



Astra-512

(Volumetric Lens)
Optic-Electronic PIR Motion
Detector



User guide

Manufacturer:
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Made in Russia

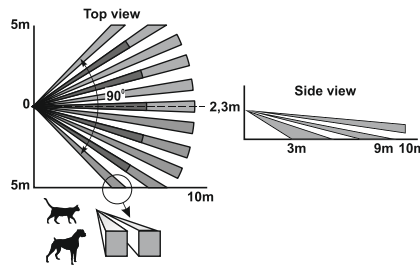
Rev. 512-v2_1_instr_en

1 FUNCTION

Detector is intended to detect unauthorized access into closed protected area, and to generate an alarm notification by opening of signaling relay contacts.

The detector is resistant to domestic animals' movements.

2 DETECTION ZONE



3 SPECIFICATION

Range of detected moving speed, m/s.....from 0.3 to 3.0
Power supply voltage, V.....from 9 to 15
Current consumption, mA, max.....12
Overall dimensions, mm.....78 × 63 × 44

Operating Conditions

Temperature range, °Cfrom - 30 to + 55
Relative air humidity, %..... up to 98 at + 25 °C
Without moisture condensation

4 DELIVERY SET

Delivery set includes: dowel – 2 pcs., screw – 2 pcs., bracket - 1 pcs., user guide – 1pc., label – 2 pcs.

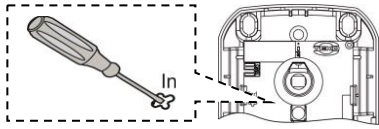
5 OPERATING MODE

Notifications	LED	Relay/TMP
Boot time	Flashes 1 time per 1 sec after powering until 60 sec	for 60 sec
Norm	Off	
Alarm	Lights up 1 time for 2 sec during movement is detected in the detection zone (if indication is allowed)	for 2 sec
Failure	Lights up until the failure is eliminated	until the failure is eliminated
Tampering	Off	TMP
" — " — relay closed, " — " — relay opened, TMP — " — TMP relay opened		

In the factory setting, the "alarm" indication is permanently enabled.

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

Changing the **indication mode** of "Alarm" is made by closing the **Ind** contact for **at least 10 sec.**



- **1-time flash** – indication **enabled**;
- **2-time flash** – indication **disabled**.

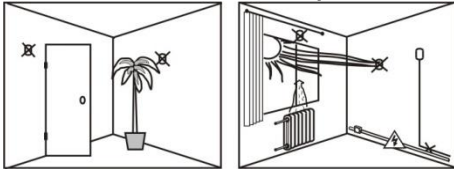
6 INSTALLATION PLCE

- 1) Recommended installation height is 2.3+0.05 m.
- 2) Install detector on bearing walls and carriers.
- 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 fans, air-conditioners and other sources of intense air flows in the room during protection period.
- 2) Any furniture or interior items within 3 m of the detector which could make possible for an animal to climb above the floor level must be removed.

Not recommended installation places

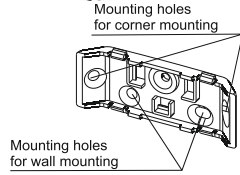


7 INSTALLATION PROCEDURE

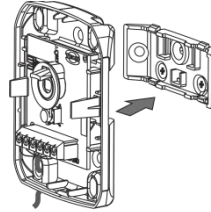
1) Open the detector by pushing the cover latch out of the groove in the base



2) Fix the bracket to location chosen for installation of the detector



3) Install the detector on the bracket and connect the wires (see section 8).



Orient the detector base strictly vertically according to the drawing!

There is a possibility of installation using a ball bracket (supplied separately).

4) Replace the detector cover (until it clicks).

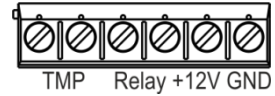


5) Perform **Test** (see section 9).

6) Set the required indication mode (see section 5).

8 WIRING

Perform wiring to detector's terminals in accordance with control panel operating manual.



TMP – detector tampering control terminals;
Relay – terminals for detector connection to alarm loop;
+12V, GND – power supply terminals.

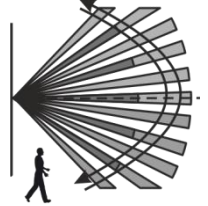
9 TEST

1) Switch on the detector power supply. The indicator will flash for a maximum of **60 seconds**.

2) To detect sensitive zones carry out **TEST-pass** across protected area with the speed of **0,3 and 3 m/sec**.

Stop upon detection (indicator lights up for **2sec**), mark position, then make a step back and continue moving.

Repeat **TEST** inversely. The sensitivity zones formed by the lens will be located in the middle between the marked positions.



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 User guide.