



SSP-1 "OBRA-3"

LASER WARNING SYSTEM

SSP-1 Laser Warning System is designed for detection of vehicles and military objects' radiation from impulse rangefinders or laser illuminators. The system can fire smoke-screen towards the direction of detected laser radiation in cooperation with smoke grenade launchers.



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SSP-1 System can update the direction of detected radiation taking into consideration movement of the vehicle or its turret, can eliminate indications from the reflected radiation and gives possibility to communicate with fire control system or other vehicle systems. The system has an optical and acoustic signal system of detected radiation, identifying laser source type, time elapsing from the beginning of radiation laser source direction. The system is adapted to firing smoke grenades in the following modes: manual, semi-automatic, automatic. Depending of OBRA units arrangement inside the vehicle it can be operated by any crew member. When the additional display desk is used the second member of the vehicle crew can observe the system indications.

Main functional features:

- locking system that prevents firing smoke grenades when the tank hatch is open,
- „OBRA-3“ system identifies the reflected signal sent from own laser rangefinder, eliminating the possibility of error,
- very wide range of detected radiation - $0.6 \mu\text{m} - 11 \mu\text{m}$.

The system comprises:

- 4 - 8 identical detector heads (depending on the size of the vehicle or object),
- display-control panel,
- electronic block with the direction update function,
- connecting cables,
- a set of smoke grenade launchers (does not occur in PCO SA completion).



Technical Specifications



Number of detection heads	from 4 to 8
Spectral range of detected radiation sources	$0,6 \mu\text{m} \div 11 \mu\text{m}$
Detection angular range in the vertical plane	$-6^\circ + 30^\circ$
Detection angular range in the horizontal plane	360°
Number of detected directions	20 sectors x 18°
Number of smoke grenade launchers	up to 24
Voltage supply	$18\text{V} \div 30 \text{ V}$
Power consumption	2,4 A
Operating temperature range	from -30°C to $+55^\circ\text{C}$.
Head's weight	1,2 kg
Electronic units weight	5,6 kg
Number of smoke grenade launchers	2,1 kg