The MR742 Electronic Time Mortar Fuze is highly accurate and reliable. Compatible with a wide range of calibers, the MR742 has a simple, inductive time setting.
MR742 Mortar Electronic Time Fuze

Compatibility
60mm, 81mm, 120mm mortar bombs, at all charges, muzzle and terminal velocities. Expelling mode - for smoke, illuminating.

Operating Modes
Time delay, point detonating. Electromechanical impact back-up.

Time Delay Setting
3.0 to 99.8 seconds x 0.1 second increments.

Point Detonating
Settable, when 99.9 seconds setting is selected. Super quick function.

Setting System
Inductive setting system by a fuze setter ST742, using inductive technology. Unlimited setting storage time.

Arming
By two environmental signatures:
Set back force: Acceleration of 400g minimum, for 1 m/sec duration minimum.
Sustained air flow: 30 m/sec minimum.

Safety
Miss-sequencing: Prevents arming whenever "air flow" arming conditions precede "set-back" arming conditions.
Arming Distance: 100m from muzzle.
Double loading: The fuze will not function in bore at a double loading event.
Shorted Electric Detonator: The electric detonator is shortened until arming.
Safety pull wire: No use of safety pull wire.

Temperature Conditions
Operation: From -40°c to +63°c
Storage: From -46°c to +71°c

Physical Description
Overall length: 94.8mm
Insertion size: 27.5mm
Cross section diameter: 49.3mm
Standard thread size: 1.5"-12 UNF-1A
Weight: 0.3kg

Military Standards
MIL-STD-331: Environmental and performance tests for fuze and fuze components.
MIL-STD-1316: Fuze design, safety criteria.
STANAG 4187: Fuzing system - safety design requirements.

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

Power Supply
Air driven alternator.

Explosive Output
3g black powder.

About Reshef Technologies
Reshef Technologies obtains three decades of experience in the development, design and production of electronic fuzes for artillery, mortar, tanks, rockets and loitering munitions.
Reshef Technologies is the main supplier of these battle proven fuzes to the Israeli Defense Forces (IDF) - one of the world's most advanced armed forces.