

SENSORS FOR TAMPER DETECTION

TE Connectivity's polyvinylidene fluoride (PVDF) tamper detection sensors offer a complete solution in a space efficient form factor for the detection of physical tampering in small, high security enclosures. The sensor comes in the form of a multi-layer laminate that wraps around the electronics area requiring protection. Once properly adhered and connected, any attempt to physically open or penetrate the enclosure will trigger a detection. Detection of a tamper attempt can result in a customer-specified reaction such as the erasure of critical data, like encryption keys, or disabling the overall system. These tamper detection sensors are designed to allow the user to achieve FIPS 140-2 level 4 physical security compliance while meeting their specific requirements.

SENSOR TECHNOLOGIES



Piezo

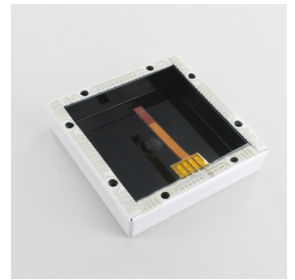
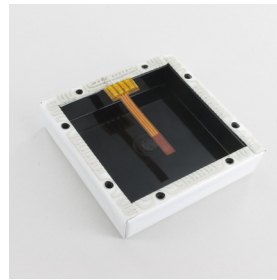
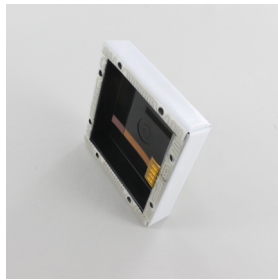


APPLICATIONS

- Military/Defense
- Secure Electronics
- Telecommunications Equipment
- High Security Systems
- Key Loader
- Cryptographic/Encryption Device
- Hardware Security Module
- Data Center and Server Protection
- Credit Card Terminal
- Security Panel

SENSORS FOR TAMPER DETECTION

Sensor Model	Key Product Features	Benefits
Tamper Detection Sensor	<ul style="list-style-type: none"> FIPS 140-2 Level 4 Certification ITAR Compliant X-rays do not reveal electrical configuration High security Space efficient protection Ultra-low power consumption Easy to apply Full customization to meet customer's specific requirements and geometries 	<ul style="list-style-type: none"> Physical tamper-proof enclosure Detection of physical breach results in customer-specified action Tailored to meet customer-specific requirements Compatibility with customer housing Long history of expert engineering support Mass production and scalability Assembled to preference



TECHNICAL SPECIFICATIONS	
Operating Temperature	-40°C to 85°C
Interface Options	ZIF Connectors Zebra Connectors Anisotropic Tape
Typical Monitoring Circuit	2 Pins for each Serpentine 2 Pins for the Drill Plates
Minimum Size (h,w,l)*	1.5" x 2" x 2"
Maximum Size (h,w,l)*	1.5" x 8" x 8"
Typical Enclosure Material	Aluminum w/ Hard Coat Anodization, Insulated Metals, Engineered Plastics
Typical Thermal Conductivity [W/(mK)]	0.19

*Other sizes available, please inquire

te.com/sensors

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