



SERIE A03

seismic sensors

SERIE A03 is an indoor intrusion detection system for the protection of **windows, doors, glass doors/windows, metal grates, walls, ceilings and safes** against shock, breakthrough and opening. The system is composed of a wide range of seismic sensors and the relevant processing boards.

Specialized. Each sensor model is dedicated to specific applications, where it provides the highest performance.

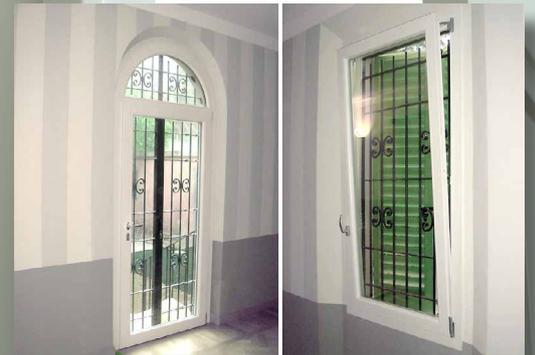
Sensitive. SERIE A03 sensors can perceive the lightest shocks. The models employed for applications requiring very high sensitivity to shocks, such as the protection of windows, doors and walls, are featured by a piezodynamic technology: the latter combines a piezoceramic transducer with an inertial mass to mechanically amplify the vibrations received by the sensors.

Reliable. For over 20 years on the market, SERIE A03 system has proved to be a very reliable system as far as performance and operation life are concerned.

Smart. SERIE A03 processing boards analyse the signals perceived by the sensors in a very accurate way, discriminating the different types of attack to the protected structure from the ones generated by environmental nuisances.

Maintenance free. SERIE A03 sensors contain a solid state passive transducer, therefore they are not subject to electric failure and they do not need any scheduled maintenance. Such a feature makes them suitable for particular applications, such as the protection of skylights and walls against which shelves and other furniture are installed.

Made in Italy. SERIE A03 sensors and processing boards are assembled and produced at Dea Security's factory in Italy, using components and materials selected according to very strict specifications. Each single product is also subjected to accurate tests.



The sensors

SERIE A03 sensors perceive the vibrations generated by shock or breakthrough events against the structure to be protected.

The sensors employ a piezoceramic transducer which produces electric signals if subjected to vibrations. To increase their sensitivity, some models have been provided with a piezodynamic technology which combines the piezoceramic transducer with an inertial mass to amplify the vibrations received by the sensors.

- **A03B/AS and A03B/MAS-C** for windows and doors (piezodynamic).

To be installed on window and door frames, one sensor can protect the whole structure, including the glass (if any), from shock and breakthrough attempts.

A03B/MAS-C sensor has the same features as **A03B/AS** model, but it is also provided with magnetic contact for the protection of the structure against opening.

- **A03GR** for metal grates (piezoceramic)

It protects metal grates, railings and metal doors against shock and breakthrough. Designed for outdoor use, the sensor is equipped with a metal housing and the relevant connection cable is protected by flexible metal sheath.

- **A03AS for walls** (piezodynamic)

Suitable for the protection of walls, safes, reinforced cabinets and other structures which require very high detection capability.

- **A03 for glazed surfaces** (piezoceramic)

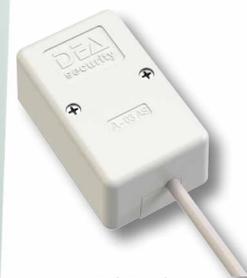
Suitable for the protection of glazed surfaces, such as shop windows, it detects the break of the glass and its drilling with diamond core bits. Very easy and quick to install, the sensor can be fixed to the glass by means of the double-sided tape supplied with it.



A03B/AS e A03B/MAS-C



A03GR



A03AS



A03

The processing boards

The electronic processing boards amplify and process the signals coming from the sensors, discriminating the environmental nuisances and the different intrusions techniques. For each type of alarm – light shocks, strong shocks and continuous vibrations – you can set custom sensitivity levels and detection thresholds. Each processing board manages up to 8 piezoceramic sensors or 15 piezodynamic sensors.

The processing boards can be connected to any type of control panel by means of dry contacts.

■ SE04/N (digital)

This board can be connected to all SERIE A03 sensors and can discriminate the signals produced by three different intrusion techniques: shock (repeated light shocks), breakthrough (very strong shock), drilling with diamond core bit or other electric device (continuous vibrations). Three trimmers allow to regulate the detection capability for each type of signal, while the features of the board (event counting, reset time, buzzer and a thermal expansion filter) are carried out through two dip switches. SE04/N is provided with two balanced lines, one for tamper and the other for opening.

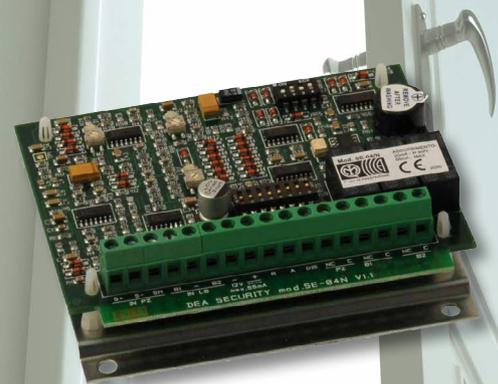
If connected to **A03B/MAS-C** sensor, SE04/N complies with *IMQ-1st level* of alarm for the protection of windows and doors against shock and breakthrough.

■ SE03/N (digital)

Same analysis capability and technical features as SE04/N, but provided with one balanced line and no thermal expansion filter. This board can be connected to **A03, A03GR, A03AS and A03B/AS** sensors.

■ SE02/N (analog)

Analog processing board provided with an NC tamper line and two trimmers to regulate the detection capability and the event counting. A typical application is the protection of safes and CCTV cabinets.



SE04/N



SE03/N



SE02/N



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