



ZEONICS SYSTECH
DEFENCE & AEROSPACE ENGINEERS (P) LTD.



High Voltage Trigger Transformers, Modules, Components & Systems



There are different requirements of triggering or starting a electrical activity through Trigger Generator, trigger transformers etc, as a result of that we manufacture several trigger transformer, trigger modules, isolation transformer with trigger generator facilities & different applications.

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Fibre Optic Converter, Receiver and Transmitter

1. Used for firing of trigger generators and other simple laboratory applications.
2. Input command can be manual or optical pulse.
3. Output can be used as a logic pulse.
4. Both transmitter and receiver can be separated to a maximum distance of 200 Meters.
5. Type No. : Z/29/29



High Voltage Bridge wire exploding chamber

1. Input : DC of 20kV to 50kV DC stored energy of 1kJ to 5kJ
2. Output : Pulse of 20kV to 50kV at 2kJ to 5kJ
3. Pressure : Maximum 200PSI of gas or vacuum of 730 mBar
4. Application : It is used to photograph a explosion in a Controlled chamber with suitable Bullet-proof glasses & all made in solid tempered steel plates.
5. Type : Z/27/2(210), Z/27/01



Coaxial Explosion Proof Generator

1. Input : On Board Battery, 25Volts to 28 Volts
2. Output : 40kV Pulse
3. Dimension : Dia: 180mm; Length : 680mm
4. Type No : Z/24/110 (625)



High Voltage Trigger Generator

1. Input : 230volts 50Hz1Ø
2. Output : 450V/ 540V/ 630V / 1000V
3. Duty : Continuous
4. Type : Z/23/52, Z/14/91, S/15/12 to be used with our Pulse Transformer ZPT-100, ZPT-400, ZPT-600, ZPT-800, ZPT-1000, 10kV , 20kV, 30kV, 40kV, 100kV



Auxiliary Support Unit (ASU)

1. Input : Pulse of 600 volts, 2 to 3 μ Sec
2. Energy : 10 Joules maximum
3. Energy of spark gap : \approx 20 Joules
4. Voltage : Pulse of \geq 24kV output
5. Application : Ignition of systems
6. Type No. : Z/16/2/3



High Voltage Triggered Modules

1. Spark Gap : 3 Terminals
2. Capacitor : 25kV / 0.150 μ F
3. Decoupling capacitor : 500pF /30kV
4. Trigger Transformer : 15kV Output
5. Trigger Generator : Low cost system
6. Type No. : Z/33/146, Z/33/196, S/17/118

Applications

There are so many applications like detonation, laser activation, firing of spark gaps, applications of crowbar in radar where this kind of systems are used.

Specifications

Every transformer has got its own specifications depending upon the application, the dimensions like diameter, height, length, overall dimensions keep changing.

We make transformers right up to 250kV Pulse generation transformer and some of them are Oil filled as well as some of them are moulded versions.

Advantages

We at Zeonics design and develop custom built trigger system which exactly work at the required primary secondary voltage and the current requirement, certain fast rise time transformer also are designed to ensure that the required rise time and pulse widths are achieved for particular application.

Also everything is made within the country using different kind of cores like perm alloy core, Ferrite core, Nickle Alloy and different cores are used.

We also manufacture air based transformers which give fast rise times, co-efficient of coupling is always taken into consideration and maximum power transfer also is designed when the design is made.

Installation

Several transformers and trigger systems have got their own requirements of installation and commissioning and depending upon their requirement they are manufactured and installed as and when necessary in specific structures. Also transformers are sometime designed for insitu fitting and can generate sufficient amount of space factor for critical assemblies by which they can be made very compact.

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