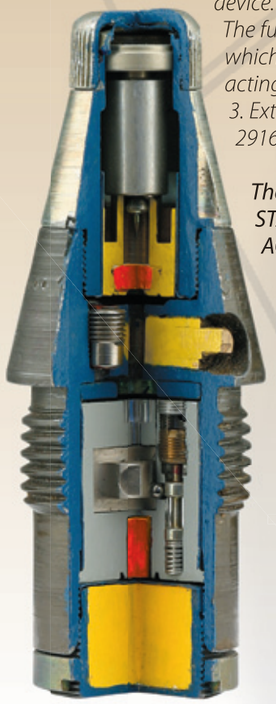
Artillery Fuzes

KZ-88M **Impact Fuze**

KZ-88M is an artillery nose fuze. KZ-88M fuze represents an equivalent substitution of RGM-2 fuze and its modifications. It is designed for firing of high-explosive ammunition of the calibers of 100 mm, 122 mm and 152 mm from TK54 tank cannon, 100 mm K53 cannon, and 122 mm ShH 2S1, 122 mm HD30, 122 mm M30, 152 mm D30 and 152 ShKH vz. 77 howitzers. The fuze is mechanical with safety and arming device. KZ-88M fuze enables superquick (SQ) or delay functions.



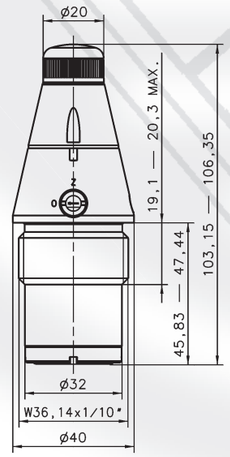
The fuze has two safety features preventing an unintentional arming, which action is derived from two various influences of the environment acting on the fuze during the firing phase as per STANAG 4187, Edition 3. External contour and dimensions of the fuze comply with STANAG 2916, Edition 2.

The safety of KZ-88M fuzes was tested in accordance with STANAG 4157, Edition 2 with application of test methods as per AOP-20 Edition 1:

- *jolt (A1)*
- *jumble (A2)*
- *12 m drop (A3)*
- *1,5 m drop (A4)*
- *handling (A5)*
- *transportation vibration (B1, B2)*
- *salt fog (C3)*
- *waterproofness (C4)*
- *fungal growth (C5)*
- *thermal shock (C7)*
- *dust (C9)*
- *solar radiation (10)*
- *detonator safety test (D1)*
- *fuze arming distance (D2)*
- *explosive element output (D4)*

Technical Specifications of KZ-88M

Type	*nose impact fuze with superquick or delay function with two safety features*
Equivalent substitution	*of RGM-2 fuze and its modifications*
Caliber of projectiles	*100, 122 and 152 mm*
Ammunition	*high-explosive*
Fuze arming distance	*min. 80 m*
Conditions for fuze arming:	
Acceleration	*min. 835 g*
Minimum spin	*2400 rpm*
Time of delay function	*0,05 s*
Relay charge NP-D	*0,212 g*
Booster NP10	*10 g*
Height of safe drop	*12 m*
Weight	*409 g*
External dimensions	*as per STANAG 2916, Ed. 2*
Length	*105,71 mm*
Diameter	*φ 40 mm*
Intrision	*47,4 mm*
Thread	*SpW 36,18 x 1/10"*
Operational temperature range	*- 50 °C to + 55 °C*
Storage temperature range	*- 54 °C to + 55 °C.*
Design requirements	*as per STANAG 4187, Ed. 3*
Safety assessment	*as per STANAG 4157, Ed. 2*



Joint Ownership:
Ministry of Economy of the Slovak Republic
Ministry of Defence of the Slovak Republic
Konštrukta Dfence, a. s.

Ministerstvo HOSPODÁRSTVA SLOVENSKEJ REPUBLIKY

KONŠTRUKTA - Defence, a.s.

KONŠTRUKTA - Defence, a.s.

K výstavisku 15, 912 50 Trenčín, Slovakia
tel.: +421 (0)32 7435 731, +421 (0)32 6507 528, fax: +421 (0)32 7431 930
e-mail: kotadef@kotadef.sk, www. kotadef.sk

Fuze Program

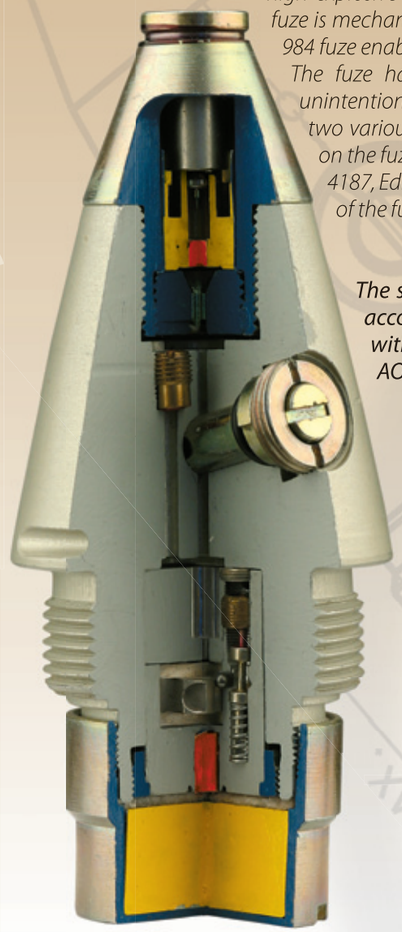
BEKOZ **Fuze Modernization**

KONŠTRUKTA - Defence, a.s.

