



Microcross continues to offer our First Generation (Technograph) NED for legacy or new equipment requiring cost-effective nuclear protection. The First Generation NED provides an output in response to gamma radiation, that is used to protect sensitive electronic circuitry.



KEY FEATURES

- Gamma Dose Rate Sensitivity Threshold Range Adjustable from 10^6 to 10^7 cGy/s at 25°C
- Dual In-Line Package
- Open Collector Outputs
- Radiation Specifications
 - Total Dose (Device Survivability): 1×10^4 cGy/s
 - Dose Rate (Operate Through): 2.5×10^9 cGy/s
 - Neutron Fluence (Operate Through): 10^{12} neutrons / cm^2
- 5V Power Requirement
- -55°C to +125°C Extended Full MIL-Temperature Range
- BS9450 General Level or MIL-STD-883C Method 5008 Class B Screening Levels

BENEFITS

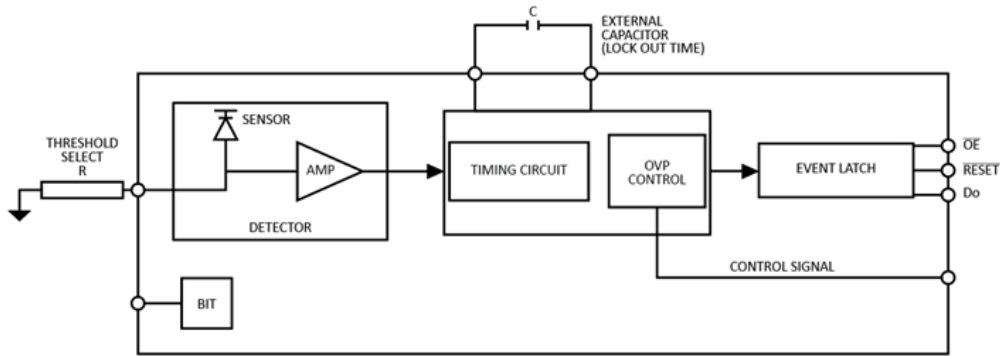
- Cost Effective Solution for Nuclear Event Protection
- User Adjustable Delay or “Lock-Out” Time, Selected by Choice of Single External Capacitor
- Use Output Signal to Shut Down Power Supplies, Take Processors Off-Line and Block Memory Write Operations
- Incorporated Event Latch Offering Interfacing with the System Bus, Initiating Software Recovery, or Alerting the CPU

APPLICATIONS

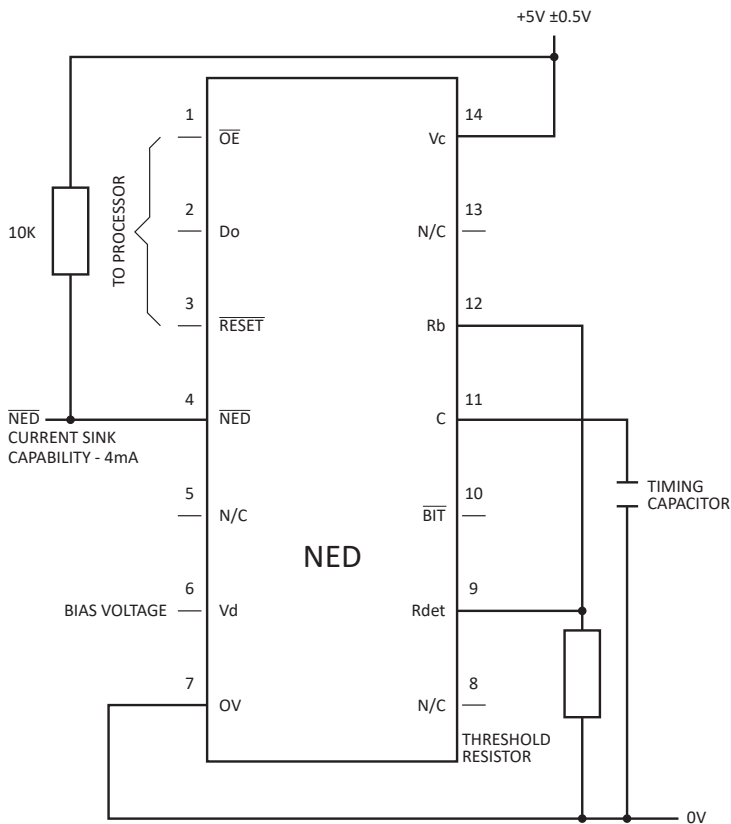
- Aircrafts and Drones
- Defense Weapon Systems
- Satellites
- Military Ground Vehicles
- Nuclear Material Storage

First Generation NED (Technograph)

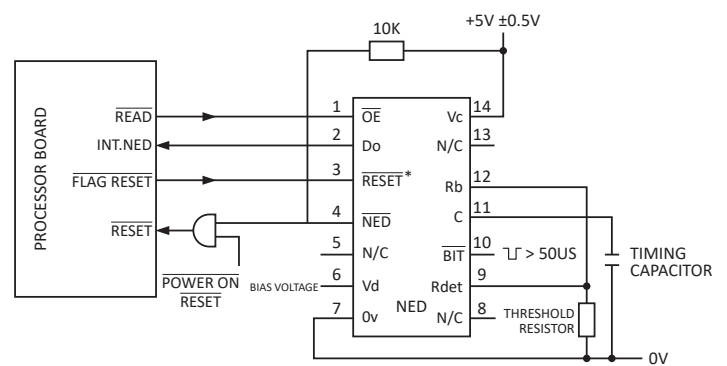
BLOCK DIAGRAM



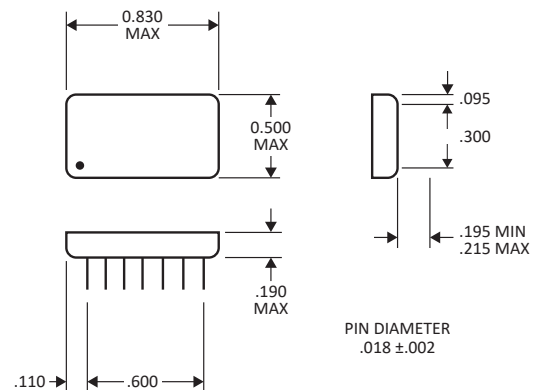
PINOUT DIAGRAM



PROCESS PROTECTION DURING EVENT



MECHANICAL OUTLINE



ORDERING INFORMATION

MP13366/002

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