

# M782 Multi-Option Fuze for Artillery (MOFA)



M782 is the Army's newest-generation, NATO standard, all purpose artillery fuze for bursting munitions

The M782 is an inductively set proximity, time, delay after impact, and point detonating (PD) fuze. It is operable with all existing and developmental artillery systems (105mm and 155mm). It is operable with all bulk-filled projectiles, such as high-explosive rounds or illuminating rounds.

## Features and Benefits

- Replaces existing proximity, point-detonating, and time fuzes for bursting munitions
- Faster setting (<1.5 seconds inductive set) and fewer setting errors
- Improved height-of-burst (HOB) accuracy: >95 percent lethality regardless of terrain or firing conditions
- Improved time accuracy: 0.1-second increments to 199.9 seconds
- Improved battery performance: exceeds 200-second operational life by more than 100 percent
- Increased reliability because of robust design and improved producibility: >97 percent in Time, Point Detonation and Delay modes; >95 percent in Proximity mode
- Innovative electronics packaging and flex circuitry, reduced parts and interconnects
- Survivable against all known ECM threats

## MOFA Function Modes

- Point Detonating (PD) Impact – Functions on target impact in Point Detonating Super Quick mode
- Delay Time – Functions after target impact in Delay mode (time = 5 to 10 msec)
- Proximity Distance – Functions 9 to 10 meters HOB (height of burst) over normal terrain
- Electronic Time – Functions at preset time from 0.5 seconds to 199.9 seconds in 0.1 second increments. Backup mode is PD impact
- Inductive Auto Set – Set in <1.5 seconds for all modes using fuze auto setter. Meets all STANAG 4369 requirements

## Performance Characteristics

- Artillery Round Interface – all 105mm and 155mm projectile with bursting munitions
- Gunfire Environment – 30,000 g's maximum; 30,000 rpm maximum
- Mission Duration – 50 kilometers maximum; 200 seconds maximum
- Minimum Arming Distance – 105mm = 45 meters, 155mm = 65 meters
- Height-of-burst Accuracy – All HOBs in 95 percent lethality range regardless of terrain or firing conditions
- Time Function Accuracy – 0.1-second accuracy to 50 kilometers
- Post-launch Power Supply – Activation at launch; 35 mAhr capacity
- Weight – 1.85 lb max
- Length – 5.97 in. max
- Diameter – 2.420 in. max
- Safety – MIL-STD-1316 compliant. Features two safety locks – setback and spin
- Reliability – Time, Point Detonating and Delay modes >0.97, Proximity mode >0.95
- Storage Life – 20 years controlled; 2 years uncontrolled
- Program Status – Type Classified Standard, Materiel Released, and in high volume production

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