K výstavisku 15, 912 50 Trenčín, Slovakia
tel.: +421 (0)32 7435 731, +421 (0)32 6507 528, fax: +421 (0)32 7431 930
e-mail: kotadef@kotadef.sk, www. kotadef.sk

KZ-984 **Impact Fuze**

KZ-984 is an artillery nose impact fuze. It is designed for firing of high-explosive ammunition of the 155 mm caliber. The fuze is mechanical with safety and arming device. KZ-984 fuze enables superquick (SQ) or delay functions.
The fuze has two safety features preventing an unintentional arming, which action is derived from two various influences of the environment acting on the fuze during the firing phase as per STANAG 4187, Edition 3. External contour and dimensions of the fuze comply with STANAG 2916, Edition 2.

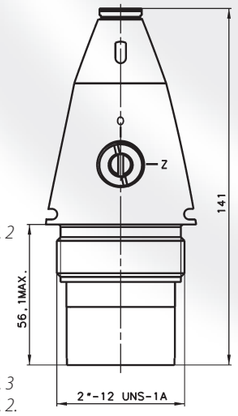


The safety of KZ-984M fuzes was tested in accordance with STANAG 4157, Edition 2 with application of test methods as per AOP-20 Edition 1:

- *jolt (A1)*
- *jumble (A2)*
- *12 m drop (A3)*
- *1,5 m drop (A4)*
- *handling (A5)*
- *transportation vibration (B1, B2)*
- *salt fog (C3)*
- *waterproofness (C4)*
- *fungal growth (C5)*
- *thermal shock (C7)*
- *dust (C9)*
- *solar radiation (10)*
- *detonator safety test (D1)*
- *fuze arming distance (D2)*
- *explosive element output (D4)*

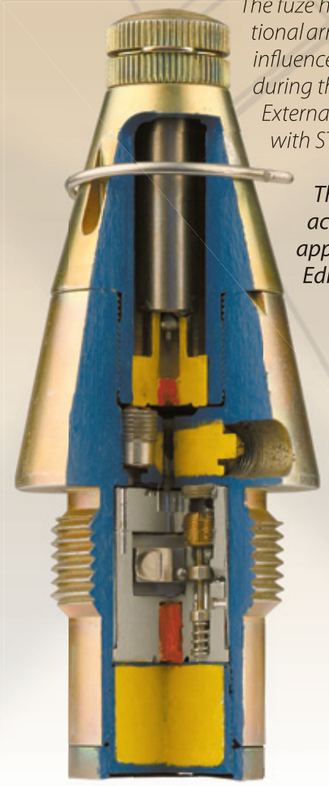
Technical Specifications of KZ-984

Type	*nose impact fuze with superquick or delay function (O, Z) with two safety features*
Caliber of projectiles	*155 mm*
Ammunition	*high-explosive*
Fuze arming distance	*min. 80 m*
Conditions for fuze arming:	
Acceleration	*min. 1600 g*
Minimum spin	*2400 rpm*
Time of delay function	*0,06 s*
Relay charge NP-D	*0,212 g*
Booster NP10	*21,5 g*
Height of safe drop	*12 m*
Weight	*0,7 kg*
External dimensions	*as per STANAG 2916, Ed. 2*
length	*143 mm*
Diameter	*φ 60 mm*
Intrusion	*56,1 mm*
Thread	*2"-12 TPI – UNF*
Operational temperature range	*- 40 °C to + 55 °C*
Storage temperature range	*- 54 °C to + 55 °C*
Design requirements	*as per STANAG 4187, Ed. 3*
Safety assessment	*as per STANAG 4157, Ed. 2.*



MZ-95M **Impact Fuze**

MZ-95M is a mortar nose impact fuze. It is designed for firing of high-explosive mortar ammunition of the 81 mm and 98 mm calibers from 81 mm and 98 mm mortars.
The fuze is mechanical with safety and arming device. MZ-95M fuze enables superquick (SQ) or delay functions. Superquick function is set to destroy the target with fragmentation effect; delay function is set to destroy the target with blast effect.



