

FMU-152A/B Bomb Fuze System

SYSTEM DESCRIPTION

The FMU-152A/B Bomb Fuze, manufactured by Kaman Precision Products, is a multifunction hard/soft target fuzing system developed for use by both NAVAIR and the UASF in the MK80 series, BLU-109, BLU-110, BLU-111, BLU-113, BLU-117, BLU-122 and in conjunction with JDAM and Paveway weapon kits and with High Drag and Low Drag Tail Kits.



PERFORMANCE CHARACTERISTICS

Parameter Settings	NAVAIR & USAF applications with FZU-55A/B	NAVAIR applications FFCS/MK122 safety switch
Arming Time—High Drag	2.0, 2.6, 3.0, 4.0 & 5.0 seconds	2.6 sec Arm/Instant (+300vhdc) 2.6 sec Arm/Instant (-300 vdc) 2.6 sec Arm/Delay per Switches (+195vdc) 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	5.5 sec Arm/Instant (+300vdc) 5.5 sec Arm/Instant (-300 vdc) 5.5 sec Arm/Delay per Switches (+195vdc) 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, 4hrs, 8 hrs, 12 hrs, 16 hrs, 20 hrs, 24 hrs	See above
Reliability	In excess of 98% (design), in excess of 98% (operational)	
Power Supply	FZU-55A/B	FFCS at release
Mission Duration	8 min	
Aircraft	MK82, MK83, MK84, BLU-109, BLU-110, BLU-111, BLU-113, BLU-117 & BLU-122 Bombs, Low & High Drag, all JDAM and Paveway Weapons Kits	
Setting Compatibility	Manual & from cockpit via MIL-STD-1760/RS422 Interface & JDAM/Paveway Kits	From cockpit via FFCS
Shelf Life	20 years	
Service Lice	10 years	
Operating Temperature	-54°C to +71°C	

Note: Multiple times available via MIL-STD-1760/RS422 interface, BOD via control panel switches

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Part Number: FMU-152A/B

Main Features:

- » Compatible with most in-service weapon guidance kits, tail units and high-explosive bombs
- » Interchangeable with FMU-139C/B bomb fuzes
- » 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
- » High altitude release capability
- » Automatic retard deceleration recognition
- » RS422 interface compatible with JDAM and Paveway weapons
- » 10 year service life and 20 year shelf life
- » Operational reliability in the field is greater than 98%
- » Compatible with UAV deployment
- » Meets safety criteria of MIL-STD-1316D



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