

INTERARMA
ADVISORY

PRODUCT CATALOG

ELECTRONIC FUZES

Artillery · Mortar · Loitering Munitions

SAFE. ACCURATE. RELIABLE.

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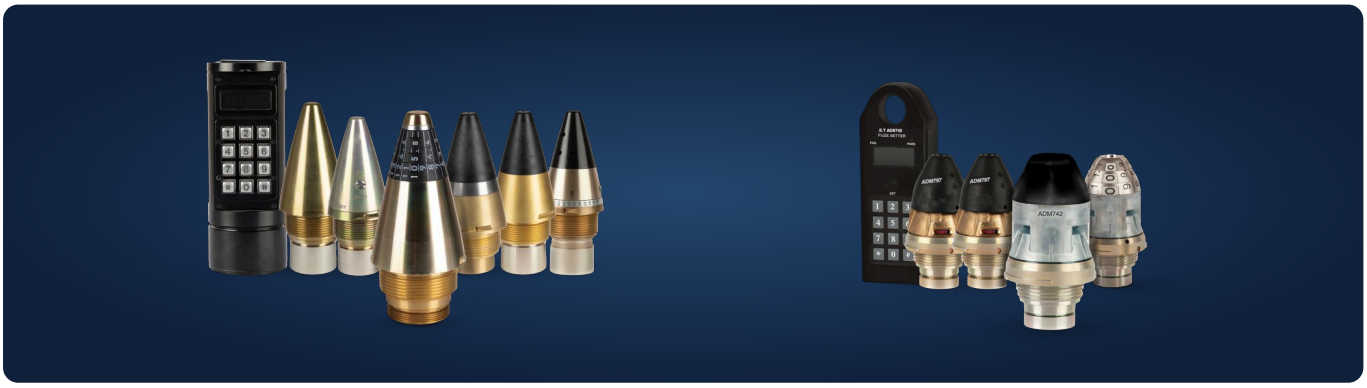
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OVERVIEW

THE FUZE LINE AT A GLANCE

Eleven electronic fuzes covering 105–155 mm artillery, 60–120 mm mortars and loitering munitions. All feature dual independent safety and arming, and operate from -40 °C to +63 °C.

MODEL	TYPE	CALIBERS / PLATFORM	MODES / SETTING	WEIGHT
ARTILLERY				
AD137	Time Fuze	105 – 155 mm	Manual, digital	0.70 / 0.75 kg
ADN137	Time Fuze	105 – 155 mm	Inductive	0.70 / 0.75 kg
AD148	Point Detonating Fuze	105 – 155 mm	PD / Delay	0.75 kg
ADZ148	Point Detonating Fuze	105 – 155 mm	PD / Delay	0.95 kg
AD180	Proximity Fuze	105 – 155 mm	PRX / PD	0.70 kg
ADN180	Proximity Fuze	105 – 155 mm	PRX / PD	0.90 kg
MORTAR				
ADM742	Time Fuze	60 / 81 / 82 / 120 mm	Inductive (ADS742)	0.3 kg
ADM760	Time Fuze	60 / 81 / 120 mm	Manual, digital	0.3 kg
ADM787	Proximity Fuze	60 / 81 / 82 / 120 mm	PRX / PD back-up	0.3 kg
ADM797	Point Detonating Fuze	60 / 81 / 82 / 120 mm	PD / Delay	0.3 kg
LOITERING MUNITIONS				
ADL600	Fuze	Loitering munitions	PD / D / PRX / SD	100 g



QUALITY & COMPLIANCE

BUILT TO MILITARY STANDARDS

All products in this catalog are designed, tested and qualified in full compliance with the following U.S. Military Standards (MIL-STD) and NATO Standardization Agreements (STANAG), ensuring the highest levels of safety, reliability and performance.

MIL-STD-331

Test methods for fuzes and fuze components: environmental, safety and functional tests, including vibration, temperature, humidity, drop and functioning tests under simulated operational conditions.

