



## **FUZES**

### **Fuzes for Mortar ammunition**

- **Point Detonating Fuze PD M78 (AU-29)**
- **Point Detonating Fuze PD M78P2 (AU-29P2)**
- **Point Detonating Fuze PD M78P3 (AU-29P3)**
- **Point Detonating Fuze PD M78P4 (AU-29P4)**
- **Electronic Time Fuze ET M17**

### **Fuzes for Artillery ammunition**

- **Point Detonating Fuze PD M72B1 (AU-18B1)**
- **Point Detonating Fuze PD M72B1A (AU-18B1A)**
- **Point Detonating Fuze PD M72P1 (AU-18P1)**
- **Point Detonating Fuze PD M85 (AU-20E)**
- **Point Detonating Fuze PD M85P1 (AU-20EP1)**
- **Electronic Time Fuze ET M19**
- **Piezoelectric Fuze UT-PE M87 (V-15)**
- **Piezoelectric Fuze UT-PE M87P1 (V-15P1)**

### **Fuzes for 122 mm Rockets**

- **Point Detonating Fuze AU-32**

➤ **Point Detonating Fuze PD M78 (AU-29)**

Point detonating fuze PD M78 is a selective superquick or delay impact fuze designed for use in HE mortar shells 120 mm.



**TECHNICAL DATA**

<b>Weight</b>	≈430 g
<b>Action type</b>	Superquick
	Delay ( 0,013-0,027 s)
<b>Safety type</b>	As per MIL-STD-1316 B
<b>Minimal arming conditions</b>	Acceleration: 700 g
<b>Muzzle safety distance</b>	Min. 10 m at velocity of 76 m/s
<b>Transportation Safety</b>	Safe at any type of transportation
<b>Airtightness</b>	Fuze is airtight

➤ **Point Detonating Fuze PD M78P2 (AU-29P2)**

Point detonating fuze PD M78P2 is a selective superquick or delay impact fuze designed for use in HE mortar shells 60 mm, 81 mm and 120 mm.



**TECHNICAL DATA**

<b>Weight</b>	≈240 g
<b>Action type</b>	<b>Superquick</b> Delay ( 0,013-0,027 s)
<b>Safety type</b>	As per MIL-STD-1316 B
<b>Minimal arming conditions</b>	Acceleration: 700 g
<b>Muzzle safety distance</b>	Min. 10 m at velocity of 76 m/s
<b>Transportation Safety</b>	Safe at any type of transportation
<b>Airtightness</b>	Fuze is airtight

➤ **Point Detonating Fuze PD M78P3 (AU-29P3)**

Point detonating fuze PD M78P3 is single action type providing superquick functioning on target impact, designed for use in HE mortar shells 60 mm and 81 mm.



**TECHNICAL DATA**

<b>Weight</b>	≈240g
<b>Action type</b>	SQ
<b>Safety type</b>	As per MIL-STD-1316 B
<b>Minimal arming conditions</b>	Acceleration: 700g
<b>Muzzle safety distance</b>	Min. 10 m at velocity of 76 m/s
<b>Transportation Safety</b>	Safe at any type of transportation
<b>Airtightness</b>	Fuze is airtight

➤ **Point Detonating Fuze PD M78P4 (AU-29P4)**

Point detonating fuze PD M78P4 is a selective superquick or delay impact fuze designed for use in HE mortar shells 60mm, 81mm and 120mm.

