

THIRD EDITION



**NEXT GENERATION  
ELECTRONIC MORTAR TIME FUZE**

Accurate

Safe

Reliable

Delivers Top Performance!

**LAMBDA** **M760**

Lambda M760, the highly accurate electronic mortar time fuze

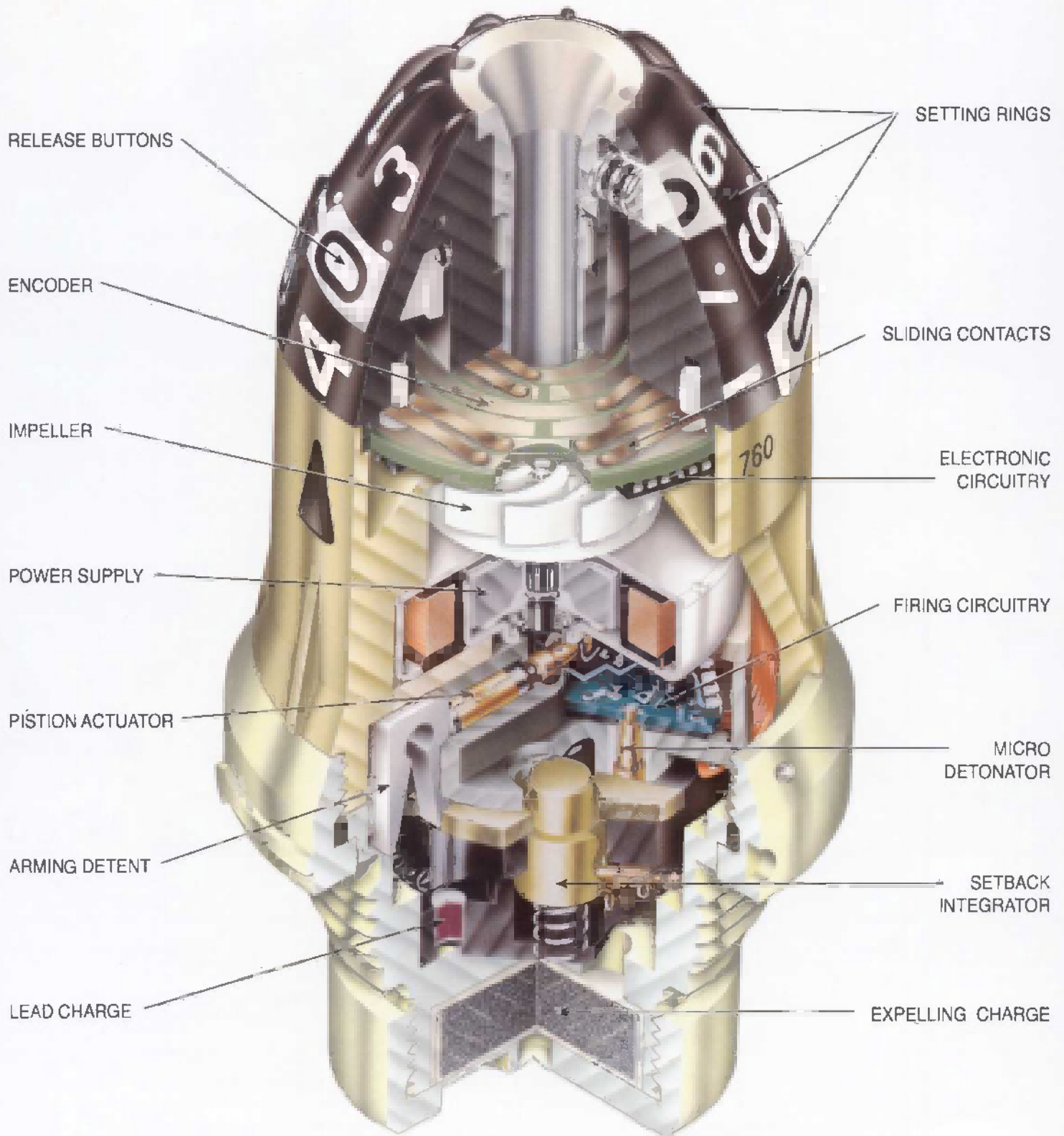
Accuracy is better than 0.1 sec. over the entire range

**PROVIDES OVERHEAD SAFETY**

- Wide compatibility • simple, manual time delay setting without tools
- point detonation settable • meets all MIL-STD-1316D safety requirements

# LAMBDA - M760

## Electronic Time Fuze for Mortar Rounds



# TECHNICAL SPECIFICATIONS

## COMPATIBILITY:

60mm, 81mm, 82mm, 120mm and 160mm mortar rounds, at all charges, muzzle and terminal velocities.

