

PRODUCT FAMILY

ELECTRONIC IGNITION SAFETY DEVICE

The eISD is used for mission critical applications where a reliable initiation device that can be networked from a central ESAD can be utilized for multi-point initiation. This architecture saves the customer weight and cost by utilizing one set of common sensors to share among multiple ignition safety devices. Traditionally, each eISD would have its own accelerometer and other environmental sensors. In addition to ignition systems this technology is directly applicable to fuzing applications. The safety requirements for multi-point fuzing is the same as for ignition. The differences are the utilization of a detonating EFI rather than a deflagrating EFI in each remote ESAD.



eISD SPECIFICATIONS

- Dynamic Inhibit:** The proper sequence of ENABLE and ARM will remove the dynamic inhibit
- Ordnance Power:** 28 VDC
- Arm:** 10vac signal created from a safety switch
- Enable:** 30Bit encoded digital signal created from a proper Acceleration Profile
- Fire:** SEA network bus, serial bus with 4 analog levels and encoded signals for device selection, status and FIRE
- Time to First Pressure:** <4 milliseconds
- Output Pressure:** 600 to 1500 psia (10cm3 test bomb)
- No-Fire:** ≥ 500 Volts, 0.001 probability to fire at 95% SS lower confidence
- Backpressure:** Capable of withstanding up to 10kpsi
- Packaged Weight:** backpressure
- Operating Temperature:** 37-50 grams
-54 °C to +71 °C

SERIES 100 SPECIFICATIONS

- Arm:** Input Signal of varying voltage interfaces available
- Enable:** Input Signal of varying voltage interfaces available
- FIRE:** Input Signal of varying voltage interfaces available

ENVELOPE & DIMENSIONS

