



**ARES FIRE AND
SAFETY SYSTEMS LLC**

**LASER WARNING AND SMOKE
GRENADE SYSTEMS**

AFSS LASER WARNING AND SMOKE GRENADE SYSTEM

Laser warning systems are the systems used for detecting laser guided threats, classifying these threats and taking precautions against these threats on military vehicles or sea platforms. The systems consist of laser warning sensors, control units and smoke grenade launcher systems.

On these systems, when laser threats at NATO Stanag 3733 standard, mark the platform used with a laser or target it with laser, the systems analyse incidence angle, incidence direction of laser and the class laser belongs to within maximum 500 milliseconds, and after this analysis the system launches smoke grenade by smoke grenade launchers and creating a smoke fog gets away from the laser threat.

These systems can make detection on 4 different bands including band I, band II, band III and band IV.



LW 1000 LASER DETECTOR SENSOR



- Laser detectors detect, classify and determine 24 different Laser code and frequencies of laser-guided antitank threats within 50 milliseconds. Besides, LW1000 can detect more than one threats simultaneously.
- It is safeguarded against false alarms such as sunlight, remote controller, hand laser as per NATO AEP 3733 standards. It has successfully passed high temperature, low temperature, high humidity, shock-vibration and EMI/EMC tests as per MIL STD 810H, MIL STD 461F and MIL STD 1275E standards.

TECHNICAL SPECIFICATIONS

» Wave Length Range Band I	0.5 μm - 1.1 μm
» Wave Length Range Band II	1.1 μm - 1.65 μm
» Wave Length Range Band III	0.8 μm - 1.1 μm
» Wave Length Range Band IV	8-12 μm (optional)
» Response Time	Max. 500ms
» Threat Classification	Laser Distance Meter (LDM) Laser Target Designator (LTD) Laser Guidance Beam (LGB)
» Detection Possibility	LDM (Band I-II-III): %95 LTD (Band I-II-IV): %95 LGB (Band III-IV): %99
» Detection Sensitivity	10-20 (W/m ²)
» Vertical Section Sight Range	(-20 °) – (+ 70 °)
» Total Azimuth Visual Angle	100° / Unit
» Communication System	Canbus (J-1939)
» Water and dust ingress protection	IP67
» Operating Temperature	-40°C / +60°C
» Storage Temperature	-55°C / +85°C
» Salt Fog Resistance	800 hours
» Laser Detection Resolution	$\pm 1^\circ$
» Power Consumption	120 mA \pm 50 mA @24 VDC Nominal
» Weight	1.8 \pm 0.5 kg