MIL-STD-333

Inspection and acceptance procedures for ammunition, fuzes and explosive devices: lotting, sampling and defect classification for production quality control.

MIL-STD-1316

Fuze design safety requirements for U.S. military fuzes: mandatory safety mechanisms, arming logic and design constraints to prevent premature detonation.

STANAG 4187

NATO standard for fuze safety and arming mechanisms, harmonizing requirements among NATO nations. Closely aligned with MIL-STD-1316.

AOP-22

NATO standard defining safety and design requirements for fuzes and fuze components across storage, transport, handling and operational use.





01
ARTILLERY FUZES

Electronic time, point detonating and proximity fuzes for 105–155 mm howitzers and guns.

AD 137

SAFE. ACCURATE. RELIABLE.

Highly accurate, safe and reliable electronic time fuze for 105–155 mm artillery. Manual time setting requires no added tools, with a settable point-detonation function.

CALIBERS 105 – 155 mm	**SETTING** Manual, digital
TIME RANGE 3.0 – 199.8 s	**WEIGHT** 0.70 / 0.75 kg



COMPATIBILITY

For all charges, muzzle and terminal velocities.
105 mm – 155 mm howitzers and guns.

Expelling mode	Smoke and illuminating projectiles
Detonating mode	HE projectiles

TIME SETTING

Manually operated, 3.0 to 199.8 seconds in 0.1 second increments.

POINT DETONATING

Settable when the 199.9 seconds setting is selected.

SETTING SYSTEM

Digital setting. Positive self-locking by three setting rings. Unlimited setting storage time.

ACCURACY

Better than 0.1 seconds. Standard deviation of time delay better than 0.1 seconds.

SAFETY & ARMING

Two independent arming mechanisms:

Set-back force	400 g minimum
Spin rate	1,700 RPM minimum

TEMPERATURE

Operation	-40 °C to +63 °C
Storage	-46 °C to +71 °C

POWER SUPPLY

Battery.

EXPLOSIVE OUTPUT

Expelling mode	258 mg RDX
Detonating mode	27 g CH-6 or A5 Comp.

PHYSICAL DESCRIPTION

Overall length	Expelling 133.9 mm max · Detonating 151.6 mm max
Intrusion	Expelling 38.3 mm max · Detonating 56.1 mm max
Diameter	61.2 mm
Thread size	2"-12UNS-1A
Weight	Expelling 0.70 kg · Detonating 0.75 kg

ADN 137

SAFE. ACCURATE. RELIABLE.

Highly accurate, safe and reliable electronic time fuze for 105–155 mm howitzers, with inductive time setting, overhead safety and settable point detonation.

CALIBERS
105 – 155 mm

SETTING
Inductive

OVERHEAD SAFETY
0.2 s

WEIGHT
0.70 / 0.75 kg



COMPATIBILITY

105 mm – 155 mm howitzers.

Expelling mode (less booster)	Smoke and illuminating projectiles
Detonating mode	HE projectiles

TIME SETTING

Performed by an inductive setting system: the time delay is transmitted directly from the fuze setter into the fuze by inductive means.

ACCURACY

Better than 0.1 seconds.

OVERHEAD SAFETY

The fuze will not arm until 0.2 seconds prior to the set time.

SAFETY & ARMING

Two independent arming mechanisms:

Set-back force	400 g minimum
Spin rate	1,700 RPM minimum

TEMPERATURE

Operation	-40 °C to +63 °C
Storage	-46 °C to +71 °C

POWER SUPPLY

Battery.

EXPLOSIVE OUTPUT

Expelling mode	258 mg RDX
Detonating mode	27 g CH-6 or A5 Comp.

