

SOL-2

The SOL-2 Laser Radiation Warning System is designed to detect, warn and protect the vehicle (object) against laser radiation generated by target pointers and laser rangefinders from a distance of up to approx. 12 km (depending on the power of the source). SOL-2 makes it possible to determine the direction from which the radiation is coming.

SOL-2 can be installed on mobile platforms (land and sea).



SOL-2 cooperates with grenade/smoke missile launchers used to put up a smoke screen. It enables the activation of the smoke screen system upon receipt of a radiation signal either automatically or manually.

When a threat is detected, the system generates graphic, acoustic and light alarms.

SOL-2 is integrated with local communications/management system, alerting the crew about laser radiation and its direction. Integration with vehicle systems is ensured via Ethernet, RS232/RS485 or CAN bus interfaces.

SOL-2 transmits information about threats to BMS-type master systems.

FEATURES

- Detection of laser radiation
- Automatic, semi-automatic and manual handling of smoke grenade launchers
- Handling hatch opening sensors
- Integration with the vehicle intercom system
- Sending information about threats
- Efficiency self-test system

ELEMENTS OF THE SYSTEM

- Control unit (installed inside the vehicle)
- Detection heads (installed outside the vehicle)

Company website



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PARAMETERS	VALUE
Detection of radiation sources with wavelength of	0.6 - 1.7um
Detection range in horizontal plane	0° - 360°
Detection range in vertical plane	-30° - +90°
Detection range of laser radiation sources	0 - 12 km
Probability of detection of radiation	At least 0.95
Number of heads supported	Max. 10
Number of smoke grenade launchers supported	Max. 24
Angular accuracy of source location	15° - 60°
Supply voltage	18 VDC - 32 VDC
Power consumption	Less than 5A/27V



SOL-2 SYSTEM CONTROL UNIT

The Control unit of the system is installed inside the vehicle. It is equipped with a screen showing the current threats detected by the system. The Control unit has easily accessible keys for controlling the system and issuing commands in response to a threat.

The space around the vehicle is divided into 24 horizontal sectors and 3 vertical sectors. These are depicted on the screen as three concentric rings.



SOL-2 SYSTEM HEAD

The system heads are installed outside the vehicle. Each of them consists of 6 laser radiation detectors. This allows the head system to detect threats in a range of 360° horizontally and from -30° to 90° vertically.

The radiation detected by the head activates the system alarm, and the direction of the radiation in relation to the vehicle is visualized on the system's Control unit.

Product website



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