



GLASS-BREAK DETECTOR



P/N SN-A03P-GL

DESCRIPTION

Terminated **piezoceramic detector** (without external resistances) for the protection of glass surfaces 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

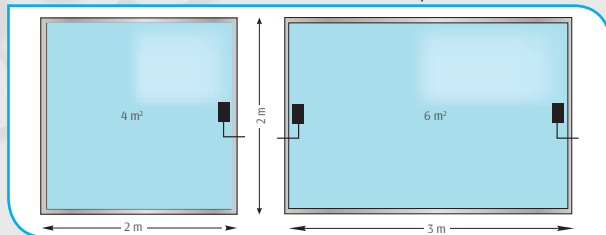
SN-A03P-GL sensor, double-sided adhesive, datasheet.

COVERAGE AREA

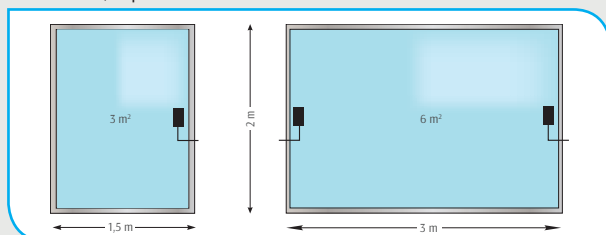
The sensor coverage area depends on the type of protected glass. The anti-accident, anti-theft, anti-shatter or bullet-proof glasses tend to absorb vibrations and therefore limit the coverage area.

THE SENSOR ONLY PROTECTS THE SURFACE TO WHICH IT IS FIXED

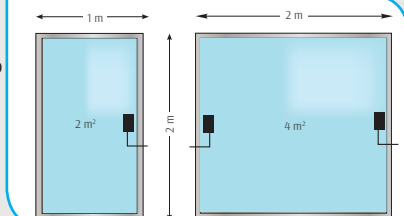
- TEMPERED GLASS (thickness from 5 to 11 mm): up to 4 m² of surface.



- ANTI-ACCIDENT / SHATTERPROOF GLASS (up to glass layers from 6 to 11 mm thick): up to 3 m² of surface.



- SHATTERPROOF / BULLETPROOF GLASS (3 layers of glass - up to 26 mm thick): up to 2 m² of surface.



COMPLIANCE

Sensor connected to BR-A03P-Z4 processing board:

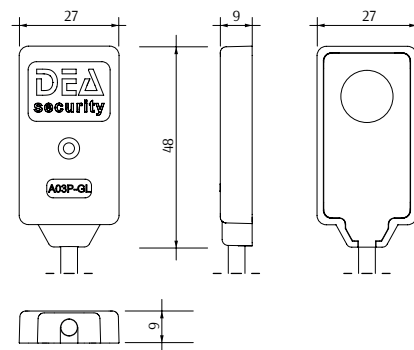
- Directive 2014/30/EU
- EN 50130-4:2011
- EN 61000-6-3:2007+A1:2011



TECHNICAL FEATURES

- SECURITY GRADING:** designed in accordance with Grade 2 (EN-50131)
- ENVIRONMENTAL CLASSIFICATION:** designed in accordance with Class II (EN-50131)
- DIMENSIONS:** 27 x 48 x 9 mm (W x H x D)
- GROSS WEIGHT:** 63 g
- COLOUR:** white
- OPERATING TEMPERATURE:** -25 °C ÷ +70 °C
- RELATIVE HUMIDITY:** <95% non condensing
- IP RATING:** IP55
- CONNECTIONS:** 2 non-polarized conductors + shield
- AVERAGE COVERAGE AREA:**
 - 4 m² on tempered glass (single layer) up to 11 mm thick
 - 3 m² on reinforced glass (double layer) up to 11 mm thick
 - 2 m² on reinforced glass (triple layer) up to 26 mm thick