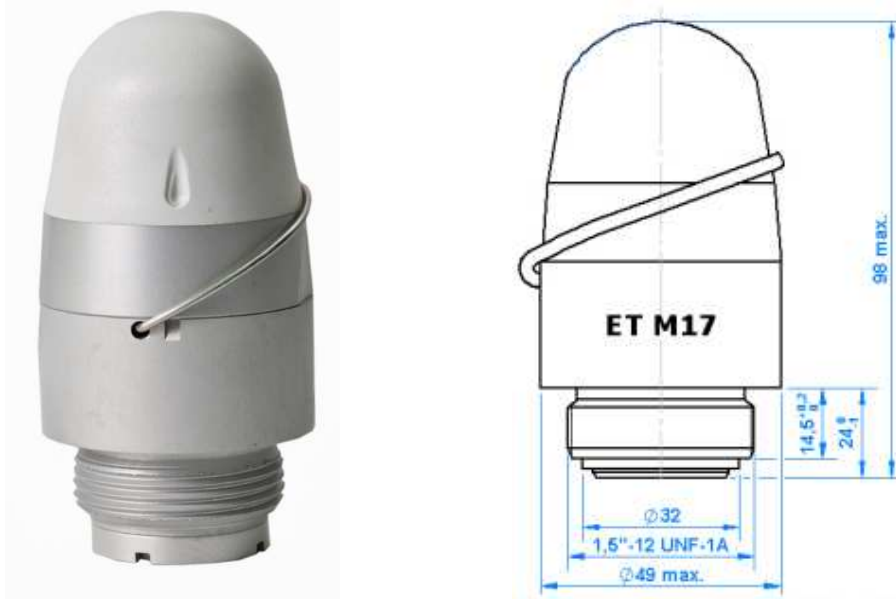


**TECHNICAL DATA**

<b>Weight</b>	≈410 g
<b>Action type</b>	<b>Superquick</b>
	<b>Delay ( 0,013-0,027 s)</b>
<b>Safety type</b>	As per MIL-STD-1316 B
<b>Minimal arming conditions</b>	Acceleration: 700 g
<b>Muzzle safety distance</b>	Min. 10 m at velocity of 76 m/s
<b>Transportation Safety</b>	Safe at any type of transportation
<b>Airtightness</b>	Fuze is airtight

## ➤ Electronic Time Fuze ET M17

Electronic time fuze ET M17 is an inductively settable fuze designed for use in illuminating and smoke mortar shells 60 mm, 81 mm and 120 mm. The fuze time is set inductively from 6 to 99.9 seconds (in 0.1 second increments).



### TECHNICAL DATA

<b>Weight</b>	≈285 g
<b>Setting time</b>	6 to 99,9 s (step 0,1 s)
<b>Safety type</b>	As per MIL-STD-1316 B
<b>Minimal arming conditions</b>	Acceleration: 700 g
<b>Muzzle safety distance</b>	Min. 10 m
<b>Transportation Safety</b>	Safe at any type of transportation
<b>Airtightness</b>	Fuze is airtight

➤ **Point Detonating Fuze PD M72B1 (AU-18B1)**

Point detonating fuze PD M72B1 is a selective superquick or delay impact fuze designed for use in HE shells 76 mm, 85 mm, 100 mm, 122 mm, 130 mm and 150 mm.



**TECHNICAL DATA**

<b>Weight</b>	≈420 g
<b>Action type</b>	<b>Superquick</b>
	<b>Delay ( 0,020-0,050 s)</b>
<b>Safety type</b>	As per MIL-STD-1316 B
<b>Minimal arming conditions</b>	<b>Acceleration: 2500 g</b>
	<b>Rotation: 3000 rpm</b>
<b>Muzzle safety distance</b>	Min. 10 m
<b>Transportation Safety</b>	Safe at any type of transportation
<b>Airtightness</b>	Fuze is airtight

➤ **Point Detonating Fuze PD M72B1A (AU-18B1A)**

Point detonating fuze PD M72B1A is a selective superquick or delay impact fuze designed for use in HE shells 105 mm and 155 mm.



