SECURITY. SHOCK DETECTOR FOR DOORS/WINDOWS

SN-SPCP-FDR2





DESCRIPTION

Stand-alone detector with DSF (DEA Sensor Fusion) technology for the protection of doors and windows against light impacts, strong impacts, breakthrough events and continuous vibrations. It couples the robustness and reliability of the piezoelectric transducer, the accuracy of the MEMS technology with an integrated electronics which ensures Point identification and calibration of the sensor. It is equipped with an ati-removal device and calibration is easied by means of dip-switches.



PACKAGE CONTENTS

In addition to the datasheet herein, the pack contains:

- 1 no SN-SPCP-FDR2M detector
- 2 no round head self-tapping screws 3x16 mm (for fixing the sensor to the structure)
- 2 no round head self-tapping screws 3x16 mm (for fixing the sensor with base)
- 1 no mini screwdriver



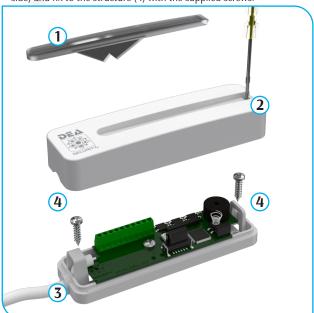
COVERAGE AREA

SN-SPC-FDR2M detector protects the whole structure, including glazed surface (if any), up to 4 sqm (see Application example). However, such value can decrease depending on the conditions and the features of the window/door.



INSTALLATION

To open the detector, put off the light guide present on the cover (1), raise it from its right side (opposite to DEA Security brand); insert the screwdriver in the side hole (2) and prising the unlocking support. Make the cable (3) pass through the desired hole (on the base or on the sensor side) and fix to the structure (4) with the supplied screws.



COMPLIANCE

- DIRECTIVE 2014/30/EU
 - EN 50130-4:2011
 - EN 61000-6-3:2007+A1:2011





- DIRECTIVE 2011/65/EU
- EN 50581:2012
- STANDARD EN-50131-1/A2:2017
 - EN-50131-2-8:2016

TECHNICAL FEATURES

SECURITY GRADING: Grade 3 compliant (EN 50131-2-8)

ENVIRONMENTAL CLASS: Class II compliant

DIMENSIONS: sensor 89 x 26 x 20 mm (L x H x D) PACKAGING DIMENSIONS: 110 x 75 x 35 mm (L x H x D)

GROSS WEIGHT:: 62 g 46 g NET WEIGHT CASE MATERIAL: ABS COLOUR white

POWER SUPPLY 12 V ±25% (nominal)

8 V (low supply voltage)

CURRENT 20 mA **OPERATING TEMPERATURE:** -20 °C ÷ +70 °C RELATIVE HUMIDITY: <95% non condensing

IP RATING IP40

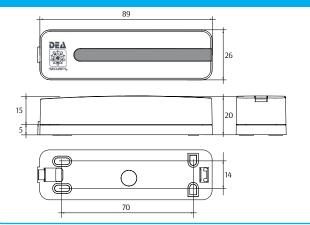
FUNCTIONS AND DEVICES: anti-removal and anti-opening tamper

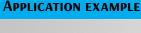
INPUTS: Reset and ARM (for alarm memory)

OUTPUTS (NC): alarm line (continuous impacts, low attacks, gross attacks and heavy attacks), power fail

AVERAGE COVERAGE AREA: 4 m²

DIMENSIONAL SCHEME







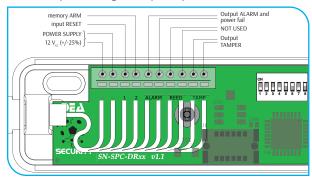


SECURITY INDOOR SHOCK AND SEISMIC (DUAL-TECH) DETECTOR



CONNECTIONS

The detector is equipped with a 10-way terminal block: 12 V_{DC} power supply (+ e -), RESET input (1), ARM alarm memory (2), alarm output (ALARM), power fail signal, tamper output (TAMP).





AFTER POWERED THE SENSOR, WAIT FOR THE INITIALIZATION FUNCTIONAL CHECKS. AT THIS STAGE THE SENSOR MUST BE FIXED. ONCE INITIALIZATION IS COMPLETE, THE LED SIGNALS CORRECT OPERATION (BLUE FLASHES) OR MALFUNCTIONS (MAGENTA FLASHES).



CALIBRATION

Calibration and configuration are performed via dip-switches.



Calibration according to EN 50131-2-8

In accordance with standard EN 50131-2-8, the detector calibration must be the following, depending on the protected structures:

	DIP SWICTH		
WINDOW - default (Generic window with glass)	1 2 3 4 5 6 7 8 ON OFF		
WOOD (wooden plate)	1 2 3 4 5 6 7 8 ON OFF		
CONCRETE (concrete plate)	1 2 3 4 5 6 7 8 ON OFF		



FOR THE SELECTION OF THE PRESETS COMPLIANT TO STANDARD EN 50131-2-8, YOU NEED TO OPERATE DIP-SWITCHES 1,2,3 ONLY. IN THIS CONFIGURATION THE REMAINING DIP-SWITCHES DO NOT MODIFY ANOTHER PARAMETERS.

■ DIP-SWITCH FUNCTIONS AND CUSTOM CALIBRATION

DIP SWICTH	FUNZIONE	
1 - 2 - 3	Sensitivity and programming levels	
4 - 5	Low attack counting	
6	Enable (ON) or disable (OFF) continuous vibrations	
7	Memory time for low attack counting (OFF = 45" - ON = 1'30") Enable (ON) or disable (OFF) led.	
8		

The detector can be custom calibrated via dip-switches, as shown below:

sensitivity and programming levels

Levels	DIP SWICTHES	
1 (MINIMUM)	1 2 3 4 5 6 7 8 ON OFF O OFF	
2	1 2 3 4 5 6 7 8 ON OFF	
3	1 2 3 4 5 6 7 8 ON OFF	
4	1 2 3 4 5 6 7 8 ON OFF	
5 (MAXIMUM)	1 2 3 4 5 6 7 8 ON OFF	

N.B.

THE SENSITIVITY CAN BE INCREASED CONSIDERING LEVEL 1 AS MINIMUM SENSITIVITY AND LEVEL 2 AS MAXIMUM SENSITIVITY.

event number counting (low attacks)

Event No counting	DIP SWICTHES	Event No counting	DIP SWICTHES
2	1 2 3 4 5 6 7 8 O ON OFF	4	1 2 3 4 5 6 7 8 ON OFF
3	1 2 3 4 5 6 7 8 O ON OFF	5	1 2 3 4 5 6 7 8 ON OFF

N.B.

THE DETECTION OF THE CONTINUOUS VIBRATIONS (ATTACKS PERFORMED WITH ELECTRIC TOOLS, SUCH AS CIRCULAR SAWS) DOES NOT NEED ANY CALIBRATION.



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