

ARMoured VEHICLE FIRE DETECTION AND SUPPRESSION SYSTEM [FIR-SUP-3W]



System Description

Armoured vehicle fire detection and suppression system (FIR-SUP-3W) is a best solution for APC, tanks, military vehicles to protect military personnels' lives and vehicles

System consists of fast detecting optical detectors, control unit and fire extinguishing bottles which are very fast reacting to detected plasma penetration and explosion.

The control unit can accommodate several optical detectors and fire extinguishing bottles for the specific vehicles / environments.

This system is a collaboration R&D and production of "Institute of Industrial Control Systems (IICS) - PAKISTAN" and "Teksav Teknoloji (TEKSAV) -TURKEY".

**TRIPLE
WAVE**

Operation

When optical detectors sense a possible threat, in an ultra fast reacting way, control unit activates extinguishing bottles to release agent, warns personnel and suppress the fire/explosion immediately. (less than 25 ms)

After activation starts, with the help of warning outputs, personnel will have time to evacuate.

**ULTRA
FAST**



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Main Features

- State of the art technology
 - SMT (surface mounted technology)
 - High reliability components applied
- Fast detection and fast reacting fire suppression
 - 3 ms detection,
 - 5 ms activation,
 - in 25 ms %75 release of agent is completed
 - Fastest activation of discharge
- Distribute agent over largest possible volume as fast as possible
- Modular design
- Fast acting pyrovalve technique
- Economical but high quality production
- Immune to sunlight, heat sources and visible light sources.
- System and all parts have self-test function(all times BIT check)
- Immune to friendly fires such as cigarette lighters at distances great
- Light weight and rugged design
- Event logging and read out
- Heart beat
- Compact and robust metal housing.
- Compliance with military standards:
 - MIL-STD-810F, 461E, 464 , 1275, NATO standards (STANAG)
- ISO9001 quality assurance scheme is applied.

Technical Specifications

- The detector is supplied from a 24 V_{DC} supply and consumes less than 8mA
- Low power consumption
- Triple IR spectrum detection : UV, NIR SWIR, MWIR
- Wide operating voltage range : 10 - 34V
- Uncooled and un-biased (HV) sensors
- Proportional algorithm with DSP
- CAN-LIN bus communication
- Power surge protection and noise filtering
- Montreal agreement approved extinguishing agents FM200 , FM36