**Expelling mode -** for smoke, illuminating and cargo carrying rounds (as bomblets, AT or AP mines, SADARM, etc.)

**Detonating mode -** for HE and WP smoke rounds.

**Replacement for:** DM93, M776 EE81-W100.  
W/adaptor: M84A1, FB338, M772, FH55, FH18B.

## OPERATION MODES:

Time delay, point detonating.

## TIME DELAY SETTING:

Manually operating (no tools required).  
3.0 to 99.8 sec. x 0.1 seconds increments.

## POINT DETONATING:

Settable, when 99.9 second setting is selected.

## SETTING SYSTEM:

Digital setting.  
Positive self-locking by three setting rings.  
Unlimited setting times.

## ACCURACY:

Better than 0.1 seconds.  
Standard deviation time delay, less than 0.1 second.

## POWER SUPPLY:

Air driven alternator.

## ARMING:

**By two environmental signatures:**

**Set back:** Acceleration of 400 g minimum, for 1 msec duration minimum.

**Sustained air flow:** 30 m/sec minimum.

## SAFETY:

**Missequencing:** Prevents arming of the fuze whenever arming condition of "air flow" precedes arming condition of "set back".

**Overhead Safety:** Provides arm time of 0.2 seconds prior to set time (at time mode). 2 seconds of flight time (at PD. mode).

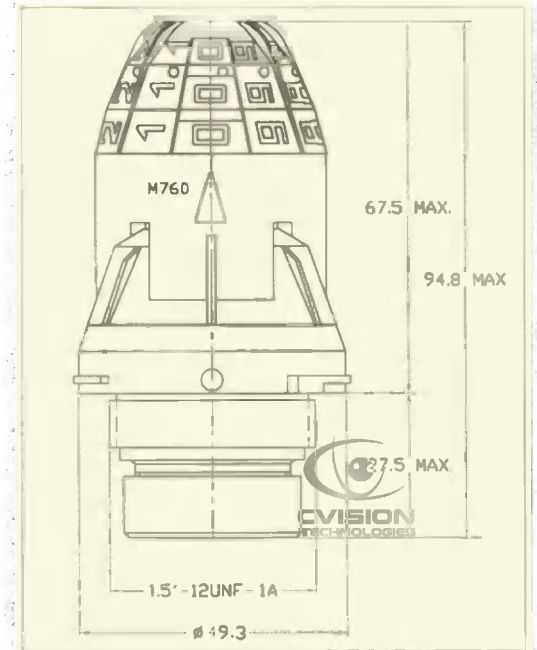
**Double loading:** The fuze will not function in bore at a double loading event.

**Shorted Electric Devices:** The electric detonator is shorted until arming is completed.

**Safety pull wire:** No use of safety pull wire.

## HUMAN ENGINEERING:

The setting system, the push release buttons, and the marking are designed in accordance with human engineering requirements.



## EXPLOSIVE OUTPUT:

**Igniting/Expelling mode fuze:** 3 gr of black powder.  
**Detonating mode fuze:** 7 gr of CH-6 booster pellet.

## TEMPERATURE LIMITS:

**Operation:** from -46°C to +63°C.  
**Storage:** from -54°C to +71°C.

## PHYSICAL DESCRIPTION:

**Overall length -** 94.8 mm  
**Cross section diameter -** 49.3 mm  
**Intrusion size -** 27.5 mm  
**Standard thread size -** 1.5"-12 UNF-1A (can be changed upon customer request).  
**Weight -** 290 ± 25 gr.

## MILITARY STANDARDS:

**MIL-STD-331B** Environmental and performance tests for fuze and fuze components.  
**MIL-STD-333B/STANAG 2916** Fuze, projectile and accessory contours.  
**MIL-STD-1316D** Fuze design safety criteria.  
**STANAG 4187** Fuzing system-safety design requirements.