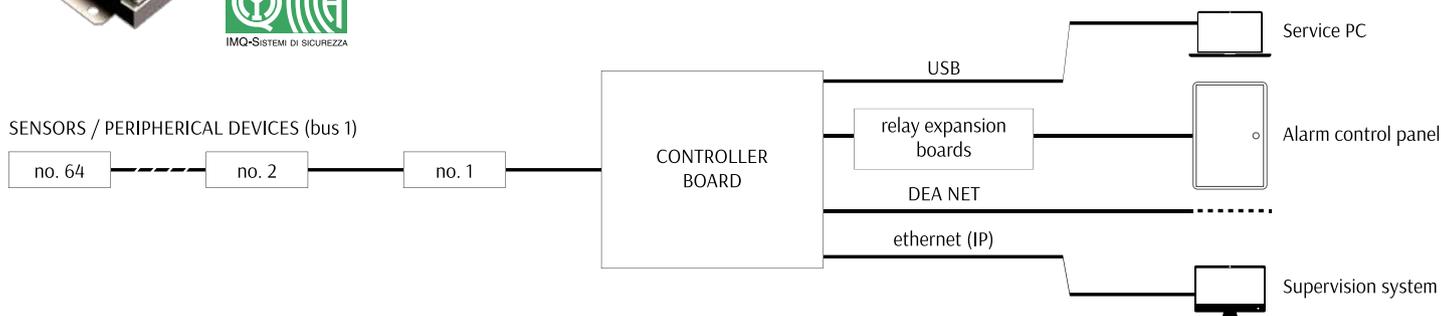
XENSITY detectors are all “addressable”, making it possible to **pinpoint an alarm**; they contain a piezoceramic transducer, which is a virtually inexhaustible device offering both superior detection capability and very high tolerance towards environmental disturbances.

In 2020 the models dedicated to the protection of windows, doors and walls were equipped with DSF technology (DEA's patent) which combines a **PIEZO** transducer with a **MEMS** accelerometer.

The signals acquired by the two sensitive elements are integrated and analysed using **adaptive intelligence algorithms**: such algorithms enhance the key points of both of the technologies to get the maximum reliability in any application.



The detectors communicate with the **BR-XS-CTRL32** and **BR-XS-CTRL64** controller boards: the most powerful of them can manage **fino a 64 up to 64 sensors on a single communication bus**. **These boards allow you to easily configure and monitor** even the most complex systems: from a locally connected PC or from remote station you can calibrate and program sensors, view their status and monitor their operating parameters.





DEA SENSOR FUSION TECHNOLOGY

The detectors contain the electronics to process the signals and to actively communicate with the controller board. The latest generation of sensors for doors, windows and walls are equipped with the new DSF dual-tech technology (PIEZO/MEMS).

KEY BENEFITS



SPECIALIZED DETECTORS

XENSITY can be employed for the protection of different types of structure including doors, windows, security bars, glazed surfaces, walls, safes and, thanks to the integration with SISMA CA/CA PF systems, also indoor and outdoor flooring.



MAGNETIC ANTI-MASKING

It detects the attempts to tamper with the anti-opening sensor by exposing it to magnetic fields.



IP NATIVE SUPPORT

The controller board is equipped with an Ethernet interface for the connection to any TCP/IP network. Such feature allows a remote management of the system or the integration with 3rd party systems and equipment, such as PSIM and VMS software.



SELF-TEST FUNCTION

A special self-test function constantly checks the functioning of each sensor promptly signaling potential faults or anomalies.



OPENING PROTECTION

Instead of using a common reed contact, SN-XS-FDRxM sensors detect the opening of windows/doors by means of an electronic sensor



SIMPLIFIED MANAGEMENT

The system is easy to be managed even in case of big and complex installations, such as installations composed of several alarm points on different floors or areas of a building.



THERMAL TAMPER DETECTION DEVICE

It monitors the sensor temperature gradient to detect sudden and anomalous thermal excursions.



