



# SERIE SPC/SPR

## shock sensors

**SERIE SPC/SPR** is a line of indoor intrusion detection sensors for the protection of **windows, doors and glazed surfaces** against shock, breaking through and opening.

Evolution of the proven SERIE A03 detectors and electronic boards, SPC/SPR sensors do not need any separate electronics since **they are provided with built-in analyzer**.

**Point ID.** Each sensor can be independently configured and individually identified.

**Sensitive.** The 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.

**Smart.** The built-in electronics analyses the signals perceived by the sensors, discriminating the different types of attacks to the protected structure.

**Reliable.** These sensors have proved to be very reliable as far as performance, immunity and operation life are concerned.

**Made in Italy.** SERIE SPC/SPR sensors are designed 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.



## SPC01, the highest level of performance

Designed without compromise, **SPC01** sensor offers excellent performance and superior detection capability. The piezodynamic transducer, **combined with a microcontroller**, provides very high sensitivity, accurate detection and easy calibration.

Thanks to its sophisticated detection algorithms, SPC01 discriminates the different types of attacks to the structure: shock, breaking through and **drilling with diamond core bit or other electrical tool**. The sensitivity levels can be calibrated via trimmer while the detector features – event counting, reset time and thermal expansion filter – can be configured through a dip switch.

SPC01 is provided with integrated alarm memory and detects magnetic tamper, opening of the housing and removal of the sensor. **SPC01M** version also **includes a magnetic contact** to signal the opening of the structure.

## SPC02, simple but effective

SPC02 is provided with the same technology as SPC01 model, but the piezodynamic transducer is combined with an **analog circuit which integrates the alarm memory feature**. The sensor detects shock, breaking through and opening of the housing.

The sensitivity and the event counting can be adjusted using analog trimmers: the adjustment is eased by three LEDs which signal alarms, alarm memory and detected events.

**SPC02M** version includes a **magnetic contact** to signal the opening of the structure.



## SPC03, glass break detection

Provided with a piezoceramic transducer, alarm memory and anti-removal device, **SPC03** is the most reliable shock sensor for the protection of glazed surfaces. Thanks to the **digital sensitivity adjustment on four levels**, this sensor can be applied on different types of glass, including multi-layer and reinforced glass.

**Very easy and quick to install**, the sensor is mounted to the glass by means of the double-sided tape supplied with it. The intentional or accidental detachment of the sensor from the glass is immediately detected as **tamper alarm**.

SPC03 model provides recovery after an alarm by switching the power supply off, whilst **SPC03E** model has automatic recovery.

## SPR01, efficiency in wireless systems

SPR01 is a seismic sensor which matches Dea Security's piezodynamic technology with wireless intrusion detection systems. Powered by two lithium batteries, which provide it with a long operation life, this sensor has been specifically designed for being combined with a radio transmitter: it is ideal for integration into wireless intrusion systems.

Sensitivity can be adjusted via trimmer and the event counting can be programmed through a dip switch. Two status LEDs, one for alarm and the other for shock detection, can be deactivated to maximize the duration of the batteries.

**SPR01M** version includes a **magnetic contact** to signal the opening of the structure.





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