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 fuze system developed for use by both NAVAIR and the USAF 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

<table>
<thead>
<tr>
<th>Parameter Settings</th>
<th>NAVAIR &amp; USAF applications with FZU-55A/B</th>
<th>NAVAIR applications FFCS/MK122 safety switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arming Time–High Drag</td>
<td>2.0, 2.6, 3.0, 4.0 &amp; 5.0 seconds</td>
<td>2.6 sec Arm/Instant (+300vdc)</td>
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<tr>
<td></td>
<td></td>
<td>2.6 sec Arm/Instant (-300 vdc)</td>
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<tr>
<td></td>
<td></td>
<td>2.6 sec Arm/Delay per Switches (+195vdc)</td>
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<tr>
<td></td>
<td></td>
<td>2.6 sec Arm/Delay per Switches (-195 vdc)</td>
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<tr>
<td>Arming Time–Low Drag</td>
<td>4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 11, 14, 21 &amp; 25 seconds</td>
<td>5.5 sec Arm/Instant (+300vdc)</td>
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<tr>
<td></td>
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<td>5.5 sec Arm/Instant (-300 vdc)</td>
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<tr>
<td>Detonation Delay Times</td>
<td>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</td>
<td>See above</td>
</tr>
</tbody>
</table>

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 Weapon Kits

Setting Compatibility Manual & from cockpit via MIL-STD-1760/RS422 Interface & JDAM/Paveway Kits

From cockpit via FFCS

Shelf Life 20 years

Service Life 10 years

Operating Temperature -54°C to +71°C

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

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