

SAPLAS 2C-8L



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The SAPLAS 2C-8L system is designed for individual protection of armored or non-armored vehicles (ICVs, APCs) against armament systems that use laser illumination. The system is designed for less than 6 meters length vehicles.

The SAPLAS system ensures the following functions:

- it detects laser illumination, determines the direction and the type of the risk source;
- the equipment ensures timely warning of danger imminence by displaying the direction of the threat and specific symbols on the LCD screen of the system. It also renders sound in order to warn the crew against laser illumination action.

The system allows the armored vehicle commander to undertake the necessary defensive maneuvers: performing elusive actions and/or using smoke generator (optional).

STRUCTURE:

2 heads with laser sensors installed on the right and left side of vehicle;
Processing Display and Command Unit – UPAC ;
Connection cables.

CHARACTERISTICS:

- **Wavelength range:** 900÷1700 nm;
- **Repetitive irradiation frequency range:** 5÷1000 Hz;
- **Detection angles:**
 - Horizontal: 360°;
 - Vertical: -5°÷ 90°;
- **Detection resolution:** 30°/15°;
- **Number of the laser sensors:** 8/14;
- **Max. number of the displayed laser illumination directions:** -12/24;
- **Type of displayed symbols:**
 - 2 for the utilized laser threat type (a single pulse or pulse trains);
 - 2 for the type of illumination source (terrestrial or aerial);
 - 2 for the smoke generator status (loaded or empty);

- **Specific information:**
 - Supply voltage values;
- **Detection distance:**
 - 800÷5000 m (for a standard laser rangefinder with 10 mJ pulse power and 20 ns pulse length).
- **Supply voltage:**
 - 18-32 Vcc (from the battery of the vehicle);
- **Consumed power:** max. 25W
- **Environmental conditions:**
 - Operation: -40°C ÷ +49°C;
 - Storage: -50°C ÷ +60°C;
 - Relative humidity: 95% ±3% at a temperature of 40°C;
- **Response time:**
 - Max. 500 ms. between detection of laser impulse and warning signal.
 - The equipment ensures digital filtering in order to eliminate parasitic signals and false alarms;
 - Digital acoustic warning signal (optical warning is optional);
 - RS442 serial interface for an external system.



ELECTRO OPTIC COMPONENTS

171A Atomistilor street, Magurele, ILFOV, 077125, ROMANIA
www.electro-optic.ro • office@electro-optic.ro • Tel./Fax: +4.021.457.45.92

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