

DM183
Mechanical Time and Super Quick (MTSQ)
Mortar Fuze



for illuminating and smoke ammunition

DM183

The Mechanical Time and Super-Quick fuze DM183 is a mechanical time fuze with an additional impact mode, which delivers a design enhancement over the highly reliable and world-wide proven fuzing solutions of DM93 and M776 for mortar illuminating and smoke round of calibres 60 mm to 120 mm.

In addition the DM183 incorporates an environmental independent second safety feature and is thereby the first fully STANAG 4187 and AOP20 compliant mechanical time fuze available. The fuze can be used in the full temperature range of -46°C to +63°C without any loss in performance and safety.

The safety of the fuze is guaranteed by two independent safety devices; these include a double bolt system and a wind wheel driven safety device (centrifugal force system).

The double bolt system, the firing pin and a safety shaft lock the rotor with the detonator in safe position. Upon firing, the pulse safety mechanism (double bolt system) is released.

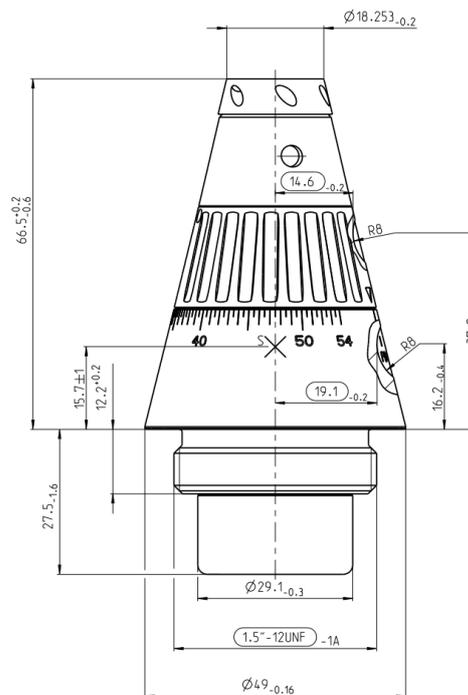
The in-line movement of the rotor is delayed by the safety shaft (delay mechanism), ensuring the safe-arming distance. The additional wind wheel safety device will be released by a second double bolt system still locking the rotor through the firing pin. Only after

the wind wheel driven centrifugal force system (airflow) is completely armed, the firing pin will release the rotor to finally turn in-line. The fuze will function either at the set time, or upon impact if no time has been set.

The muzzle safety distance and the time setting can be customized upon request.

Other options:

- Different scale increments
- Increased expelling charge
- Manual setting
- Different types of thread



Technical Data DM183

Muzzle safety	≥ 40 m
Function modes	Time 6 - 54 / 67 sec; PD SQ
Required setback for arming	≥ 650 g
Required rotation for arming (wind wheel)	$\geq 10,000$ rpm
Storage temperature range	-54°C - +71°C
Operational temperature range	-46°C - +63°C
Dimensions	STANAG 2916
Weight	225 g
Shelf life	10 years

Compliance with STANAG 2916, STANAG 4187 / 4157, MIL STD 331C, MIL STD 1316C

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