



DETECTOR WITH MAGNET FOR WINDOWS AND DOORS



P/N SN-A03P-DRM



DESCRIPTION

Terminated **piezoceramic detector** (without external resistances) piezodynamic detector, having 2 non-polarized conductors. It protects doors and windows (glazed surfaces included) against shock and breakthrough and opening.

The sensitive element, the piezoceramic transducer, is a static component highly resistant to mechanical stress, rigid and inexhaustible, which offers a constant detection over time. It senses the vibrations caused by an intrusion attempt, generating signals amplified and processed by **BR-A03P-Z4 analysis board**.



PACKAGE CONTENTS

- SN-A03P-DR sensor with base, magnet, spacers and datasheet
- No 1 threaded iron nut M3
- No 3 self-tapping screws TS 2,9 x 19 mm
- No 1 screw M3 TS 3 x 16 mm
- No 1 self-tapping screw TP (nylon) M3



COVERAGE AREA

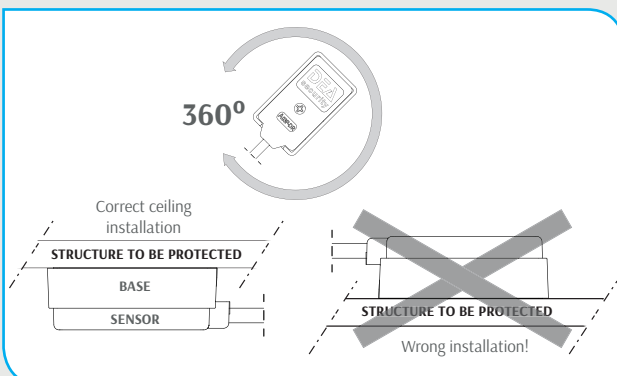
The efficiency of the sensor depends on several factors, such as the material, the dimensions of the structure to protect or the level of performance to reach. In most cases, each SN-A03P-DRM sensor is able to cover up to 4 m², which are sufficient to protect a whole window or door, including the glass surface.



INSTALLATION

SN-A03P-DRM must be fixed to the frame of the door or window to be protected. It can be placed vertically, 360° rotated or ceiling installed, with the amplification base placed to the top.

The magnet must be installed on the hinged door, facing the left side of the detector (considering the cable downwards) and aligned to the upper edge of the sensor.



COMPLIANCE

Sensor connected to BR-A03P-Z4 processing board:

- Directive 2014/30/EU
- EN 50130-5:2011
- EN 50130-4:2011 + A1:2014
- EN 50131-1:2006 + A1:2009
- EN 61000-6-3:2007 + A1:2011

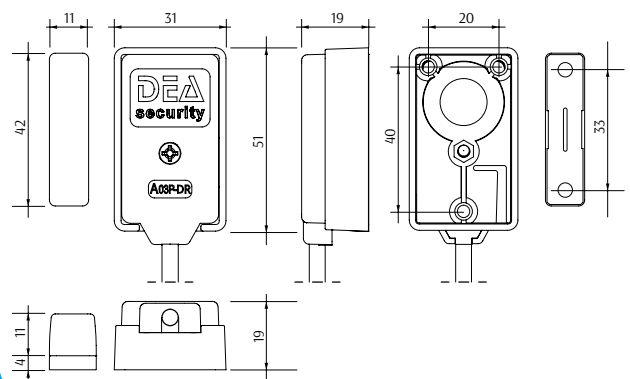


TECHNICAL FEATURES

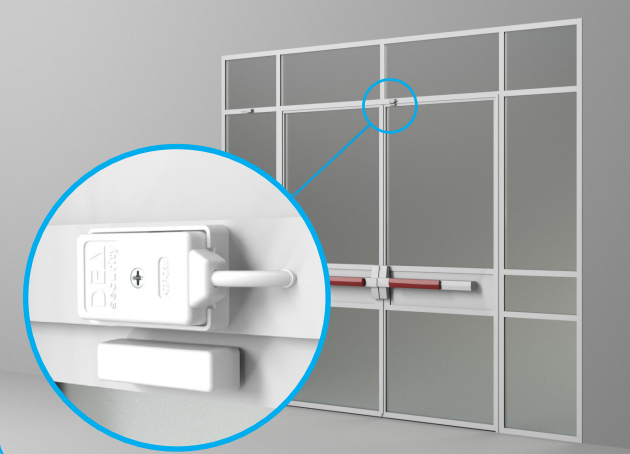
- **SECURITY GRADING:** Grado 3 (EN-50131-2-6)
- **ENVIRONMENTAL CLASSIFICATION:** Class II (EN-50131-2-6)
- **DIMENSIONS:**
 - ▶ sensor: 52 x 31 x 19 mm (W x H x D)
 - ▶ magnet: 42 x 11 x 11 mm (W x H x D)
- **GROSS WEIGHT:** 93 g
- **COLOUR:** white
- **OPERATING TEMPERATURE:** -25 °C ÷ +70 °C
- **RELATIVE HUMIDITY:** <95% non condensing
- **IP RATING:** IP40
- **FUNCTIONS AND DEVICES:**
 - ▶ antiremoval device
 - ▶ magnetic contact for opening detection
- **CONNECTIONS :** 2 non-polarized conductors + shield
- **AVERAGE COVERAGE AREA:** 4 m²



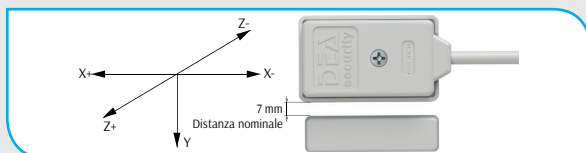
DIMENSIONAL SCHEME



APPLICATION EXAMPLE



THE SENSOR MUST NEVER BE INSTALLED "ON THE FLOOR", WITH THE UPPER PART (DEA LOGO SERIGRAPHY SIDE) FACING UPWARDS.



