SPC PRO

Indoor dual-tech shock detectors

SPC PRO is a range of stand-alone indoor intrusion detectors which employ the **DEA Sensor Fusion** (DSF) detection technology to **protect doors**, **windows** and **walls** against break-in attempts. Depending on the model, SPC PRO detectors are employed on **doors**, **windows**, **skylights**, **glazed surfaces** and different types of **walls**, including masonry and reinforced concrete walls. The detectors employ a **PIEZO** transducer and a **MEMS** accelerometer to detect impacts and vibrations generated by attempts of forcing, breaking through or drilling the protected structure.

DEA SENSOR FUSION TECHNOLOGY

The new DSF technology developed by DEA Security combines, in a single seismic sensor, all the advantages of a PIEZO transducer with the benefits of a MEMS based accelerometer. The outcome is a detector capable of the highest performance.

SMART ANALYSIS

The powerful CPU inside the detectors execute sophisticated detection algorithms to discriminate the different types of attack to the protected structure: burglary, breaking, breaking through, cutting and drilling.

SIMPLIFIED CALIBRATIONS

In most cases, to calibrate the sensor you simply need to select one of the preset configurations suitable for the type of structure to protect.

NO POSITIONING CONSTRAINTS

All SPC PRO sensors work perfectly in any plane and orientation, offering the maximum installation flexibility.

HIGH-PERFORMANCE DIGITAL FILTERS

All SPC PRO detectors employ a microcontroller which implements a full set of DSP instructions used for signal processing and digital filtering which guarantee high performance and power efficiency.

MADE IN ITALY

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

SENSORES

SN-SPCP-FDR1(M) detector protects doors and windows against **burglary**, **breaking through**, **drilling** and **opening** events. It employs tamper devices to signal removal, opening and magnetic masking attempts of the sensor. A model of the sensor without magnetic contact is also available under part number SN-SPCP-FDR1. Configuration and calibration of the detector are performed via a dedicated **mobile app**.

SN-SPCP-FDR1 is certified Security Grade 3 and Environmental Class II of EN 50131-2-8 standard.
SN-SPCP-FDR1M is certified Security Grade 3 and Environmental Class II of EN 50131-2-8 and EN 50131-2-6 standards.

SN-SPCP-FDR2(M) protects doors and windows against **burglary**, **breaking through**, **drilling** and **opening** events. It employs tamper devices to signal the removal and the opening of the sensor.
A model of the sensor without magnetic contact is also available under part number SN-SPCP-FDR2. Unlike FDR1 model, calibration and configuration of this sensor are performed via **DIP switches**.

SN-SPCP-FDR2 is certified Security Grade 3 and Environmental Class II of EN 50131-2-8 standard.
SN-SPCP-FDR2M is certified Security Grade 3 and Environmental Class II of EN 50131-2-8 standard and Security Grade 2 and Environmental Class II of EN 50131-2-6 standard.

SN-SPCP-FWL1 seismic detector protects masonry walls and reinforced structures against **breaking**, **breaking through** and **drilling** events. It can be installed on different types of walls, including walls made of bricks, tuff and armoured concrete. The detector employs **tamper devices** to signal removal, opening and thermal sabotage of the sensor. Configuration and calibration of the detector are performed via a dedicated **mobile app**.

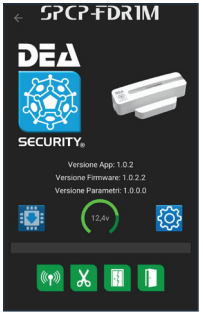
SN-SPCP-FWL1 is certified Security Grade 3 and Environmental Class II of EN 50131-2-8:2006 standard.

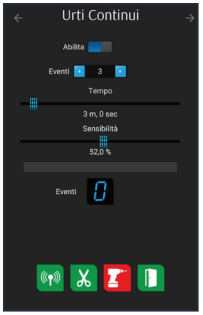
SN-SPC-GL is a glass break detector for the protection of windows, doors and glazed surfaces. Thanks to the digital sensitivity adjustment on four levels, the detector works best on any type of glass, including multi-layer and reinforced glass. It can be fixed to glass in any plane and orientation.

