

Warhead Initiation Module

FEATURES

- High voltage arming to 3000 VDC
- Firing controller interface for precision sequenced firings
- Remote module up to 18 feet from the S&A
- 135-volt discrete interface for triggering
- 500-VDC isolation between trigger and HV returns and case ground
- Automatic safing in one minute by passive bleed-down for EOD and test
- Maintenance-free
- Lightning and ESD tests
- Passed qualification tests
- Meets U.S. ESAF guidelines
- Machine screw mounting
- 100% ESS on all units
- Convection cooling

The L-3 Communications, Electrodynamics (L-3/EDI) EFI Warhead Initiation Module (WIM) receives arming energy and triggering signals from the missile, and uses them to arm and fire one high explosive output. The vehicle's high-voltage safe/arm device arms the WIM. The WIM receives the trigger signal and initiates firing with short function time. An Exploding Foil Initiator provides a shock output.

The WIM self-disarms to a safe voltage after one minute with no arm voltage applied.

The WIM is suitable for use in a bomb or missile environment. It contains a firing capacitor, bleed resistor, trigger transformer, triggered switch and one Exploding Foil Initiator.

This highly reliable environmentally sealed unit has no moving parts or adjustments. Module arm and disarm tests can be performed nondestructively. A telemetry interface is provided for tests. The unit cools itself by convection.

The WFM was developed for the Javelin Missile System but can be easily adapted to other systems.

The design of the WFM permits easy reconfiguration to new applications and explosive train adaptations. L-3/EDI can provide a high-voltage S&A to arm and fire the WIM from available environments.

L-3 Communications, Electrodynamics, a leader in solid state safe/arm technology, also produces electromechanical and electronic S&As for missiles, bombs, mines, artillery and torpedoes.

Warhead Initiation Module

DESIGN

MIL-STD-331—fuze testing
MIL-STD-454—general
MIL-STD-461—EMI
MIL-STD-810—environmental test
MIL-STD-1316D—fuze safety
MIL-STD-2000—soldering
MIL-I-23659—initiator



SPECIFICATIONS

Size: 43.86 mm dia. x 18.4 mm deep

Weight: 58 grams remote module, including 18" cable

Color: Natural metallic color

Power:

All-fire: 2100 VDC

No-fire: 500 VDC

Function Time: 3 microseconds maximum.

Output: 10 mil-dent in steel initiates PIC or det cord directly

Reliability: High

