Astra-10 Ver.M1

Light Alerter

Operation Manual

The present operation manual is intended for studying operation principle, running conditions and maintenance of light alerter Astra-10 ver.M1 (hereinafter “alerter”) (Figure 1).
The manufacturer reserves the right to make alteration regarding refinement of the product without prior notification. All changes will be imported into new edition of the operation manual.

1 Function

1.1 The alerter is intended for light alerting about current status of an object equipped with a control panel of a fire/intrusion detection and alarming system.

1.2 The alerter is designed for continuous 24-hours operation.

1.3 Power supply of the alerter is performed by 12V $^{+3}_{-2}$ DC.

1.4 The alerter generates 2 types of alerting signals:

- **LED** indicators are **ON**;

- **LED** indicators are **OFF**;

by means of voltage supply through control panel output relay contacts or through open collector outputs.

1.5 The alerter is not considered to be a source of interference as regards similar devices, alerters of other types and purposes, as well as regards domestic radio equipment.

2 Specifications

Contrast perception of light notification
against ambient light background, Lx, min 500
Viewing angle of light perception..... 180º
Current consumption, mA, max.....15
Supply voltage, V max. from10 to15
Overall dimensions, mm 62x37x27
Weight, kg..... 0,03

Operating Conditions

Temperature range, °C..... from -30 up to +40
Relative air humidity, %..... up to 93 at +40°C
Without moisture condensation

3 Delivery Set

Light alerter Astra-10 ver.M1..... 1pcs
Screw 2-3x30 .....2pcs
Dowel 5x25 ..... 2pcs
User Instruction 1copy

4 Structure

The alerter consists of a base, printed circuit board (PCB) with radioelements, and removable cover (Figure 1).
Alerter’s design provides for possibility of installation on a wall surface.

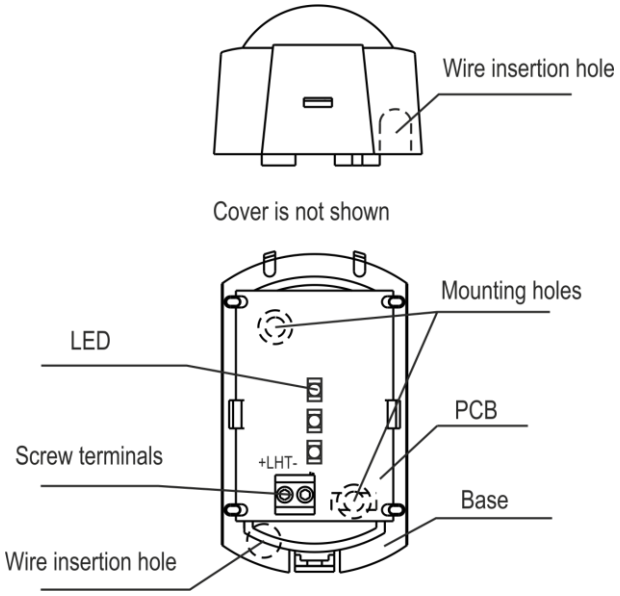


Figure 1

5 Installation and Pre-Starting Procedure

5.1 Works on installation, mounting, maintenance and operation of the alerter should be performed by qualified persons only.

5.2 After transportation in conditions differing from those of operation keep the alerter packed under supposed operation conditions for at least 4 hours.

5.3 Installation Place

- Installation on a wall surface is allowed**;**
- Installation place should **avoid exposure to sunlight**;
- Inside permanent structures the preferable places of installation are those well viewed from outside;

5.4 Installation Procedure

5.4.1 Remove the cover of the alerter by inserting a flat blade screwdriver into the slot on the side of the housing and turning the blade so as to release the latch from cover slot.
5.4.2 Unbend the hooks and remove PCB.
5.4.3 Squeeze out plugs of selected mounting holes and wire entry holes (see Figure 1).
5.4.4 Make markings on installation surface by applying the base.
5.4.5 Lead wires from power supply through wire entry holes on the base or use additional wire entry holes on the cover (see Figure 1).
5.4.6 Fasten the base on installation surface.
5.4.7 Re-install the PCB.
5.4.8 Connect power supply source’s wires to the appropriate screw terminals in accordance with selected connection diagram (figure 2):

