

DM111S
Point-Detonating
Mortar Fuze



for HE, TP and smoke ammunition

DM111S

The Mechanical Point Detonating Super-Quick fuze PDSQ DM111S is a mechanical fuze with both a Super-Quick impact and a Delay impact mode, which delivers a design enhancement over the highly reliable and world-wide proven fuzing solutions of DM111/L127 for training, HE and smoke mortar rounds of calibres 60 mm to 120 mm.

In addition, the DM111S provides an environmental second safety feature, and is thereby the first fully STANAG 4187 and AOP20 compliant mechanical PDSQ fuze available.

It can be used and stored in the full temperature range of -54°C to $+71^{\circ}\text{C}$ without any loss in performance and safety.

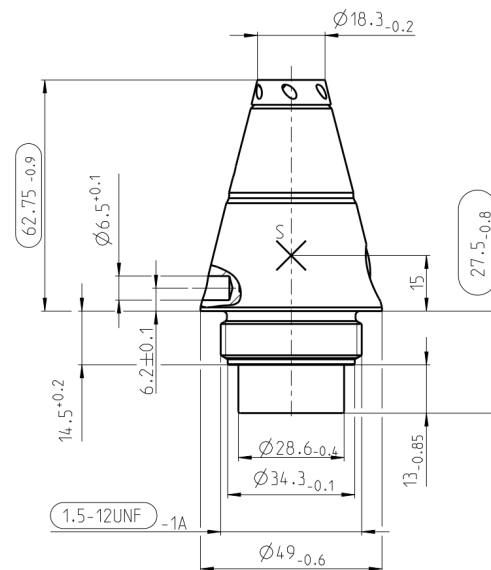
The safety of the fuze is provided by the well proven double bolt system and an environmental wind wheel safety system. Both double bolt systems and the wind wheel safety device block the rotor with the detonator in safe position. These two safety devices prevent the in-line movement of the firing train. Upon firing, the double bolt system is released. The in-line movement of the rotor is delayed by an escapement, with the safety shaft ensuring the safe arming distance. On impact the fuze will function as set,

either in Super-Quick or Delay mode.

The muzzle safety distance can be customized upon request.

Other options:

- Marking according to customer requirements
- Different types of thread



Technical Data DM111S

Muzzle safety	$\geq 40 \text{ m}$ ($\geq 0,8 \text{ sec}$)
Delay action (D) time	$0.06 \pm 0.03 \text{ sec}$
Required setback for arming	$\geq 650 \text{ g}$
Required rotation for arming (wind wheel)	10,000 rpm
Max. setback	$< 20,000 \text{ g}$
Storage temperature range	$-54^{\circ}\text{C} - +71^{\circ}\text{C}$
Operational temperature range	$-54^{\circ}\text{C} - +71^{\circ}\text{C}$
Dimensions	STANAG 2916
Weight	205 g
Shelf life	10 years
Function modes	PD SQ; PD Delay
Compliance with STANAG 2916, STANAG 4187 / 4157, MIL STD 331C, MIL STD 1316C	

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