



DSU-33D/B

Proximity (Height-of-Burst) Sensor

OVERVIEW

The DSU-33D/B is the “Standard” for proximity sensors. It is an all-weather, battery operated, frequency modulated continuous wave (FMCW) doppler radar ranging sensor. The DSU-33D/B provides Height-of-Burst capability to JDAM (or similar) bombs and general purpose (GP) bombs. It is capable of operating in an electronic countermeasure environment. These capabilities increase the effectiveness of the weapons and decreases the number of munitions required for a given target set. The DSU-33D/B's longer battery life also allows for increased delivery altitudes and ranges providing improved stand-off capability. Northrop Grumman is the sole producer of the DSU-33D/B with greater than 200,000 units delivered.

APPLICATIONS

The DSU-33D/B is integrated on several platforms (F-16, F-15, F-18, AV-8B, and Eurofighter), and is compatible with JDAM (or similar) and MK-80 series (or similar) weapons and support numerous delivery modes/options to include high/low drag employment.

The DSU-33D/B is designed to be compatible with Fuzes (FMU-139s, FMU-152) and FZU initiators (FZU-48/55/63).

FEATURES & BENEFITS

- Exportable: DCS or FMS
- Engage multiple targets with a single weapon
- Supports increased stand-off capability with extended battery life (>200 sec)
- Meets all U.S. Air Force and U.S. Navy requirements
- Safely operates the fuze only under specified conditions
- Advanced, current solid-state electronics
- Accurate and consistent height-of-burst (preset at factory)
- Resistant to electronic countermeasures (ECM)
- Flexible design allows user to mate sensor with desired fuze and warhead



DSU-33D/B proximity sensor



TECHNICAL DATA

Weight: <5 lb (<2 kg)
 Delivery Modes: Single/Multiple
 Salvo: 6-bombs
 Ripple: 24-bombs
 Loft/Toss: Yes
 Hi/Low Drag: Yes
 Power Supply: Battery Initiated by:
 • FZU-48/55/63
 Fuze Compatibility: FMU-139s & FMU152s

PERFORMANCE DATA

Airspeed: 250 - 700KCAS
 Release Altitude: 200' - 50,000' (60.96 to 15,240m)
 Height of Burst (Factory Preset): 14' - 26' (4.27 - 7.92m)
 Closing Velocity: 75 - 1400 ft/sec (22.86 - 426.72m/sec)
 Reliability: >95% after 10 years
 Operational Life: 200 sec minimum
 Shelf Life: 15 years (min)
 Service Life: 5 years (min)

PRODUCT PACKAGING & LOGISTICS

- DSU-33D/B Proximity Sensor; power cable
- Packaged together in sets of two (2) in an M548 Container (19" L x 9" W x 15" H and 33 lbs) with desiccant and humidity card

DSU-33D/B

NSN 1325-01-548-4634

SYSTEM PART NUMBER (P/N) 20065120

PACKAGE CONTENTS	P/N (individual)
2 X DSU-33D/B Proximity Sensor	20065122
2 X Power Cords	9042203
Desiccant	
Humidity Card	

DSU-33(D-2)D/B INERT DUMMY TRAINER INITIATOR

NSN 1325-01-548-6644

SYSTEM PART NUMBER (P/N) 20065136

PACKAGE CONTENTS	P/N (individual)
DSU-33(D-2)D/B Dummy Sensor	20065135
2 X Power Cords	9042203

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