

TYPE CLASSIFIED



**NEXT GENERATION  
ARTILLERY  
PROXIMITY FUZE**

Safe  
Reliable  
Accurate  
Cost-Effective  
*Delivers Top Performance!*

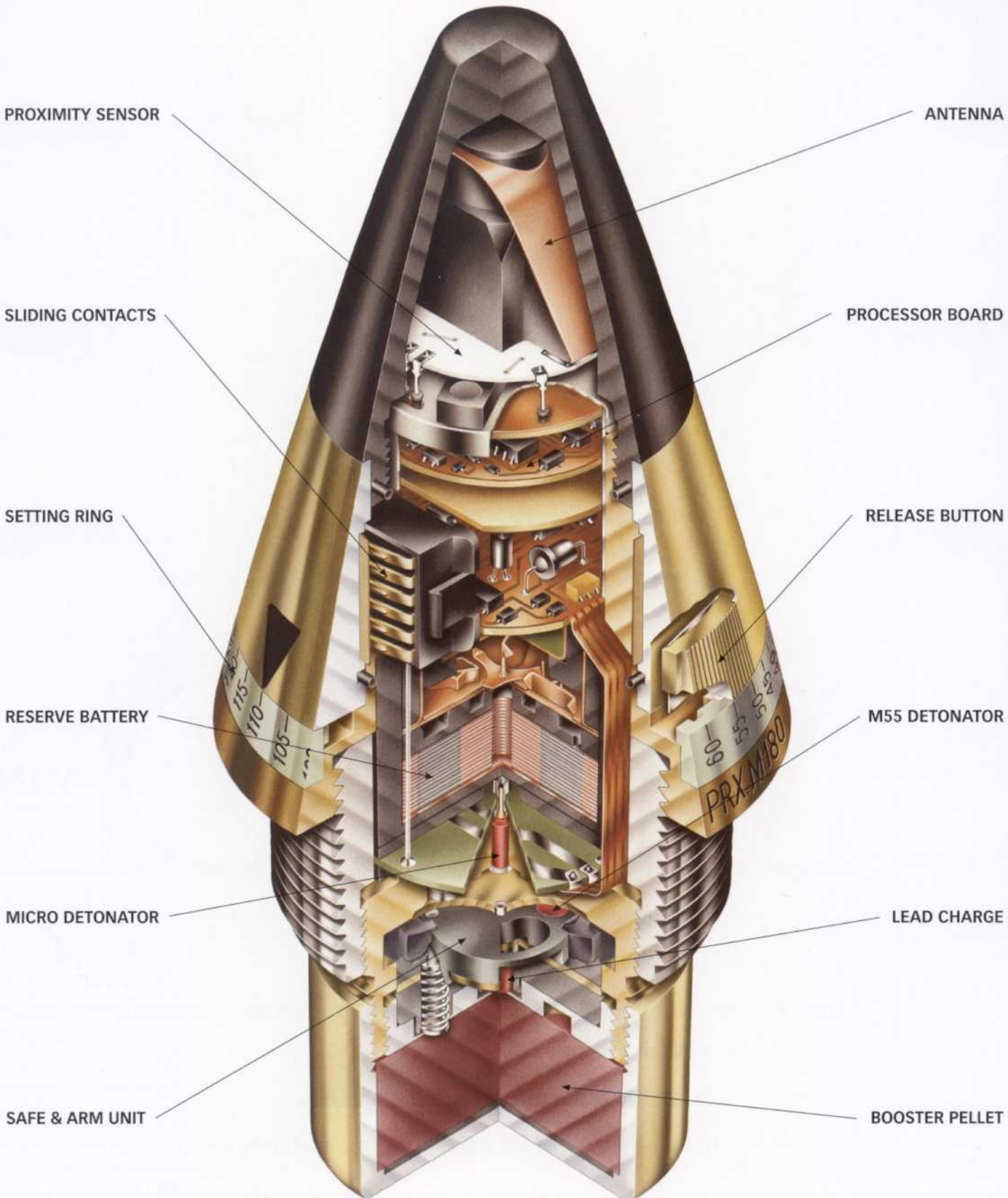
**OMICRON** **M180**

OMICRON M180, an electronic artillery Proximity and Point Detonating (PD) fuze.

