



DETECTOR FOR WALLS



P/N SN-A03P-WL

DESCRIPTION

Terminated **piezoceramic detector** (without external resistances) for the protection of wall and other types of structures such as **safes** and / or **armored cabinets**, from breaking, breaking-through and drilling operations with diamond core drill.

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**.

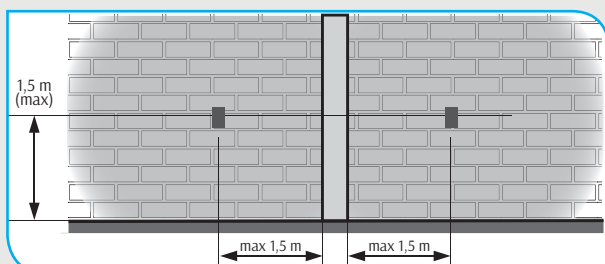
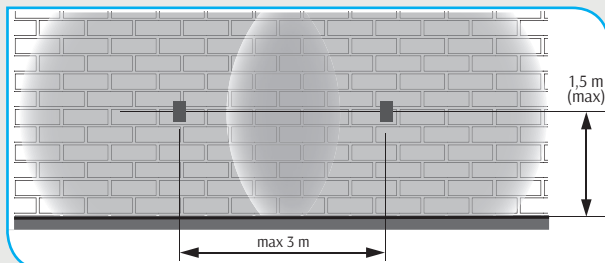
PACKAGE CONTENTS

- SN-A03P-WL sensor and datasheet;
- No 4 wall plug (Ø 4 mm)
- No 4 self-tapping screws TP 2,9 x 25 mm
- No 1 Jumper (disable/enable back removal device)
- No 1 mini-screwdriver

COVERAGE AREA

The detector coverage area depends on the characteristics of the protected structure: maximum effectiveness is obtained with traditional masonry walls and decreases with less rigid structures. It is necessary to consider factors that can interfere, or interrupt, the detection area: reinforced concrete elements, angles, inhomogeneity of materials and / or thickness of the protected wall.

In a continuous masonry wall, the detector covers an average area of 1.5 m radius thus allowing detectors to be positioned every 3 m. Columns and corners interrupt the transmission of vibrations to the detector, so the sensor must be fixed at a maximum distance of 1.5 m from the column or from the corner of the wall.



COMPLIANCE

Sensor connected to BR-A03P-Z4 processing board:

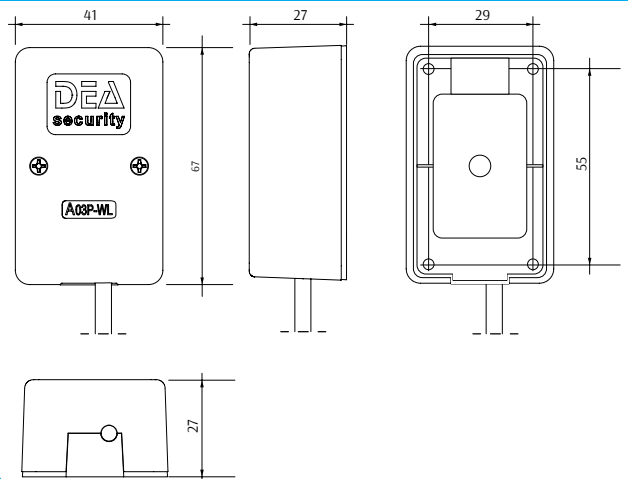
- Directive 2014/30/EU
- EN 50130-4:2011
- EN 61000-6-3:2007+A1:2011



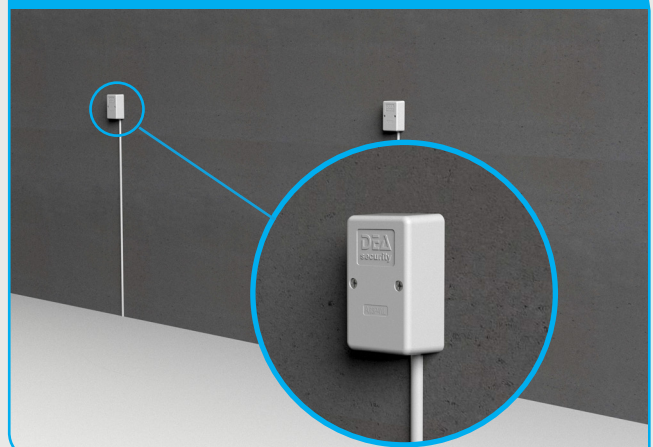
TECHNICAL FEATURES

- **SECURITY GRADING:** designed in accordance with Grade 3 (EN 50131)
- **ENVIRONMENTAL CLASSIFICATION:** designed in accordance with Class II (EN 50131)
- **DIMENSIONS:** 41 x 67 x 27 mm (W x H x D)
- **GROSS WEIGHT:** 50 g
- **COLOUR:** white
- **OPERATING TEMPERATURE:** -25 °C ÷ +70 °C
- **RELATIVE HUMIDITY:** <95% non condensing
- **IP RATING:** IP55
- **FUNCTIONS AND DEVICES:**
 - detector removal device
 - detector opening device
- **CONNECTIONS:** 2 non-polarized conductors + shield
- **AVERAGE COVERAGE AREA:** approx 9 m²