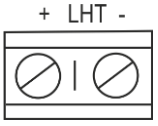


Figure 2

5.4.9 Wiring options:

- when connecting to control panel Astra-712/x – see Figure 4;
- when connecting to control panel of third party manufacturer – see Figure 3;

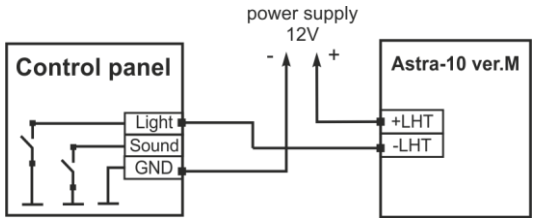


Figure 3

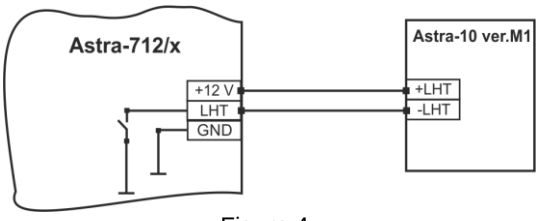


Figure 4

5.4.10 Seal hermetically the wire insertion hole to protect the alerter from ingress of dust and insects.
5.4.11 Re-install the cover.

6 Maintenance

To provide failsafe operating of an alarm system, do the maintenance works **at least one time per month**.
Maintenance of the alerter includes the following works:

- Inspection of alerter's housing integrity;
- Inspection of reliability of alerter's fixation on installation surface;
- Inspection of reliability of wire connections;
- Cleaning from contaminants;
- Inspection of alerter's operability by connecting it to a power supply source. LEDs should light on with equal brightness.

7 Labeling

On the label attached to the housing of the alerter are:

- manufacturer's trademark;
- abbreviated name of the alerter;
- firmware version;
- month (the first three letters) and year (the last two digits) of manufacture;
- conformity mark (if certificate is available);
- bar-code duplicating the textual information.

8 EC Conformity Declarations

This product is in conformity with the provisions of:

EMC 89/336/EEC

EN 61000-6-3:2005 Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments

EN 50130-4/1995 + A1:1998 + A2:2003 + Corrig. 2003 Alarm systems - Part 4: Electromagnetic compatibility - Product family standard: Immunity requirements for components of fire, intruder and social alarm systems

EN 60950-1: 2001+A11:2004+Corrig.2004 Safety of information technology equipment.

9 Recycling

The alerter is not dangerous for life and health of people and is safe for environment. On expiry of service life it should be recycled without special environment protective measures.

10 Warranty

10.1 Quality Management System meets provisions of ISO 9001-2011.

10.2 The manufacturer guarantees compliance with the technical requirements of the siren provided the customer observes the standards of operation, transportation, storage and installation of the device.

10.3 The storage warranty period is 2 years and 6 months from the date of manufacture.

10.4 The operation warranty time is 2 years from the date of operation startup but not longer than 2 years 6 months from the date of manufacture.

10.5 The manufacturer commits to replace or repair the product during the warranty period.

10.6 The warranty does not come into effect in following cases:

- in case of non-observance of this operation manual;
- mechanical damage of the product;
- repair of the alerter by any other party except the manufacturer.

10.7 The warranty is applied to the alerter only, not to equipment of third part manufacturers used jointly with the alerter.

User should keep in mind that correctly installed signalling system serves to decrease the risk of such events as larceny, robbery or fire, but not to avoid them at all.

The manufacturer bear no responsibility for death, injury, damage of property or any other kinds of accidental or premeditated damages, based on user's statement that the device failed to implement its function.

Warranty service and technical support:
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