



SECURITY. RECESSED SHOCK DETECTOR FOR WINDOW



P/N SN-SPCP-FRC

## DESCRIPTION

DEA Sensor Fusion (DSF) Standalone recessed detector for the protection of all types of **window and door frames** against **low impacts, gross impacts, break-ins, continuous vibrations**. It combines the robustness and reliability of the piezoelectric transducer, the precision of MEMS technology and integrated electronics that guarantee timely detection and detector regulation. Calibration is simplified by the use of DIP switches.

## PACKAGE CONTENTS

In addition to this datasheet, the package contains:

- No 1 SN-SPCP-FRC detector
- No 2 round-head screws 2.9 x 9.5 mm (sensor fixing on PVC or aluminum)
- No 2 round-head screws 2.9 x 13 mm (sensor fixing on wood)

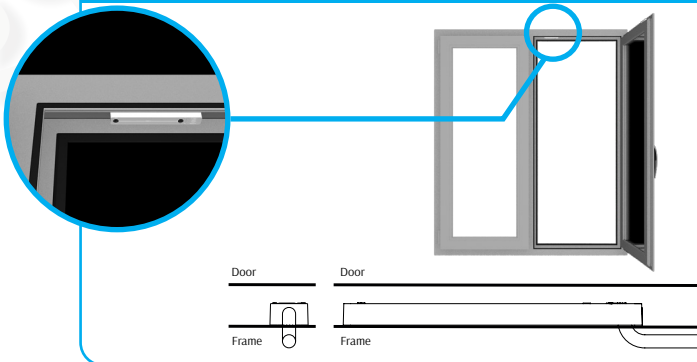
## COVERAGE AREA

The detector is able to cover an entire window frame, including any glass surfaces, up to an extension of 4 m<sup>2</sup>. However, this value may be reduced due to the conditions and characteristics of the window frame.

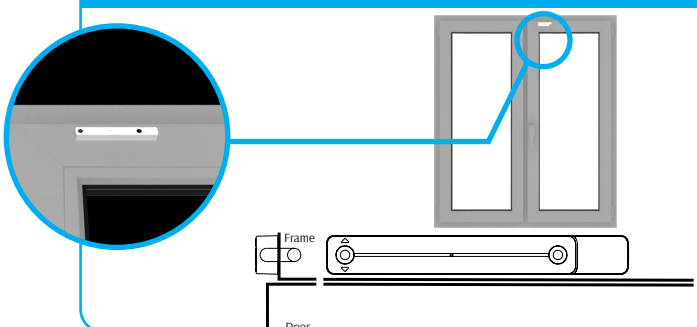
## INSTALLATION

Drill the window frame (using the detector's shim as a template) with a drill bit smaller than the screws provided (to facilitate the tightening of the self-tapping screws), then fix the detector with the screws provided.

## APPLICATION EXAMPLE - RECESSED MOUNTING



## APPLICATION EXAMPLE - ON THE FRAME



## COMPLIANCE

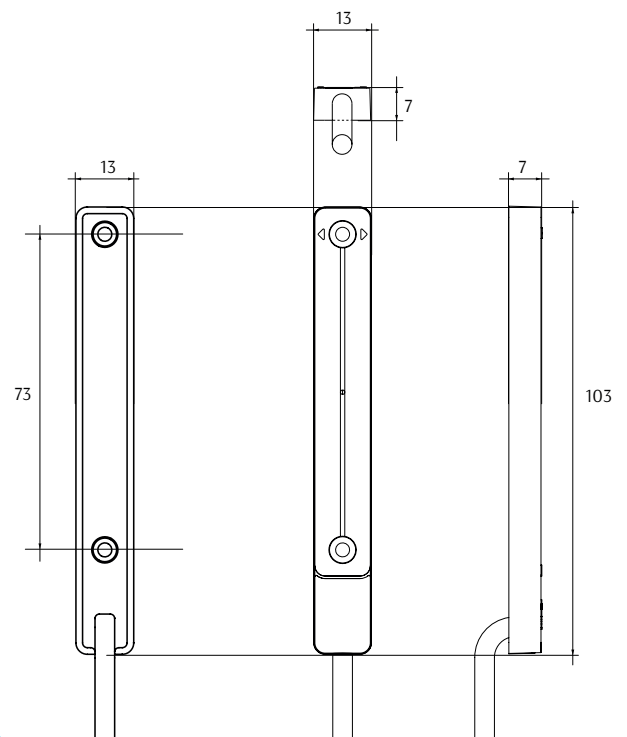
- DIRECTIVE 2014/30/EU (EMC)**
  - EN 50130-4:2011+A1:2014
  - EN 61000-6-3:2021
- DIRECTIVE 2011/65/EU (ROHS)**
  - EN 50581:2012
- STANDARD EN 50131-1:2006+A1:2009+A2:2017+A3:2020**
  - EN-50131-2-8:2016



