We are your bomb and missile fuzing solution.
We are Kaman.

FMU-152A/B

Multi-function hard target/soft target bomb fuze system compatible with U.S. and NATO aircraft

860-632-4521
KamanFuzing.com
fuzing@kaman.com
Compatibility

- Compatible with most U.S. Air Force, Navy, Marine Corps and NATO aircraft
- Compatible with most in-service JDAM and Enhanced Paveway™ weapon guidance kits, tail kits, high-explosive bombs, and reduced collateral damage weapons
- Compatible with UAV deployment

Main features

- All arming and detonation event functions combined in a single fuze system
- Two independent arming rotor locks to ensure high safety integrity
- Dual independent launch signals and environmental sensing
- Fully developed, qualified and in full-rate production at two manufacturing sites
- Annual production capacity > 25,000 units
- High altitude release capability
- Low speed release capability
- Automatic retard deceleration recognition
- RS422 interface compatible with JDAM and Enhanced Paveway™ weapons
- 10-year service life and 20-year shelf life
- Operational reliability in the field > 99%
- Meets safety criteria of MIL-STD-1316D

Functions

- Proximity (via DSU-33 series and others)
- Proximity plus delay (DSU-33 series and others)
- Impact “0” delay
- Post impact delays - short
- Post impact delays - long

System description

The FMU-152A/B Bomb Fuze is a multi-function hard/soft target fuzing system developed for use by both the U.S. Air Force and the U.S. Navy in the MK80 series, BLU-100 series, and in conjunction with High Drag and Low Drag Tail Kits.

In addition to impact/post-impact delay, the fuze is capable of accepting a signal from a separate proximity sensor (e.g., DSU-33 series, DSU-38/B, and DSU-40/B).

Key features

Key features of the FMU-152A/B include:
- Ease of installation and preparation for flight
- Compatibility with proximity sensor fire signal
- Ability to sense a high-drag delivery
- Ability to manually set the arming and event times prior to take-off, or electrically set them by cockpit selection prior to bomb release via FFCS or via the MIL-STD-1760/RS422 interface.

The FMU-152A/B fuze is a multi-function, electronically programmable hard/soft target fuzing system. The fuzing system consists of a cylindrical fuze and a closure ring in the U.S. Navy application.

In the U.S. Air Force application, power is provided by the FZU-63/B (or FZU-55A/B) air-driven turbine alternator, which is lanyard activated upon release from the aircraft.

In the U.S. Navy application, power is transmitted to the fuze from the AN-AWW series Fuze Function Control Set (FFCS) at release from the aircraft.

FMU-152A/B has passed the appropriate environmental tests of MIL-STD-331 and MIL-STD-810D.
### Performance characteristics

|---------------------|---------------------------------------------------------------|-----------------------------------------------------|
| **Arming Time - High Drag** | 2.0, 2.6, 3.0, 4.0, 5.0 seconds | 2.6 sec Arm/Instant (+300 vdc)  
2.6 sec Arm/Instant (-300 vdc)  
2.6 sec Arm/Delay per Switches (+195 vdc)  
2.6 sec Arm/Delay per Switches (-195 vdc) |
| **Arming Time - Low Drag** | 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5  
9, 9.5, 10, 14, 21, 25 seconds | Arm per Switches/Instant (+300 vdc)  
5.5 sec Arm/Instant (-300 vdc)  
Arm per Switches/Delay per Switches (+195 vdc)  
5.5 sec Arm/Delay per Switches (-195 vdc) |
| **Detonation Delay Times** | Instantaneous, 5 ms, 15 ms, 25 ms, 35 ms, 45 ms, 60 ms, 90 ms, 180 ms, 240 ms, 15 min, 30 min, 45 min, 60 min, 4 hrs, 8 hrs, 12 hrs, 16 hrs, 20 hrs, 24 hrs | See above |

#### Reliability
In excess of 95% (specification), in excess of 99% (operational)

#### Power Supply
FZU-55A/B or FZU-63/B  
FFCS at Release

#### Mission Duration
Up to 10 minutes

#### Weapons
MK80 series, BLU-100 series, Low Drag and High Drag Tail Kits, all JDAM and Paveway Kits

#### Aircraft
Most U.S. and non-U.S. (NATO) Ground Attack Aircraft (F-15, F-16, F-18, F-22, F-35, F-111, B-1, B-2, B-52, Mirage 3, Gripen, Tornado, Typhoon, AV-8, A-10); MQ-9 UAV

#### Setting Compatibility
Manual & from cockpit via MIL-STD-1760/RS-422 Interface and JDAM/Paveway kits  
From cockpit via FFCS

#### Shelf Life
20 years

#### Service Life
10 years

#### Operating Temperature
-54°C to +71°C

**Note:** All Arm / Delay settings listed available via MIL-STD-1760/RS-422 interface. Bold indicates those settings via control panel switches.

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<tr>
<th>Description</th>
<th>Nomenclature</th>
<th>Part No.</th>
<th>NSN No.</th>
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*Available separately for spares*
Typical weapons applications

Gravity bomb
- HOB sensor
- General purpose warhead
- FMU-152A/B fuze
- FZU-63/B initiator

GPS-guided gravity bomb
- HOB sensor
- General purpose warhead
- FMU-152A/B fuze
- FZU-63/B initiator
- JDAM GPS tail

Laser-guided gravity bomb
- Nose guidance unit
- General purpose/penetrator warhead
- FMU-152A/B fuze
- FZU-63/B initiator
- Stabilization tail

GPS-guided penetrator gravity bomb
- Penetrator warhead
- FMU-152A/B fuze
- FZU-63/B initiator
- JDAM GPS tail

GPS/INS dual-mode laser-guided gravity bomb
- Nose guidance unit
- General purpose/penetrator warhead
- FMU-152A/B fuze
- FZU-63/B initiator
- Stabilization tail

GPS/INS and laser-guided gravity bomb
- DSU-38/B, DSU-40/B or DSU-42/B Laser Detector
- General purpose warhead
- FMU-152A/B fuze
- FZU-63/B initiator
- JDAM GPS tail