

Reed Switches and Custom Components – Security Market



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Standex-Meder manufactures a wide variety of products used in security and fire detection/suppression systems. We are a world leader in the manufacture of magnetic reed switches for security and fire detection systems, as well as wound magnetics including custom transformers.

Reed Switches are broadly applied in the security industry to monitor door and window position and are also used in glass break detection applications, all important in building perimeter protection. In fire detection systems Reed Switches are used in smoke detector test circuits. In reed relays, Reed Switches are applied in many security and fire detection control modules.

Our unique production processes yield Reed Switches with very tight magnetic, mechanical and electrical properties. This allows us to provide very tight ranges of magnetic sensitivity (AT) with a minimal impact on material cost. In depth application assistance is available worldwide.

Many applications for Reed Switches in the security marketplace require value added reed switch assemblies such as molded SMT packages as assembly of these systems becomes more automated.

Our wound magnetic product lines contain many custom transformer products with agency registrations required by this industry. Typical applications for wound transformers include power supply applications in fire and security control panels. These applications include control panels and control panel enclosures for CCTV cameras as well as building entry systems.

Typical applications for transformers and assemblies in fire and security systems:

- CCTV power supply enclosure
- Security control panel power
- Fire detection control panels
- Building access systems with building intercom and electric door strike features
- Key fob interface antennas for automotive security applications

Magnetic Reed Switch applications:

- Proximity sensors
- Reed relays
- Door and window protection sensors
- Glass break detection
- Smoke detector test switches

Magnetic Reed switch features important for Security applications include:

- Glass lengths as short as 3.7mm
- DV testing with customer specified electrical loads
- Switching of microvolt levels to 15,000 VDC
- Dry switching to 70VA power switching
- Standard AT (Ampere Turn) ranges as low as 3/5 AT
- Magnetic sensitivities range from 3AT to 100AT
- Operate times as low as 0.2 milliseconds
- Standard SMT packages
- Power Supply & Other Systems Engineering
- Our manufacturing facilities are Registered to ISO/TS16949:2002
- ISO/TS16949:2002 registriert



Product Solutions

Capabilities include:

- Sensor & Reed Switch Design and Manufacturing Engineering
- Mechanical Engineering & Electronic Component Packaging
- 3-D Solid Modeling Design
- Plastic Molding capabilities
- Experienced in UL, CSA, IEC, TUV & VDE Standards
- Rapid Prototyping
- Magnetic Component Engineering
- Power Supply & Other Systems Engineering
- Hi-volume, Progressive Die Stamping
- Glass to Metal Sealing
- Laser Welding
- Wire Prep and Wire Harness Assembly
- 52ga-8ga & Foil Magnetic Component Winding
- Wind and Assemble all core shapes and types including Laminated
- Connector & Terminal Engineering

Laboratory test capabilities for Security applications:

- Thermal Shock Testing (-70°C to 200°C, LN2 boost assures less than a 5 minute air temperature recovery time)
- Thermal Cycle Testing (-68°C to 177°C)
- Humidity Testing (-18°C to 93°C, 98% RH, cycle temp or steady state)
- Vibration Testing (Sine or Random profile, 1" pkpk displacement, 0 to 80 g pk, 5 to 2000 HZ)
- Mechanical Shock Drop Testing (½ sine 50g 11ms, ½ sine 1500g .5ms, or sawtooth 100g 6ms)
- Hi Temp Testing (Up to 260°C)
- Salt Fog Testing
- Solderability Testing

The Oakville lab facility is approved as a
Witness Testing Location by the following agencies:

- Canadian Standards Association (CSA)
- Underwriters Laboratories
- Intertek Testing Services (ETL)
- TÜV Rheinland®



Reed Switches are used for applications such as "door/window open" detection and proximity switches for machine safety applications



SMD Magnetic Reed Switch for Intrusion applications such as glass break detector



Recessed Door position Sensor



Plug-in Transformer for Fire or Security Systems Power



Transformers for Fire, Security or CCTV Camera Power



Cored connected class 2 transformer



Motorcycle Security System Antenna



Ignition cutoff safety switch