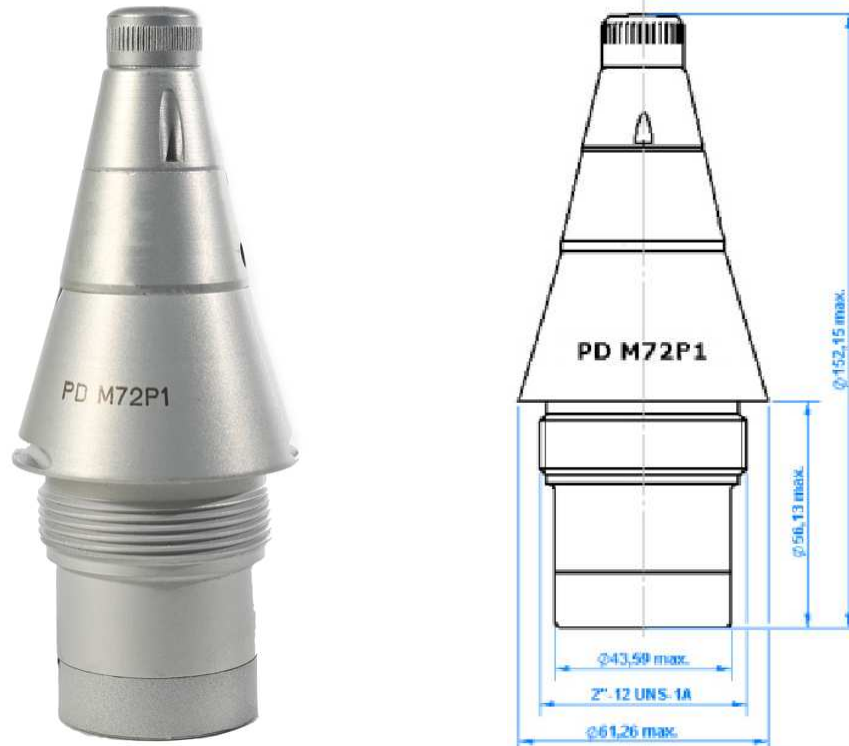
**TECHNICAL DATA**

<b>Weight</b>	<b>725 g</b>
<b>Action type</b>	<b>Superquick</b>
	<b>Delay ( 0,020-0,050 s)</b>
<b>Safety type</b>	<b>As per MIL-STD-1316 B</b>
<b>Minimal arming conditions</b>	<b>Acceleration: 2500 g</b>
	<b>Rotation: 3000 rpm</b>
<b>Muzzle safety distance</b>	<b>Min. 35 m at muzzle velocity of 472 m/s</b>
<b>Transportation Safety</b>	<b>Safe at any type of transportation</b>
<b>Airtightness</b>	<b>Fuze is airtight</b>



➤ **Point Detonating Fuze PD M72P1 (AU-18P1)**

Fuze M72P1 is a variant of fuze PD M72B1A no delay action.



**TECHNICAL DATA**

<b>Weight</b>	<b>725 g</b>
<b>Action type</b>	<b>Superquick</b>
<b>Safety type</b>	<b>As per MIL-STD-1316 B</b>
<b>Minimal arming conditions</b>	<b>Acceleration: 2500 g</b>
	<b>Rotation: 3000 rpm</b>
<b>Muzzle safety distance</b>	<b>Min. 35 m at muzzle velocity of 472 m/s</b>
<b>Transportation Safety</b>	<b>Safe at any type of transportation</b>
<b>Airtightness</b>	<b>Fuze is airtight</b>

➤ **Point Detonating Fuze PD M85 (AU-20E)**

Point detonating fuze PD M85 is a selective superquick or delay impact fuze designed for use in HE shells 100 mm, 115 mm and 125 mm.



**TECHNICAL DATA**

<b>Weight</b>	≈460 g
<b>Action type</b>	<b>Superquick</b>
	<b>Delay ( 0,030-0,050 s)</b>
<b>Safety type</b>	As per MIL-STD-1316 B
<b>Minimal arming conditions</b>	Acceleration: 3000 g
<b>Muzzle safety distance</b>	Min. 10 m
<b>Transportation Safety</b>	Safe at any type of transportation
<b>Airtightness</b>	Fuze is airtight

➤ **Point Detonating Fuze PD M85P1 (AU-20EP1)**

Point detonating fuze PD M85P1 is a selective superquick or delay impact fuze designed for use in non-rotating HE shells 100 mm, 115 mm and 125 mm.