PHYSICAL DESCRIPTION

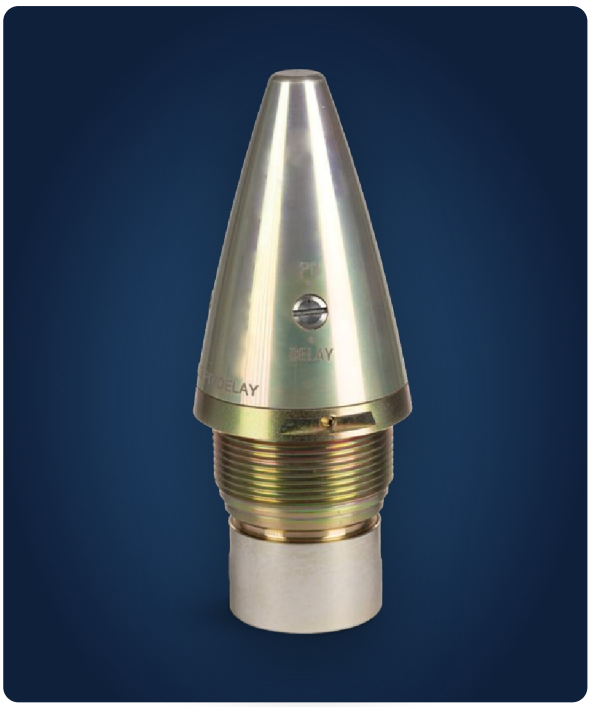
Overall length	Expelling 133.9 mm max · Detonating 151.6 mm max
Intrusion	Expelling 27.5 mm max · Detonating 56.1 mm max
Diameter	61.2 mm
Thread size	2"-12UNS-1A
Weight	Expelling 0.70 kg · Detonating 0.75 kg

AD 148

SAFE. ACCURATE. RELIABLE.

Safe, accurate and cost-effective point detonating fuze for HE artillery projectiles, with manually set super-quick and delay functions.

CALIBERS	MODES
105 – 155 mm	PD / Delay
SETTING	**WEIGHT**
Manual	0.75 kg



COMPATIBILITY

All types of HE artillery projectiles, 105 mm up to 155 mm howitzers and guns.

OPERATION MODES (MANUALLY SET)

Point detonating (PD)	Detonates warhead on impact with target
Delay	Detonates warhead 50 ms after impact with target

SAFETY & ARMING

Two independent arming mechanisms:

Set-back force	400 g minimum
Spin rate	1,700 RPM minimum

TEMPERATURE

Firing	-40 °C to +63 °C
Storage	-46 °C to +71 °C

POWER SUPPLY

Battery.

EXPLOSIVE OUTPUT

Booster pellet	27 g CH-6 or A5 Comp.

PHYSICAL DESCRIPTION

Overall length	151.6 mm max
Intrusion depth	56.1 mm max
Diameter	61.2 mm max
Thread size	2"-12UNS-1A
Weight	0.75 kg

ADZ 148

SAFE. ACCURATE. RELIABLE.

Highly accurate, safe and cost-effective point detonating fuze with two operation modes, super quick or delay, set by an inductive setter.

CALIBERS	MODES
105 – 155 mm	PD / Delay
SETTING	**WEIGHT**
Inductive	0.95 kg



COMPATIBILITY

All types of HE artillery projectiles, 105 mm up to 155 mm howitzers and guns.

OPERATION MODES

Point detonating (PD)	Detonates warhead on impact with target

SAFETY & ARMING

Two independent arming mechanisms:

Set-back force	400 g minimum
Spin rate	1,700 RPM minimum

TEMPERATURE

Firing	-40 °C to +63 °C
Storage	-46 °C to +71 °C

POWER SUPPLY

Battery.

EXPLOSIVE OUTPUT

Booster pellet	27 g CH-6 or A5 Comp.

PHYSICAL DESCRIPTION

Overall length	151.6 mm max
Intrusion depth	56.1 mm max
Diameter	61.2 mm max
Thread size	2"-12UNS-1A
Weight	0.95 kg

AD 180

SAFE. ACCURATE. RELIABLE.

Time-gated proximity fuze that initiates artillery ammunition at the optimum height of burst. Operates in all weather and is highly immune to atmospheric conditions and electronic counter-measures (ECM).