DIMENSIONAL SCHEME



APPLICATION EXAMPLE

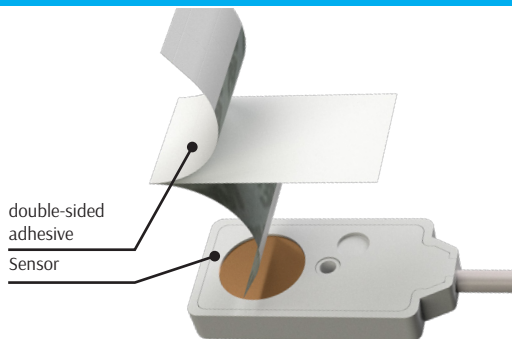




INSTALLATION

The detector is applied directly to the glass by means of the two-sided adhesive supplied. In case of protection of other surfaces, it is possible to use a fixing screw to be inserted in the central panel.

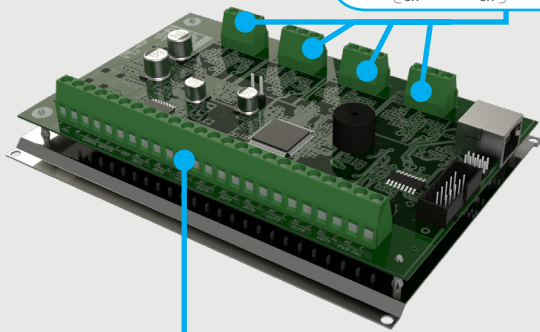
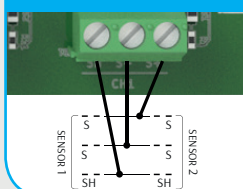
INSTALLATION SCHEME



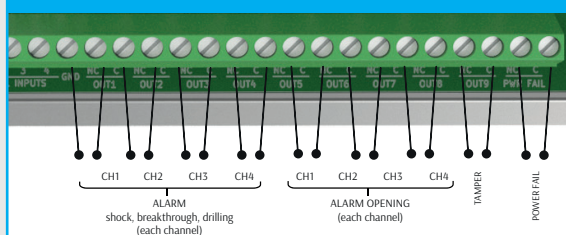
CONNECTIONS

The detector is connected exclusively to BR-A03P-Z4 analysis board, which manages a maximum of 8 sensors, provides for 2 sensors for each available channel. The interface with the alarm system is via the relay outputs.

INPUTS



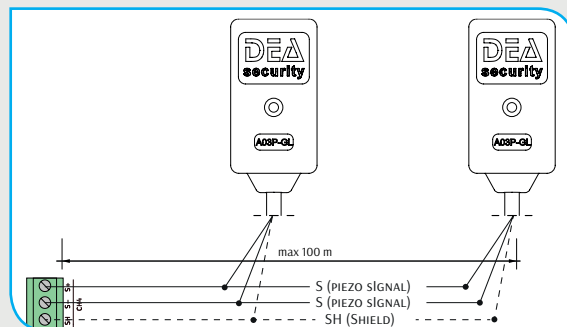
OUTPUTS



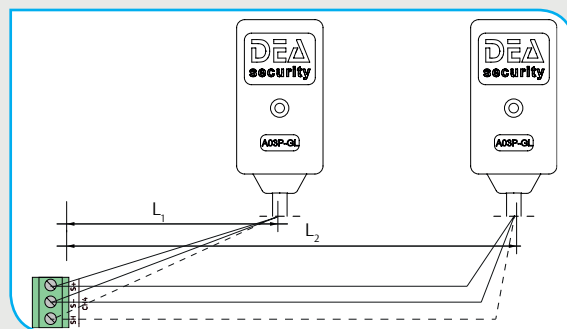
SENSOR CONNECTIONS

The sensors are connected to BR-A03P-Z4 analysis board via the three wires of the respective channels, via the non-polarized 2-wire 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 JUNCTIONS MUST BE 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).

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