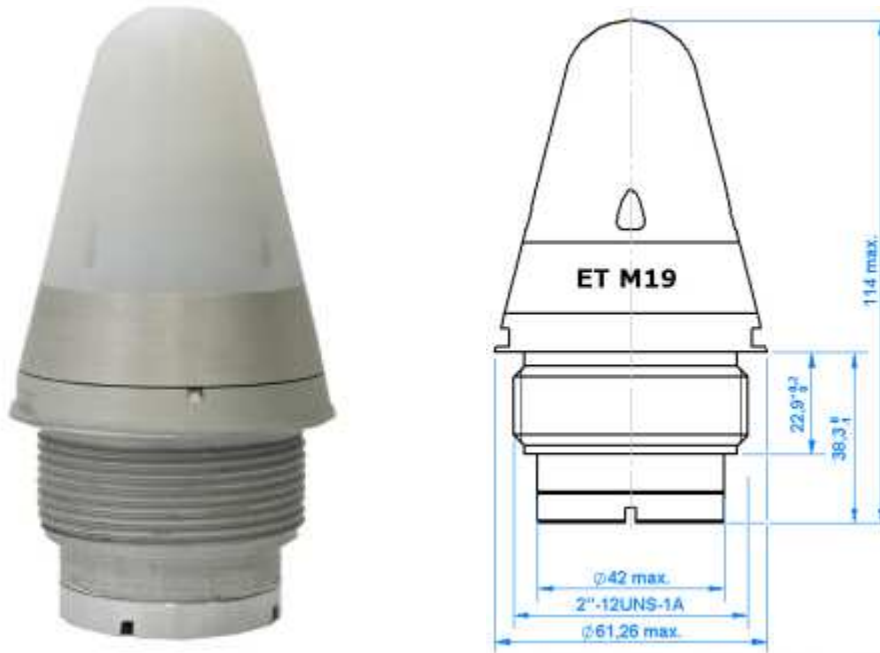


**TECHNICAL DATA**

<b>Weight</b>	≈460 g
<b>Action type</b>	<b>Superquick</b>
	<b>Delay ( 0,030-0,050 s)</b>
<b>Safety type</b>	As per MIL-STD-1316 B
<b>Minimal arming conditions</b>	Acceleration: 3000 g
<b>Muzzle safety distance</b>	Min. 50 m
<b>Transportation Safety</b>	Safe at any type of transportation
<b>Airtightness</b>	Fuze is airtight

## ➤ Electronic Time Fuze ET M19

Electronic time fuze ET M19P1 is an inductively settable fuze designed for use in destructive, illumination, smoke, propaganda and cluster artillery ammunition 105÷155 mm. The fuze time is set inductively from 6 to 99.9 seconds (in 0.1 second increments).



### TECHNICAL DATA

<b>Weight</b>	≈350 g
<b>Setting time</b>	6 to 99,9 s (step 0,1 s)
<b>Safety type</b>	As per MIL-STD-1316 B
<b>Minimal arming conditions</b>	Acceleration: 2400 g
<b>Maximal setback</b>	23000 g
<b>Muzzle safety distance</b>	Min. 150 m
<b>Transportation Safety</b>	Safe at any type of transportation
<b>Airtightness</b>	Fuze is airtight

## ➤ Piezoelectric Fuze UT-PE M87 (V-15)

The UT-PE M87 fuze is piezoelectric fuze of superquick action. Consisting of two main parts: piezogenerator and base fuze. The UT-PE M87 fuze intended for completion of HEAT-T shell 122 mm 3BK-13 and 125 mm 3BK-14M.



