

The perimeter protection system «SPO-10» is designed for the operative deployment of intrusion-protection on the perimeter of separate mobile communication complexes and communications centers of mobile command posts of the Armed Forces.

### Basic configuration SPO-10:

- security unit – 1;
- switching unit – 2;
- wire break sensor alarm unit – 10;
- motion sensor unit – 10;
- lighting luminaire (short-distance) – 5;
- lighting luminaire (long-distance) – 5;
- sound-and-light alarm – 1;
- battery – 4.

### Purpose:

The perimeter protection system is designed for the reception and display of the information from detecting devices (sensors) about the protective perimeter state, external lighting luminaires and sound alarm control, sensors and their connection lines monitoring.

The portable wire break sensor alarm is designed for sound and light alarm initialization at a microwire break, deployed in the field or onsite. The sensor consists of an electronic unit and a microcassette with microwire.

The alarm infrared sensor is designed for trespasser motion detection by the trespasser's infrared radiation within security area, formation of an alarm notification and its transmission to the alarm basic unit.

The Lighting luminaire is designed for illumination of the security sector. The sound-and-light alarm is designed for sound and light alarm initialization.

### The perimeter protection system «SPO-10» provides:

- monitoring of the perimeter crossover by means of deployment of up to 10 protection sectors, each of them includes 3 independent protection segments consisting of 2 portable break-wire alarm sensors, one infrared motion detectors and one lighting luminaire (short-distance and long-distance);
- connection of two remote switching units to the security unit;
- connection to each remote switch unit (in any polarity) with P-274M cable:
  - 5 lines from break-wire sensor units (each unit contains up to 2 portable break-wire alarm sensors);
  - 5 lines from motion sensor units;
  - 5 lines for lighting luminaires connection;
  - 1 line for sound-and-light alarm connection;
- switching on at actuation of one of the security sector alarm sensor; lighting luminaire and monitoring light indicator on the security unit, compatible with this security sector; sound-and-light alarm and redundant audible signal on the alarm basic unit;
- monitoring of the emergency state of the security sectors connection lines and lighting luminaires ("line short circuit", "no load") with an alarm initialization to the corresponding light indicator of the security sector on the alarm basic unit;
- plotting of the site protection diagram with a pencil on the interior side of the case cover;
- security unit deployment, remote switching units, break-wire sensors and batteries in separate impact-proof, dust-proof and moisture-proof containers (cases).

### Operational conditions:

- security unit reliable operation at the ambient temperature from -10 to + 40°C and relative air humidity up to 98% at the temperature 25 °C;
- reliable operation of sensors, lighting luminaires and alarms at the ambient temperature from -40 to +50°C and relative air humidity up to 98% at the temperature 25 °C.

### Power supply:

- from AC network of 230V voltage, 50Hz frequency;
- from AC power supply of 27V voltage;
- from external battery of 24V voltage.

**Serial production has been realized since 2015.**



**DIAGRAM**  
**of the protection deployed mobile unit perimeter,**  
**using the perimeter protection sector SPO-10**