## TECHNICAL FEATURES

- SECURITY GRADE:** Grade 3 certified (EN-50131-2-8:2016)
- ENVIRONMENTAL CLASS:** Class II certified
- DIMENSIONS:** 103 x 7 x 13 mm (L x H x D)
- PACKAGE DIMENSIONS:** 75 x 35 x 200 mm (L x H x D)
- GROSS WEIGHT:** 95 g
- NET WEIGHT:** 52 g
- MATERIAL:** ABS
- COLOUR:** white
- POWER SUPPLY:** 12 V<sub>DC</sub> (±25%) (nominal)  
5 V<sub>DC</sub> (low supply voltage)\*  
15,5 V<sub>DC</sub> (high supply voltage)\*
- CURRENT:** 13 mA
- OPERATING TEMPERATURE:** -20 °C ÷ +70 °C (not certified)  
-10 °C ÷ +40 °C (75 % h.r.) - certified
- RELATIVE HUMIDITY:** <95% non condensing
- IP RATING:** IP40
- FUNCTIONS AND DEVICES:**
  - anti-removal tamper
  - Power supply anomalies reporting\*
  - remote control LED signals
- OUTPUTS (NC):**
  - alarm (continuous impacts, low attacks, gross attacks and heavy attacks) and power fail\*
  - tampers
- COVERAGE AREA:** 4 m<sup>2</sup>  
(\* Functions not subject to EN 50131-2-8 certification)

## DIMENSIONAL SCHEME





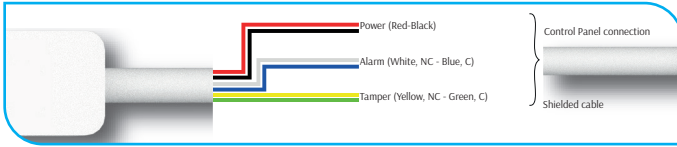
# SPC PRO

SECURITY® INDOOR SHOCK AND SEISMIC (DUAL-TECH) DETECTOR



## CONNECTIONS

The detector is supplied with a 6-wire cable (unshielded) approximately 1.5 m long: 12 V<sub>DC</sub> power supply (+ and -), alarm and power fail, tampering.

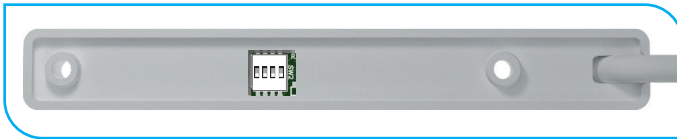


TO CONNECT THE DETECTOR UNIT TO THE ALARM CONTROL PANEL, USE ONLY A SHIELDED CABLE.



## CALIBRATIONS

**DETECTION PARAMETERS.** The adjustment of detection parameters is performed via DIP switches, which allow selection between presets compliant with the EN 50131-2-8 standard and custom settings.



**EN 50131-2-8 PRESETS.** The table shows the configuration of the DIP switches, according to the type of protected structure, compliant with the EN 50131-2-8 standard.

STRUCTURES	DIP SWITCH
<b>WINDOW</b> - set by default (generic framed class windows)	ON OFF
<b>WOOD</b> (wood plate)	ON OFF
<b>CONCRETE</b> (concrete plate)	ON OFF

**CUSTOM SETTINGS.** The sensitivity of the detector can be configured by adjusting it with the DIP switches, as shown in the table.

DIP SWITCH	FUNCTION
1 - 2 - 3	Structure Type / Sensibility
4	Enable (ON) or disable (OFF) detector LED

**PRESET**

SENSITIVITY	DIP SWITCH	RECOMMENDED STRUCTURES
<b>Low</b>	ON OFF	PVC/Wooden Frame
<b>Medium-low</b>	ON OFF	PVC/Wooden Frame
<b>Medium-high</b>	ON OFF	Aluminum/Metal Frame
<b>High</b>	ON OFF	Armored Door

**N.B.**

THE FIXTURES LISTED IN THE "RECOMMENDED STRUCTURES" COLUMN ARE TO BE CONSIDERED PURELY INDICATIVE; IF NECESSARY, IT IS POSSIBLE TO INCREASE OR DECREASE THE SENSITIVITY BY CONSULTING THE "SENSITIVITY" COLUMN.



## STATUS LED

The detector is equipped with blue LEDs to communicate, depending on the flashing mode, its status. The various states are indicated in the table:

MODE	BEHAVIOR
Pre-alarm	on for 800 ms
Alarm	on for 3 s
Ignition self test failed (fault)	very fast steady flashing

The LED can also be disabled remotely by acting on the detector's supply voltage.

MODE	POWER SUPPLY RANGE
LED on (If DIP 4 in ON)	12 V <sub>DC</sub> ±25%
LED off	7 V <sub>DC</sub> ±25%



## DEA Security S.r.l.

Via Bolano, snc - 19037 Santo Stefano di Magra (SP) - tel. +39 0187 699233 - fax +39 0187 697615  
VAT NO.: IT00291080455  
www.deasecurity.com - dea@deasecurity.com

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