



THE VALUE OF PERFORMANCE.

NORTHROP GRUMMAN

DSU-33D/B Proximity Sensor

The DSU-33D/B proximity sensor is an all-weather, battery-operated, active, radio frequency, ranging radar. It provides proximity detonation of general purpose aerial bomb warheads at a fixed height-of-burst. It is a single-mission device capable of operating in an electronic countermeasure environment. It supports many delivery modes including single, multiple and high or low drag releases.

Applications

The DSU-33D/B proximity sensor is used by the U.S. Air Force and U.S. Navy with the M117 and the MK80 series warheads, including JDAM variants. The sensor is compatible with the FMU-139 and FMU-152 series bomb fuzes, as well as the FZU-48, -55, and -63 initiators. The DSU-33D/B sensor is supplied with a pre-installed filtered power cable.

Qualification and Production Data

- Qualified – February 2008
- Production started in 2008
- Sensors delivered – More than 54,000

Product Features and Benefits

- Safely operates the fuze only under specified conditions
- Advanced, current solid-state electronics
- Accurate and consistent height-of-burst
- Resistant to electronic countermeasures (ECM)
- Robust design and extensive factory testing assures reliability
- Meets all U.S. Air Force and U.S. Navy requirements
- Flexible design allows user to mate sensor with desired fuze and warhead

Specifications

Technical Data

Weight: <5 lb (<2 kg)
Delivery modes: Drop: Single or multiple
Salvo: 6-bomb simultaneous release
Ripple: 24-bomb release
LOFT/TOSS and lateral TOSS
High or low drag
Power supply: Battery initiated by FZU-48 initiator,
FMU-152/B fuze, FZU-55/B initiator
or Navy FFCS

Performance Data

Air speed: 250 to 700 KCAS
Delivery altitude: 200 to 50,000 ft (60.96 to 15.24 m)
Height of burst: 14 to 26 ft (4.27 to 7.92 m)
Closing velocity: 75 to 1400 ft/sec
(22.86 to 426.72 m/sec)
Reliability: 95 percent after 10 years
Operational life: 200 seconds (min)
Shelf life: 10 years (min)
Service life: 5 years (min)



DSU-33D/B proximity sensor

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