Introduction of the Multi Option Fuze Artillery (MOFA) DM84 on 120mm Rifled Mortar
Artillery Howitzer PZH 2000

Copyright of the video by KMW
Fuze types mortar / artillery – functioning

(1) Time
(2) Proximity
(3) PD Super Quick
(4) PD Delay
DM34, DM34A1 Proximity Fuze

- Function: Proximity, Point Detonating SQ or Delay
- Manually Settable
- Not Jamable
- Produced for
  - German Armed Forces (DM34 in service since 1988, DM34A1 in service since 1994)
  - Swedish Armed Forces (DM34A1-S as ÖFZONAR94 MK in service since 1996)
  - Norwegian Armed Forces (DM34A1 as BRANRØR PPD MN187 in service since 1997)
- More than 250,000 ea. fielded
DM74 Multi Option Fuze

- Function: Proximity, Time, Point Detonating SQ or Delay
- Inductively Settable
- Overflight Safety T-4
- Not Jamable
- Produced for German Armed Forces (in service since 1997)
  Canadian Armed Forces (as C32 in service since 1998)
  Danish Armed Forces (in service since 2000)
- More than 270,000 ea. fielded
DM84 Multi Option Fuze

Usage

- on 105 mm / 155 mm high explosive artillery shells
- Field Howitzer 105mm
- Field Howitzer 155mm, 39cal. Barrel
- Self Propelled Howitzer 155mm, 39cal. Barrel
- Self Propelled Howitzer 155mm, 52cal. Barrel
- 120mm Rifled Mortar
DM84 Multi Option Fuze

Further information

- derived from the DM74
- Proximity, Time, PD with and without delay
- two heights of burst (10m / 4m) in PROX mode
- inductive settable (acc. to STANAG )
- reserve Battery with S&A Mechanism
- flick-ramming safe
- delivered to the Dutch Armed Forces
- Adapted to be used on 120mm rifled mortars
Trajectory Safety JUNGHANS MOFA DM74/DM84

Factory (default) setting
- Muzzle Safety >150m (490ft)

Inductive programmed
- Muzzle Safety >150m (490ft)
- Trajectory safety T-4s
120mm Rifled Mortar

Copyright of the video by TDA Armements
DM84 Multi Option Fuze

- Antenna
- Programming
- Radar-electronic-board
- Signal-electronic-board
- Time-electronic-board
- Battery
- Firing Train
- SAD
- Booster
DM84 Multi Option Fuze adaptation

- Will be activated with only 850g (which is significantly lower than on Artillery)
- Does pass 1.5m Drop Test (MIL-STD-331B)
- Is Flick Ramming Safe
DM84 Multi Option Fuze adaptation

- Will be activated with only 850g (which is significant lower than on Artillery)
- Does pass 1,5m Drop Test (MIL-STD-331B)
- Is Flick Ramming Safe
DM84 Multi Option Fuze for 120mm Rifled Mortar

Summary

- DM84 offers a more sophisticated use of 120mm rifled mortars and improves the users options and system efficiency
- Using one fuze for artillery and mortar reduces logistics burden
- Training can be standardized
- DM84 is fielded in a NATO country
Thank you for your kind attention!