DIFFERENTIATED SIGNALS

The analysis units use sophisticated algorithms able to recognize the different types of attack to the protected structure: opening, shock/break, breakthrough, drilling, sensor removal and thermal tamper.



INTEGRATION WITH THIRD-PARTY DEVICES

The system can manage the signals coming from most third-party devices.



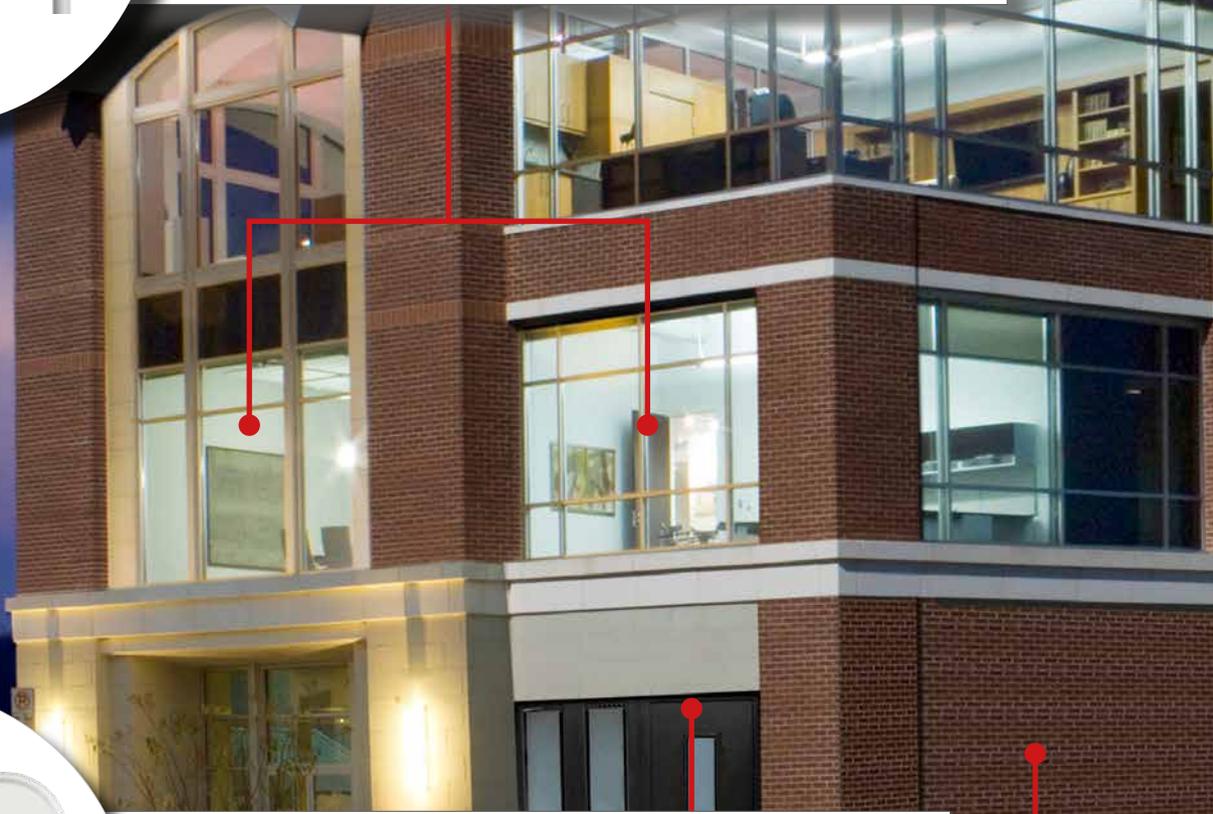
MADE IN ITALY

All the detectors and the analysis boards are designed, produced and assembled in Italy, at DEA Security's factory, using very high quality components and materials.



BR-XS-PU.

Peripheral interface board which, connected to the specific SERIE A03 PRO sensor, protects glazed surfaces against break, breakthrough and drilling events. Easy and quick to install, the module is compatible with all types of glass, including single layer tempered glass and laminated shatterproof or armoured glass.