- wide compatibility
- meets all international safety standards
- increases the overall lethality of your artillery ammunition

**RESHEF TECHNOLOGIES LTD.**

# OMICRON M180 ELECTRONIC ARTILLERY PROXIMITY FUZE



# TECHNICAL SPECIFICATIONS

## GENERAL:

- The Omicron M180 is a time gated Proximity fuze, designed to initiate artillery ammunition at the optimum Height Of Burst (H.O.B.) for maximum effectiveness at the target.
- The fuze is based on an FMCW radar sensor to provide a constant H.O.B. Independent of target properties, ammunition caliber or firing parameters.
- The fuze operates in all weather conditions and is highly immune to atmospheric conditions and Electronics Counter-Measures (ECM).

## COMPATIBILITY:

- To be used with all types of HE and WP artillery projectiles of calibers: 105 mm; 155 mm & 203 mm (8") Howitzer; 130 mm & 175 mm guns and 4.2" & 120 mm rifles mortars.
- Interchangeable with the following PD fuzes: M51; M557; M572; M739/A1 and equivalent.

## OPERATION MODES:

- **Proximity (PRX)-** Detonates projectiles at optimal height above target.
- **Point Detonating (PD)-** Detonates projectiles upon impact with target.

## BACKUP:

Point detonating backup on proximity mode.

## SAFETY & ARMING:

By two independent arming mechanisms (dual safety):

<b>Setback-</b>	Force of 50g minimum.
<b>Spin-</b>	Rate of 1,600 rpm minimum.
<b>PD Mode-</b>	0.5 ± 0.1 seconds.
<b>PRX Mode-</b>	2.2 seconds minimum.

Electronic arming-

## PHYSICAL DESCRIPTION:

<b>Overall length-</b>	151.6 mm max.
<b>Intrusion length-</b>	56.1 mm max.
<b>Cross section diameter-</b>	61.2 mm max.
<b>Thread size-</b>	2" - 12 UNS-1A
<b>Weight-</b>	0.70 kg

## EXPLOSIVE OUTPUT:

**Booster Pellet-** 27 gr. of Comp. CH-6 or A-5.

## POWER SUPPLY:

Reserve Battery.

## TEMPERATURE LIMITS:

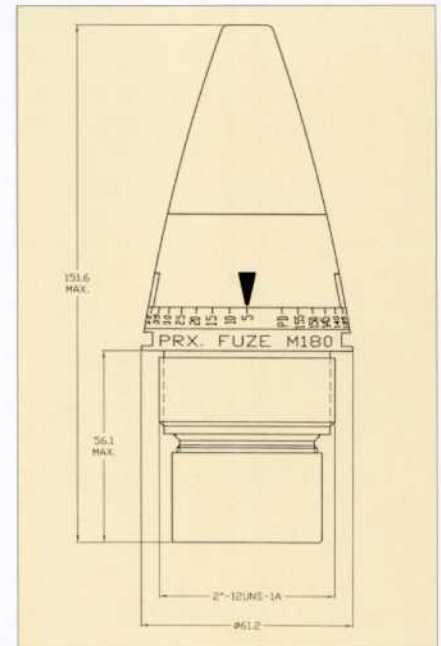
<b>For Operation-</b>	from -40°C to +63°C
<b>For Storage-</b>	from -40°C to +70°C

## HEIGHT OF BURST:

- **PRX Mode** (factory set) - Average of 9.0 m above target.
- Other heights of burst upon request.

## IMMUNITY:

- The fuze utilizes an electronic timer (5 to 155 seconds) which arms the proximity circuitry 2.8 seconds before the set time (overhead safety).
- The fuze will not be activated by clouds, haze, thunder or sand storms, snow or rain.
- The fuze is immune to Electronic Counter Measures (ECM).



**OMICRON M180**

## MILITARY STANDARDS:

<b>MIL-STD-333B</b>	Environmental and performance tests for fuze and fuze components.
<b>MIL-STD-331B</b>	Fuze, projectile and accessory contours.
<b>MIL-STD-1316D</b>	Fuze design, safety criteria.
<b>STANAG-4187</b>	Fuzing system - safety design requirements.