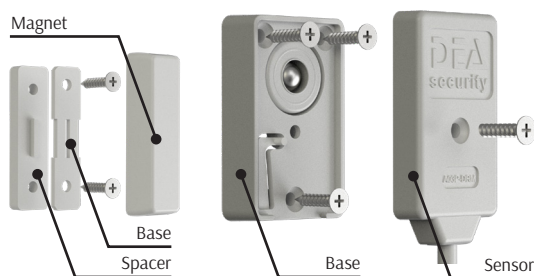
Approach/removal distances Table.

Axes	Event	Distance		Signal
		No on Iron	On Iron	
Z+	Removal	19 mm	15 mm	Intrusion
	Approach	16 mm	14 mm	Stand-by
Z-	Removal	21 mm	8 mm	Intrusion
	Approach	15 mm	6 mm	Stand-by
Y	Removal	17 mm	10 mm	Intrusion
	Approach	12 mm	7 mm	Stand-by
X+	Removal	12 mm	9 mm	Intrusion
	Approach	9 mm	7 mm	Stand-by
X-	Removal	10 mm	8 mm	Intrusion
	Approach	9 mm	6 mm	Stand-by



THE NOMINAL AIR GAP BETWEEN MAGNET AND SENSOR MUST BE 7 MM.

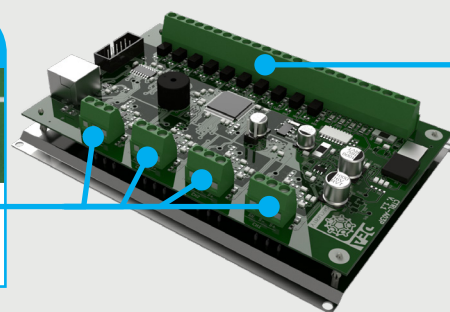
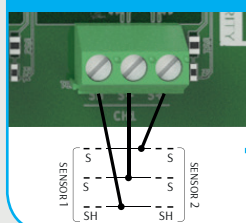
INSTALLATION SCHEME



CONNECTIONS

SN-A03P-DRM detector must be exclusively conncted to BR-A03P-Z4 analysis board, which manages up to 8 sensors, that is 2 sensors for each channel. The sensors are connected to BR-A03P-Z4 analysis board via the three terminals of the respective channels, by means of 2 non-polarized conductor cable and the shield. The connection to the control panel occurs via relay outputs from BR-A03P-Z4 analysis board.

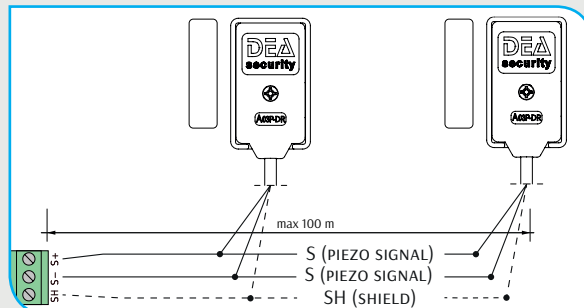
INPUTS



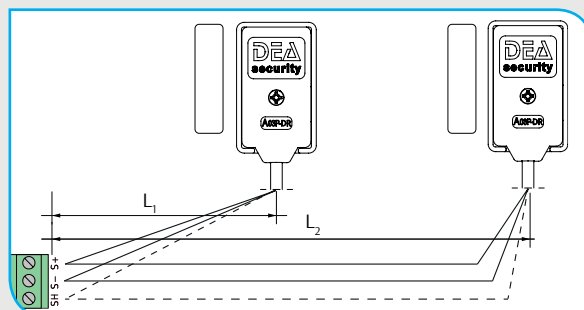
SENSOR CONNECTIONS

The sensors are connected to BR-A03P-Z4 analysis board via the three terminals of the respective channels (CH1, CH2, CH3 e CH4), by means of 2 non-polarized conductor cable and the shield.

- Parallel connection: the maximum distance between the board and the last sensor must not exceed 100 m.



- Star connection: L1 + L2 of the two branches must not exceed 100 m.

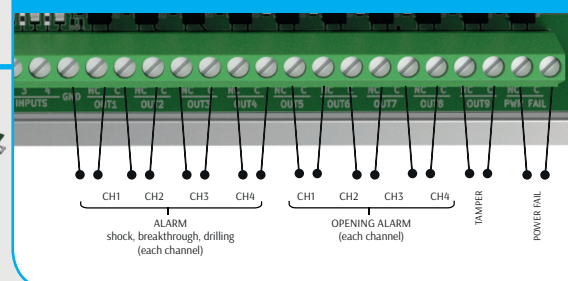


ALL OF THE JUNCTIONS MUST BE TIN SOLDERED. DO NOT INCLUDE POWER SUPPLIES OR OTHER SIGNALS IN THE CABLE USED FOR THE SENSOR SIGNALS.

N.B.

THE BEST PERFORMANCE OF THE SYSTEM IS OBTAINED WITH A CORRECT CALIBRATION AND PROGRAMMING OF THE ANALYSIS BOARD (SEE BR-A03P-Z4 DATASHEET).

OUTPUTS



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