## TECHNICAL DATA

<b>Lenght</b>	<b>Piezogenerator: 102,36 to 104,96 mm Bottom part: 111,7 to 113,6 mm</b>
<b>Weight</b>	<b>Piezogenerator: 85 g Bottom part: 170 g</b>
<b>Action type</b>	<b>Superquick</b>
<b>Safety type</b>	<b>Safe, with interrupted explosive train. Elektrodetonator is short circuit.</b>
<b>Max. acceleration</b>	<b>250.000 m/s<sup>2</sup></b>
<b>Muzzle safety distance</b>	<b>2,5 m</b>
<b>Transportation Safety</b>	<b>Safe at any type of transportation</b>
<b>Airtightness</b>	<b>Fuze is airtight</b>

## ➤ Piezoelectric Fuze UT-PE M87P1 (V-15P1)

The UT-PE M87P1 fuze is piezoelectric fuze of superquick action. Consisting of two main parts: piezogenerator and base fuze. The UT-PE M87 fuze intended for completion of HEAT-T shell 122 mm 3BK-13 and 125 mm 3BK-14M.

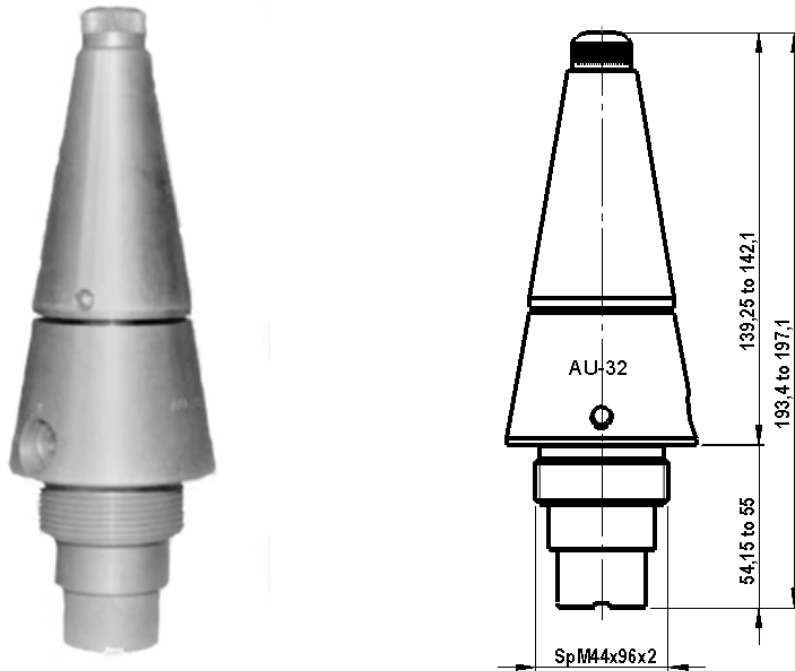


### TECHNICAL DATA

<b>Lenght</b>	<b>Piezogenerator: 102,36 to 104,96 mm Bottom part: 111,7 to 113,6 mm</b>
<b>Weight</b>	<b>Piezogenerator: 85 g Bottom part: 170 g</b>
<b>Action type</b>	<b>Superquick</b>
<b>Safety type</b>	<b>Safe, with interrupted explosive train. Elektrodetonator is short circuit.</b>
<b>Max. acceleration</b>	<b>250.000 m/s<sup>2</sup></b>
<b>Muzzle safety distance</b>	<b>50 m</b>
<b>Transportation Safety</b>	<b>Safe at any type of transportation</b>
<b>Airtightness</b>	<b>Fuze is airtight</b>

## ➤ Point Detonating Fuze AU-32

AU-32 is a mechanical, nose, point-detonating fuze with selectable super-quick or delayed action.



### TECHNICAL DATA

Weight	720 g
Action type	- SQ
	- Delay 0,001 to 0,005 s
	- Delay 0,007 to 0,013 s
Safety type	Partly interrupted explosive train
Minimal arming conditions	Acceleration: 20 g
Drop safety	3 m
Muzzle safety	During the active phase of rocket motor (~1,5 s)
Temperature range of use	from -30 to +50° C
Transportation Safety	Safe at any type of transportation
Airtightness	Fuze is airtight