SN-XS-FDRx(M).

Equipped with DSF technology, this sensor offers a Point ID protection of windows and doors and related glazed surfaces against shock, breakthrough, drilling and opening events. For the model equipped with magnet, the opening detection occurs by means of an electronic sensor having an anti-masking magnetic function. The detector can be installed in any plane and orientation and manages two triple-balanced lines.



IMQ-SISTEMI DI SICUREZZA

MD-XS-GR.

Addressable detection module for the protection of burglar bars against break, breakthrough and cutting. The sensor, which has been designed for outdoor use, is coupled with an analysis board able to discriminate intrusion attempts from nuisance alarms and thermal expansions.



SN-XS-FWL.

Equipped with DSF technology, this sensor offers a Point ID protection of all types of walls against break, breakthrough and drilling events. It can be installed on different types of walls, including brick, tuff and armoured concrete walls. Able to operate in any plane and orientation, it detects the thermal and magnetic tamper, the removal of the sensor and the opening of the case. It manages two triple-balanced lines.



IMQ-SISTEMI DI SICUREZZA

NEWS

INTEGRATION WITH SISMA CA/PF



The new interface board **BR-XS-SMCAPU** integrates **SISMA CA** underfloor system and **SISMA CA PF** system for raised floors into XENSITY ecosystem.

Thanks to this additional feature, XENSITY **has become the most completed perimeter intrusion system for buildings in the industry**, since it is able to protect any type of access and all the indoor and outdoor floors, including raised floors.

The upgraded version of the XENSITY service software, which recognizes the new interface board, enables you to select the type of sensor connected (CA or CA PF) and to regulate its sensitivity and security level. **These operations can be performed also from remote station via an IP connection.**



BR-XS-SMCAPU

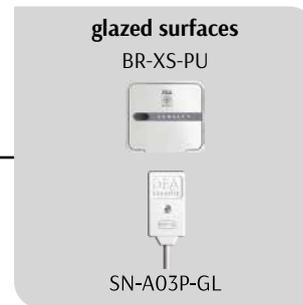
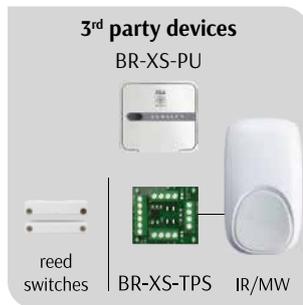
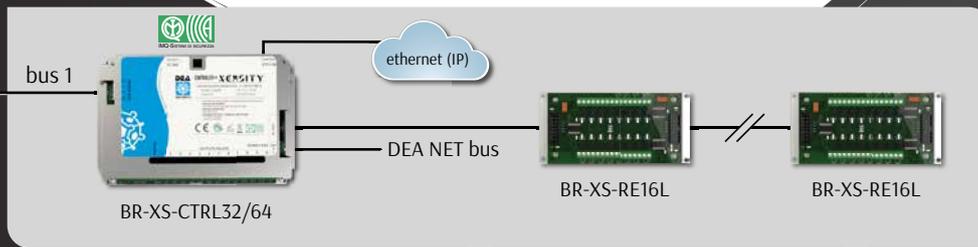
SERVICE SOFTWARE



The upper part of the interface displays all the information concerning the Controller board, such as the **input and output status** and the **power supply** and **bus** parameters. The central area displays a schematic view – tree or matrix – of the **peripheral devices connected to the Controller**: sensors, interfaces, relay expansion boards. The matrix view (see figure) provides a **general map of the field alarms**, displaying them through icons: a mouse double-click on an icon opens the sensor configuration screen.



The sensor window offers several tools and information for the calibration, programming and test of each detector. With a mouse click you can **activate/deactivate each specific alarm** (weak impacts, strong impacts, continuous vibrations, balanced lines, magnetic sensor and tamper) or **change the behaviour of the status LED** on the sensor. With a mouse click you can also **set the sensitivity** and the **security level** as well as manually start a sensor **self-test**.



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