CALIBERS	MODES
105 – 155 mm	PRX / PD
HEIGHT OF BURST	**WEIGHT**
9.0 m avg.	0.70 kg

COMPATIBILITY

All types of HE artillery projectiles, 105 mm – 155 mm howitzers and guns.

OPERATION MODES

Proximity (PRX)	Detonates projectile at optimal height above target
Point detonation (PD)	Detonates projectile upon impact with target

BACK-UP

Point detonating back-up in proximity mode.

ELECTRONIC TIME SETTING

Set manually by self-locking ring.

PD mode	Set to PD
PRX mode	5 to 155 seconds in 5 second increments

HEIGHT OF BURST

PRX mode factory set, average 9.0 m above target. Other heights of burst upon request.

IMMUNITY

Electronic timer (5 to 155 s) starts transmission 2.8 seconds before the set time. Not activated by clouds, thunder or sandstorms. Immune to ECM.

SAFETY & ARMING

Two independent arming mechanisms (dual safety):

Set-back force	400 g minimum
Spin rate	1,700 RPM minimum

TEMPERATURE

Operation	-40 °C to +63 °C
Storage	-46 °C to +71 °C

POWER SUPPLY

Battery.

EXPLOSIVE OUTPUT

Booster pellet	27 g CH-6 or A5 Comp.

PHYSICAL DESCRIPTION

Overall length	151.6 mm max
Intrusion depth	56.1 mm max
Diameter	61.2 mm max
Thread size	2"-12UNS-1A
Weight	0.70 kg

ADN 180

SAFE. ACCURATE. RELIABLE.

Time-gated proximity fuze with inductive setting, designed to initiate artillery ammunition at the optimum height of burst. Operates in all weather and is highly immune to atmospheric conditions and ECM.

CALIBERS	MODES
105 – 155 mm	PRX / PD
SETTING	**WEIGHT**
Inductive	0.90 kg



COMPATIBILITY

All types of HE artillery projectiles, 105 mm – 155 mm howitzers and guns.

OPERATION MODES

Proximity (PRX)	Detonates projectile at optimal height above target
Point detonation (PD)	Detonates projectile upon impact with target

BACK-UP

Point detonating back-up in proximity mode.

TIME SETTING TO START TRANSMITTING

By inductive setting system.

HEIGHT OF BURST

PRX mode factory set, average 9.0 m above target. Other heights of burst upon request.

IMMUNITY

Electronic timer (3 to 199.5 s) starts transmission 2.8 seconds before the set time. Not activated by clouds, thunder or sandstorms. Immune to ECM.

SAFETY & ARMING

Two independent arming mechanisms (dual safety):

Set-back force	400 g minimum
Spin rate	1,700 RPM minimum

TEMPERATURE

Firing	-40 °C to +63 °C
Storage	-46 °C to +71 °C

POWER SUPPLY

Battery.

EXPLOSIVE OUTPUT

Booster pellet	27 g CH-6 or A5 Comp.

PHYSICAL DESCRIPTION

Overall length	151.6 mm max
Intrusion depth	56.1 mm max
Diameter	61.2 mm max
Thread size	2"-12UNS-1A
Weight	0.90 kg



02
MORTAR FUZES

Electronic time, proximity and point detonating fuzes for 60, 81, 82 and 120 mm mortar bombs.

ADM 742

SAFE. ACCURATE. RELIABLE.

Highly accurate and reliable electronic time fuze, compatible with a wide range of mortar calibers, with simple inductive time setting.

CALIBERS
60 / 81 / 82 / 120 mm

SETTING
Inductive (ADS742)

TIME RANGE
3.0 – 99.8 s

WEIGHT
0.3 kg



COMPATIBILITY
All types of HE mortar bombs, calibers 60 mm, 81 mm, 82 mm and 120 mm.

OPERATION MODES
Time delay, point detonating. Electromechanical impact back-up.

TIME DELAY SETTING
3.0 to 99.8 seconds in 0.1 second increments.