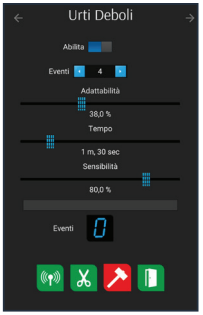
APP SERVICE

Detectors SN-SPCP-FDR1, SN-SPCP-FDR1M and SN-SPCP-FWL1 are equipped with a service app, **which can be downloaded free of charge for iOS and Android mobile devices**. This app allows configuring and calibrating the detectors using the special DG-DEA-WF2 **dongle Wi-Fi**. Once connected, the app automatically recognizes the sensor model and displays the related configuration tools.

More deeply, referring to FDR1(M) sensor, by app you can calibrate the sensor by selecting one of the **three default configurations** (window, wood and concrete, as per standard EN 50131-2-8) or performing a **custom calibration**. In the last case it is possible to create a custom configuration and set, for each type of attack (low attacks, gross attacks and continuous vibrations), all the detection parameters.







The app allows setting:
- **the detection sensitivity** (adjustable for breaking through events, as well);
- **the counting of the number of events** triggering the alarm;
- **the event reset time** between one count and another;
- **the *coupling***, namely the PIEZO/MEMS ratio coefficient.

By app it is also possible to:
- **calibrate the magnetic sensor** (SN-SPCP-FDR1M sensor only);
- view in real-time the **signal graph** and the **event counting**;
- **activate/deactivate the status LED** and configure its behaviour;
- **recognize the specific alarm event** thanks to the explicative graphic icons.

DEA SENSOR FUSION (DSF)

Thanks to DSF dual-tech technology, contained in the sensors protecting doors, windows and walls, SPC PRO can be placed among the state-of-the-art intrusion detection systems. As a matter of fact, relying on two distinct signal sources fused and processed by **intelligent algorithms allows the new sensors** to adapt to a wide range of applications and to operate in an unparralleled way in the sector of indoor seismic sensors. **And everything with very few or even no calibration operations**.

KEY BENEFITS

SN-SPCP-FDR1(M)

- **Calibration and configuration via Wi-Fi** mobile app
- Magnetic contact with **anti-masking technology** (FDR1M version)
- **Tamper device** detecting the case opening and the **magnetic tamper events**
- **Anti-removal device** which detects the removal of the sensor
- **Simplified calibration** per type of structure and **advanced custom calibration**
- **Self-test** function via service app
- **Multi-colour LED** for alarm signalling and programming activities

SN-SPCP-FDR2(M)

- **Calibration and configuration via DIP switches**
- **Anti-opening magnetic contact** (FDR2M version)
- **Anti-removal device** which detects the removal of the sensor
- **Tamper device** which detects the sensor case opening
- **Simplified calibration** per type of structure and **custom calibration**
- **Multi-colour LED** for alarm signalling and programming activities

SN-SPCP-FWL1

- **Configuration and calibration via Wi-Fi** mobile app
- Protection of any type of **masonry and armoured concrete wall**
- **Thermal tamper device**
- **Anti-removal device** which detects the removal of the sensor
- Tamper device which detects **the sensor case opening**
- **Cable entry from each side** and available interior compartment for cabling
- **Default calibration** per type of structure and **advanced custom calibration**
- **Self-test** function via service app
- **Multi-colour LED** for alarm signalling and programming activities

SN-SPC-GL

- Calibration via **DIP switches**
- Compatible with **any type of glass**
- **Anti-removal device** which detects the removal of the sensor
- **Simplified calibration** on 4 sensitivity levels
- **Automatic restore** after alarm
- **Very low consumption**
- **Multi-colour LED** for alarm signalling and programming activities

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