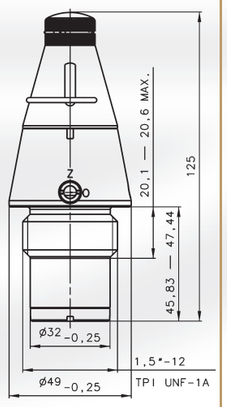
The fuze has two safety features preventing an unintentional arming, which action is derived from two various influences of the environment acting on the fuze during the firing phase as per STANAG 4187, Edition 3. External contour and dimensions of the fuze comply with STANAG 2916, Edition 2.

The safety of KZ-95M fuzes was tested in accordance with STANAG 4157, Edition 2 with application of test methods as per AOP-20 Edition 1:

- *jolt (A1)*
- *jumble (A2)*
- *12 m drop (A3)*
- *1,5 m drop (A4)*
- *handling (A5)*
- *transportation vibration (B1, B2)*
- *salt fog (C3)*
- *waterproofness (C4)*
- *fungal growth (C5)*
- *thermal shock (C7)*
- *dust (C9)*
- *solar radiation (10)*
- *detonator safety test (D1)*
- *fuze arming distance (D2)*
- *explosive element output (D4)*

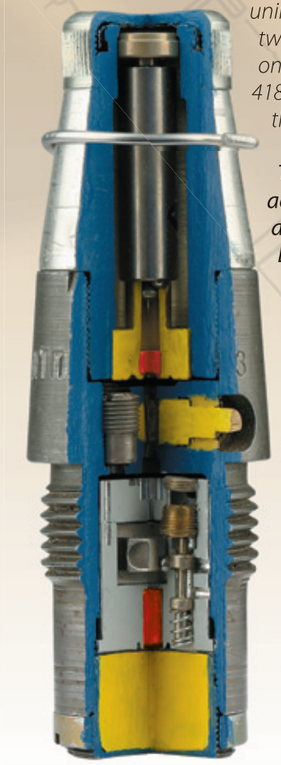
Technical Specifications of MZ-95M

Type	*nose impact fuze with superquick or delay function with two safety features*
Caliber of projectiles	*98 mm and 81 mm*
Ammunition	*high-explosive produced in Slovakia*
Fuze arming distance	*min. 80 m*
Conditions for fuze arming:	
Acceleration	*min. 835 g*
Time of delay function	*0,006 s*
Explosive elements:	
Relay charge NP-D	*0,212 g*
Booster NP10	*12,5 g*
Height of safe drop	*12 m*
Weight	*0,671 kg*
External dimensions	*as per STANAG 2916, Ed. 2*
Length	*125 mm*
Diameter	*φ 49 mm*
Thread	*1,5" - 12 TPI UNF-1A*
Operational temperature range	*- 40°C to + 50 °C*
Storage temperature range	*- 54°C to + 55 °C (+ 71 °C max. 28 dní max. 4 hodiny/denne)*



MZ-81M **Impact Fuze**

MZ-81M is a mortar nose impact fuze. It is designed for firing of high-explosive mortar ammunition of the 120 mm caliber from the 120 mm mortar. MZ-81M fuze represents an equivalent substitution of M12 and MZ-81 fuzes.
The fuze is mechanical with safety and arming device. MZ-81M fuze enables superquick (SQ) or delay functions. Superquick function is set to destroy the target with fragmentation effect; delay function is set to destroy the target with blast effect.



The fuze has two safety features preventing an unintentional arming, which action is derived from two various influences of the environment acting on the fuze during the firing phase as per STANAG 4187, Edition 3. External contour and dimensions of the fuze comply with STANAG 2916, Edition 2.

The safety of MZ-81M fuzes was tested in accordance with STANAG 4157, Edition 2 with application of test methods as per AOP-20 Edition 1:

- *jolt (A1)*
- *jumble (A2)*
- *12 m drop (A3)*
- *1,5 m drop (A4)*
- *handling (A5)*
- *transportation vibration (B1, B2)*
- *salt fog (C3)*
- *waterproofness (C4)*
- *fungal growth (C5)*
- *thermal shock (C7)*
- *dust (C9)*
- *solar radiation (10)*
- *detonator safety test (D1)*
- *fuze arming distance (D2)*
- *explosive element output (D4)*

Technical Specifications of MZ-81M

Type	*nose impact fuze with superquick or delay function with two safety features*
Caliber of projectiles	*120 mm.*
Ammunition	*high-explosive*
Fuze arming distance	*min. 80 m*
Conditions for fuze arming:	
acceleration	*min. 835 g*
Time of delay function	*0,006 s*
Explosive elements:	
Relay charge NP-D	*0,212 g*
Booster NP10	*10 g*
Height of safe drop	*12 m*
Weight	*0,595 kg*
External dimensions	*as per STANAG 2916, Ed. 2*
Height	*117 - 121 mm*
Diameter	*φ 40 mm*
Intrusion	*47,4 mm*
Thread	*SpW 36,18 x 1/10"*
Operational temperature range	*- 40°C to + 50 °C.*
Storage temperature range	*- 54°C to + 55 °C (+ 71 °C max. 28 days max. 4 hours/day).*