POINT DETONATING
Settable when the 99.9 seconds setting is selected. Super quick function.

SETTING SYSTEM
Inductive setting by fuze setter ADS742. Unlimited setting storage time.

ACCURACY
Better than 0.1 seconds. Standard deviation of time delay less than 0.1 seconds.

ARMING
By two environmental signatures:

Set-back force	400 g minimum, for 1 ms minimum
Sustained air flow	30 m/s minimum

SAFETY

Mis-sequencing	Prevents arming whenever air-flow conditions precede set-back conditions
Arming distance	70 m minimum from muzzle
Double loading	Will not function in bore at a double-loading event
Shorted detonator	Electric detonator shorted until arming
Safety pull wire	Not required

TEMPERATURE

Firing	-40 °C to +63 °C
Storage	-46 °C to +71 °C

POWER SUPPLY
Air-driven alternator.

EXPLOSIVE OUTPUT
3 g of black powder.

PHYSICAL DESCRIPTION

Overall length	94.8 mm
Intrusion depth	27.5 mm
Diameter	49.3 mm
Thread size	1.5"-12 UNF-1A (can be changed on request)
Weight	0.3 kg

ADM 760

SAFE. ACCURATE. RELIABLE.

Highly accurate and reliable electronic time fuze for mortar bombs. Manual time setting requires no added tools, with a custom-settable point-detonation function.

CALIBERS
60 / 81 / 120 mm

SETTING
Manual, digital

TIME RANGE
3.0 – 99.8 s

WEIGHT
0.3 kg



COMPATIBILITY

60 mm, 81 mm and 120 mm mortar bombs, at all charges, muzzle and terminal velocities. Expelling mode for smoke and illuminating.

OPERATION MODES

Time delay, point detonating. Electromechanical impact back-up.

TIME DELAY SETTING

Manually operated (no tools required), 3.0 to 99.8 seconds in 0.1 second increments.

POINT DETONATING

Settable when the 99.9 seconds setting is selected. Super quick function.

SETTING SYSTEM

Digital setting. Positive self-locking by three setting rings. Unlimited setting storage time.

ARMING

By two environmental signatures:

Set-back force	400 g minimum, for 1 ms minimum
Sustained air flow	30 m/s minimum

SAFETY

Mis-sequencing	Prevents arming whenever air-flow conditions precede set-back conditions
Arming distance	70 m from muzzle
Double loading	Will not function in bore at a double-loading event
Shorted detonator	Electric detonator shorted until arming
Safety pull wire	Not required

TEMPERATURE

Firing	-40 °C to +63 °C
Storage	-46 °C to +71 °C

EXPLOSIVE OUTPUT

3 g of black powder.

PHYSICAL DESCRIPTION

Overall length	94.8 mm
Intrusion depth	27.5 mm
Diameter	49.3 mm
Thread size	1.5"-12 UNF-1A (can be changed on request)
Weight	0.3 kg

ADM 787

SAFE. ACCURATE. RELIABLE.

Radio proximity fuze compatible with all mortar calibers, with delayed transmission. Using the Doppler effect, it initiates the warhead at the optimum height above the target for maximum effectiveness.



CALIBERS	MODES
60 / 81 / 82 / 120 mm	PRX / PD back-up

HEIGHT OF BURST	WEIGHT
2.5 m / 4.0 m	0.3 kg

COMPATIBILITY

All types of HE mortar bombs, calibers 60 mm, 81 mm, 82 mm and 120 mm.

OPERATION MODES (BY SWITCH)

Proximity (PRX)	Detonates warhead at optimal height above target
Back-up PD	Detonates warhead upon impact with target

TIME DELAY SETTING

Manually operated (no tools required), 3.0 to 99.8 seconds in 0.1 second increments.

TIME SETTING TO START TRANSMITTING

By inductive setting system.

SETTING SYSTEM

Digital setting. Positive self-locking by three setting rings. Unlimited setting storage time.

