



SECURITY®

# SPC PRO

## Dual-tech stand-alone indoor 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.



### 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.



### HIGH-PERFORMANCE DIGITAL FILTERS

The SPC-PRO detectors employ a microcontroller which implements a full set of DSP (Digital Signal Processing) instructions used for signal processing and digital filtering which guarantee high performance and power efficiency.



### 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.



### NO POSITIONING CONSTRAINTS

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



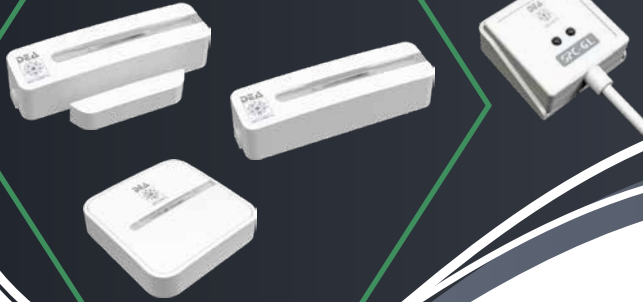
### MADE IN ITALY

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.



IMQ-SISTEMI DI SICUREZZA

# SENSORS



**SN-SPCP-FDR1M** and **SN-SPCP-FDR2M** detectors protect doors and windows against **burglary, breaking through, drilling** and **opening events**. They employ tamper devices to signal removal, opening and magnetic masking attempts of the sensor. Models of these sensors without magnetic contact are available under part numbers SN-SPCP-FDR1 and SN-SPCP-FDR2.

Configuration and calibration of the SN-SPCP-FDR1(M) detector are performed via **mobile app**, while for the detector SN-SPCP-FDR2(M) they are executed via **DIP switches**.

**SN-SPCP-FWL1** and **SN-SPCP-FWL2** seismic and shock detectors protect walls (including masonry, tuff and armoured concrete walls) and armoured structures against **breaking, breaking through** and **drilling events**. They employ **tamper devices** to detect removal, opening and thermal tamper of the sensor.

Configuration and calibration of SN-SPCP-FWL1 are performed via **mobile app**, while for SN-SPCP-FWL2 detector they are executed via **DIP switches**.

**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-layered and reinforced glass. It can be fixed to glass in any plane and orientation.

PART NUMBER	SECURITY GRADE EN 50131-2-8 STANDARD	SECURITY GRADE EN 50131-2-6 STANDARD	ENVIRONMENTAL CLASS
SN-SPCP-FDR1	3		II
SN-SPCP-FDR1M	3	3	II
SN-SPCP-FDR2	3		II
SN-SPCP-FDR2M	3	2	II
SN-SPCP-FWL1	3		II
SN-SPCP-FWL2	3		II

# APP SERVICE

SN-SPCP-FDR1, SN-SPCP-FDR1M and SN-SPCP-FWL1 detectors 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 **Wi-Fi dongle**. 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-FDRxM 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, SPC PRO detectors for doors, windows and walls can be counted among the most innovative intrusion detection solutions. 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 unparalleled way in the industry 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

- Calibration and configuration 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-SPCP-FWL2

- Calibration and configuration via DIP switches
- 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**
- **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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**DEA Security S.r.l.**

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