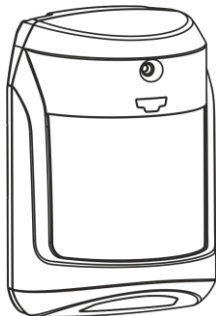




Astra-621 Motion + Glass break detector



User guide

Manufacturer:
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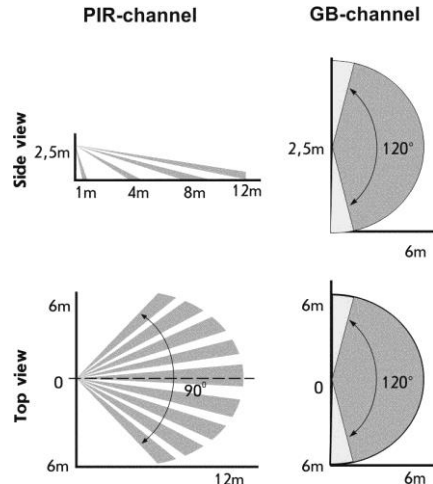
Made in Russia

rev. 621-v2_2_instr_en

1 FUNCTION

The detector is intended for detection of unauthorized access into an enclosed area, detection of glass breaking of glazed constructions of an enclosed area and generation of an alarm notification by opening contacts of dedicated alarm relay.

2 DETECTION ZONES



3 SPECIFICATIONS

Detectable moving speed, m/sec 0.3 to 3.0
Supply voltage, V 9 to 15
Current consumption, mA 15
Overall dimensions, mm 92×64×45

Operation conditions

Temperatures, °C - 20 to + 55
Relative air humidity, % up to 98 at + 25 °C
without moisture condensation

4 DELIVERY SET

Bracket – 1 pc., dowel - 2 pcs., screw - 2 pcs., label – 2 pcs.

5 INFORMATIVITY

In the factory setting, indication of notifications Alarm, Power failure is enabled permanently, indication of other notifications is enabled for 24 hours after the detector is powered on.

Alarm mode of notifications is changed by closing the contact **Ind** after the detector enters the standby mode, for which close the contact **Ind** for at least 10 sec. until the indicator turns on:

- 1x flash - indication is allowed,
- 2x flash – indication disabled (Alarm notifications are disabled immediately after changing the mode, notifications are generated only by opening the alarm relay of the detector).

ATTENTION! When the detector's power supply is reset, the factory setting of the indication mode is automatically restored.

Notification	Indication	Relay	
		PIR	GB
Boot time	Flashes 1 time per 1 sec after power on. Duration up to 60 sec	Up to 60 sec	Up to 60 sec
Norm	Off		
PIR-Alarm	Movement in the detection zone	for 4 sec	
GB-Alarm	Glass breaking in the detection zone		for 4 sec
PIR + GB Alarm	Movement and glass	for 4 sec	for 4 sec

Notification	Indication	Relay	
		PIR	GB
	breaking in the detection zone		
High frequency interference	2 flashes with a period 0.6 sec when exposed to interference		
Low frequency interference	1 flash with a period 0.6 sec when exposed to interference		
Low supply voltage	On when supply voltage lower than 8.4 V		
Tampering	Off	TMP	

« » – relay is closed, « » – relay is open, – indicator on, **TMP** – TMP circuit is open

6 INSTALLATION PLACE

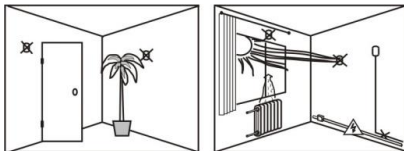
- 1) Recommended installation height is **2.3-2.5 m** and at a distance not more than **6m** from the most distant spot of protected glass.
- 2) The detector cannot be used in premises with high level of acoustic interference.
- 3) Alarm loop and power supply wires should be located far from power cables.

To eliminate false alarm hazards

- 1) It is recommended to close all doors, air-vents, switch off possible sources of intense air flows (fans, air-conditioners) and acoustic interferences (loudspeakers, etc.) in the room during protection period.
- 2) The detector's location should provide direct visibility of all secured glass parts; masking

the detector with decorative curtains is not allowed, as sensitivity may be lost.

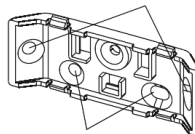
Not recommended installation places



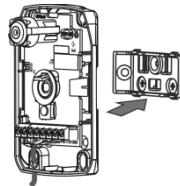
7 INSTALLATION ORDER

- 1) Open the detector by pushing the cover latch out of the base slot. Remove cover.
- 2) Fasten the bracket.
- 3) Press out the plug of the selected wire entry hole in the detector base.

Corner installation
Mounting holes



Wall installation
Mounting holes



- 4) Route the wires from the power supply and the alarm loop through the wire entry hole.
- 5) Mount the detector on the bracket.

Orient the base of the detector strictly according to the figure!

It is possible to install using a ball bracket (supplied separately).

- 6) Fix the connected wires in the detector terminals:



TMP Relay GB Relay PIR +12V GND

TMP – tampering control terminals;

Relay PIR, Relay GB – loop terminals;

+12V, GND – power supply loop terminals.

- 7) Replace the detector cover (until it clicks).

- 8) Perform GB and PIR channels testing (see p. 9).

9 TESTING

GB-channel:

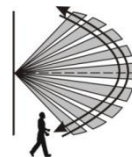
- 1) Turn on the power of the detector. The indicator flashes for a maximum of 60 seconds.
- 2) During this time, briefly (for 1-2 sec) close the contact **Ind**. The GB test mode will turn on for 8 minutes.
- 3) Close the cover.
- 4) Using a glass break simulator, check the detector operation for glass break simulation, high-frequency and low-frequency interference (see table).

Note – It is recommended to use glassbreak simulators of Honeywell brands: FG-701 Glassbreak Simulator, Argus-Spektr: ARS Acoustic Glass Break Simulator, DSCTM: AFT-100 Glassbreak Simulator operating in "plate" mode.

PIR-channel:

After the end of the GB-channel testing mode (8 min), perform a **TEST pass**.

Moving through the detection zone at a speed of 0.3 m/sec and 3 m/sec, determine the sensitivity zones by turning on the indicator ("PIR Alarm" notification).



10 WARRANTY

The operation warranty period is 5 years from the date of operation start-up but no longer than 5 years 6 months from the date of manufacturing subject to the requirements of the User guide.