HEIGHT OF BURST

Factory set: 2.5 m above target for 60/81/82 mm, 4.0 m for 120 mm. Other heights of burst upon request.

ARMING

By two environmental signatures:

Set-back force	400 g minimum, for 1 ms minimum
Sustained air flow	30 m/s minimum

SAFETY

Mis-sequencing	Prevents arming whenever air-flow conditions precede set-back conditions
Arming distance	70 m minimum from muzzle
Double loading	Will not function in bore at a double-loading event
Shorted detonator	Electric detonator shorted until arming
Safety pull wire	Not required

TEMPERATURE

Firing	-40 °C to +63 °C
Storage	-46 °C to +71 °C

POWER SUPPLY

Air-driven alternator.

EXPLOSIVE OUTPUT

Booster pellet	7 g CH-6

PHYSICAL DESCRIPTION

Overall length	95.5 mm
Intrusion depth	27.5 mm
Diameter	51.1 mm
Thread size	1.5"-12 UNF-1A (can be changed on request)
Weight	0.3 kg

ADM 797

SAFE. ACCURATE. RELIABLE.

Electronic point detonating fuze compatible with all mortar calibers. Requires no safety pull wire and meets all safety requirements.

CALIBERS
60 / 81 / 82 / 120 mm

MODES
PD / Delay

PULL WIRE
Not required

WEIGHT
0.3 kg



COMPATIBILITY

All types of HE mortar bombs, calibers 60 mm, 81 mm, 82 mm and 120 mm.

OPERATION MODES (BY SWITCH)

Point detonating (PD)	Detonates warhead on impact with target
Delay	Detonates warhead 50 ms after impact with target

ARMING

By two environmental signatures:

Set-back	400 g minimum, for 1 ms minimum
Air speed	30 m/s minimum

SAFETY

Mis-sequencing	Prevents arming whenever air-flow conditions precede set-back conditions
Arming distance	70 m minimum from muzzle
Double loading	Will not function in bore at a double-loading event
Shorted detonator	Electric detonator shorted until arming
Safety pull wire	Not required

TEMPERATURE

Firing	-40 °C to +63 °C
Storage	-46 °C to +71 °C

POWER SUPPLY

Air-driven alternator.

EXPLOSIVE OUTPUT

Booster pellet	7 g CH-6

PHYSICAL DESCRIPTION

Overall length	95.1 mm
Intrusion depth	51.1 mm
Diameter	27.5 mm
Thread size	1.5"-12 UNF-1A (can be changed on request)
Weight	0.3 kg



03
LOITERING MUNITION FUZES

A versatile electronic fuze family with a customizable interface for loitering munition platforms.

ADL 600

SAFE. ACCURATE. RELIABLE.

Versatile electronic fuze family suited to all types of loitering munitions where communication with the fuze is required. Arming conditions and interface can be customized to the platform.

PLATFORM	MODES
Loitering munitions	PD / D / PRX / SD

DIAMETER	WEIGHT
40 mm	100 g



COMPATIBILITY

All types of loitering munitions where communication with the fuze is required. Designed for low-acceleration launch. Interface customizable to the platform.

OPERATION MODES (BY SWITCH)

Point detonating (PD)	Detonates warhead on impact with target
Delay (D)	Detonates with delay after hitting the target; delay customizable
Proximity (PRX)	Detonates above ground on command from proximity sensor (sensor not included)
Self-destruction	Detonates in the air upon receiving command

SAFETY & ARMING

Two independent arming mechanisms:

Bore rider	400 g minimum, for 1 ms minimum
System command	Dependent on physical event

TEMPERATURE

Firing	-40 °C to +63 °C
Storage	-46 °C to +71 °C

EXPLOSIVE OUTPUT

X2 PBXN-5 lead charges of 0.11 g each, or customized to the client's needs.

PHYSICAL DESCRIPTION

Overall length	40.8 ± 0.2 mm
Diameter	40 ± 0.1 mm
Weight	100 ± 10 g



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