DIMENSIONAL SCHEME



APPLICATION EXAMPLE

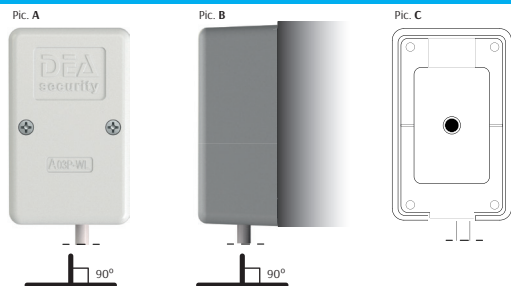




INSTALLATION

The detector must be installed in a perfectly vertical position, with the output cables pointing downwards (pics A and B) using the screws and / or wall plugs supplied.

INSTALLATION SCHEME



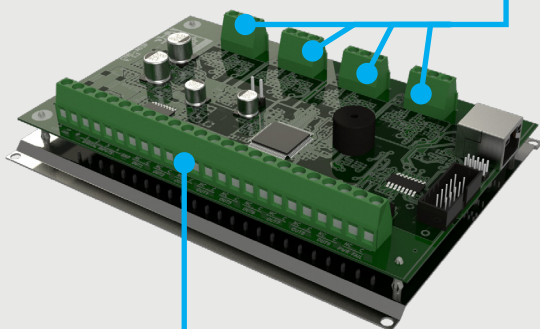
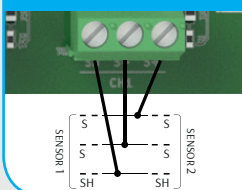
DURING INSTALLATION, IN ORDER NOT TO DEFORM THE RUBBER SPACER OF THE REMOVAL DEVICE, LOCATED AT THE CENTER OF THE REAR PART OF THE SENSOR (FIG. C), AVOID LATERAL AND / OR VERTICAL MOVEMENTS OF THE SENSOR ON THE WALL SURFACE.



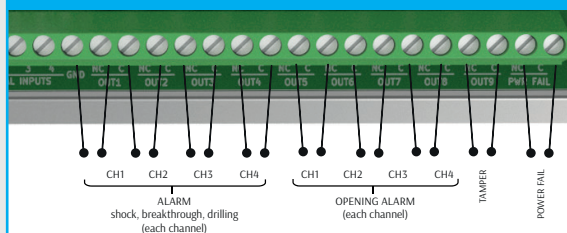
CONNECTIONS

The detector must be connected exclusively to the processing board BR-A03P-Z4, which manages up to 8 sensors, that is 2 sensors for each channel. The processing board interfaces with the control panel via NC relay outputs.

INPUTS

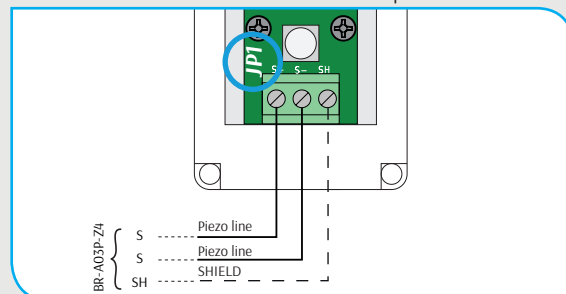


OUTPUTS



SENSOR CONNECTIONS

The CB-A03P-2C100 cable must be connected to the sensor. After opening the casing, unscrewing the two front screws, open the detector and connect the cable as shown in the picture.

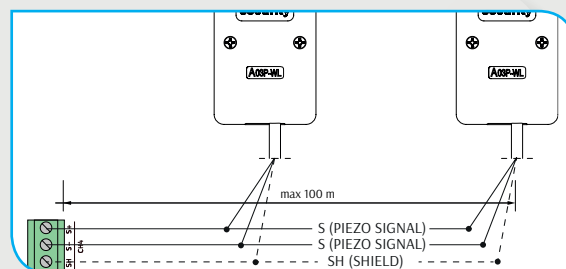


N.B.

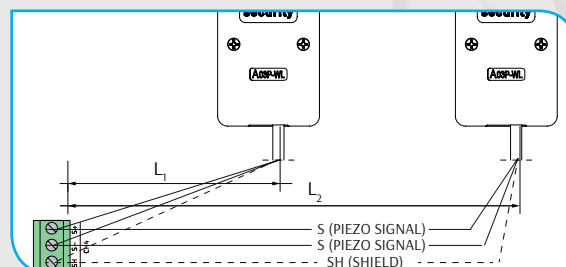
IN CASE OF INSTALLATION ON VERY UNEVEN WALL IT IS POSSIBLE TO DISABLE BACK REMOVAL DEVICE BY CLOSING JUMPER JP1.

The detectors are connected to BR-A03P-Z4 processing board using a non-polarized 2-conductor shielded cable.

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

N.B.

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

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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