

DM 111 A5
Point-Detonating
Mortar Fuze



for HE, TP and smoke ammunition

DM 111 A5

The impact fuze DM111A5 has a sensitive impact device and can be set to two different modes with a setting screw:

- Super-quick action (SQ)
- Delay action (D)

It achieves a proven reliability better than 99.5 % and can be used for fin-stabilized mortar bombs of calibres 51 mm to 120 mm.

The safety devices of the DM111A5 comprise of a safety pin and a launch pulse safety system. The safety pin engages in the pulse safety system. This locks the rotor with the two detonators and prevents the escapement assembly from running down. Before firing, the safety pin must be removed.

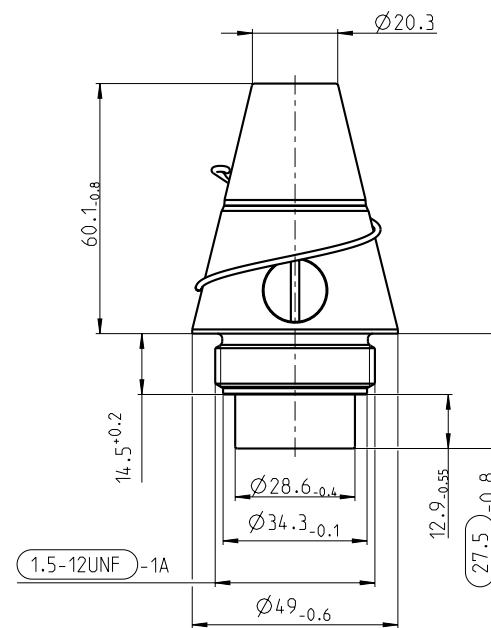
Upon firing, the pulse safety is released. The in-line movement of the rotor is delayed by a delay mechanism thus ensuring the safe-arming distance. The rotor then moves to the position set before firing (D or SQ = delay action or super-quick action).

The sensitive impact mechanism initiates the respective firing train (with or without a pyrotechnic delay) upon striking a target. The DM111A5 fuze is capable of being customized if required.

Frequent modifications include:

- Labelling to customer requirements
- Delivery of the fuze without delay function
- Different booster charge
- Different outer dimensions

A modification to the impact device renders the fuze more sensitive and thus suitable for use on soft surfaces e.g. water, snow and sand. Its designation is then DM111A4 / L127A4.



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Technical Data DM111A5

Muzzle safety	$\geq 40 \text{ m } (\geq 0.8 \text{ s})$
Delay action (D) time	$0.06 \pm 0.03 \text{ s}$
Required setback for arming	$\geq 650 \text{ g}$
Max. setback	$< 20,000 \text{ g}$
Storage temperature range	$-54^{\circ}\text{C to } +71^{\circ}\text{C}$
Operational temperature range	$-46^{\circ}\text{C to } +63^{\circ}\text{C}$
Dimensions	STANAG 2916
Weight	201 g
Shelf life	10 years
Compliance with STANAG 4157 / MIL-STD-331B; STANAG 4187 / MIL-STD-1316C	