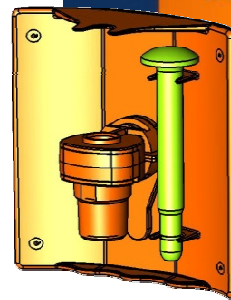


RFID e-Seal for Global Supply Chain Security and Visibility

Winner of the 2008 Motorola APAC RFID Innovation Award, the Secura Shield SC-220 e-Seal combines a high security bolt seal and a Gen 2 UHF passive RFID tag to deliver supply chain security and visibility in one simple package. The patented technology and sound engineering offers you a tough, maintenance free product that provides reliable performance over a long read range. Secura Shield's EPC compliance means you can use any EPC compliant reader to get information back to your system – permitting a timely response to supply chain issues.

Benefits and Features in Brief

- Provides logistic supply chain visibility, strengthens Quality Assurance and facilitates green lane access through progressive event tracking.
- Provides early identification of tampering – the intact status of the container may be checked at multiple locations throughout the supply chain.
- Globally compliant device usable anywhere.
- Meets industry standards for mechanical seals, passive RFID devices and Homeland Security initiatives.
- Perfect for Customs Underbond movements and empty container quarantine validation.
- Maintenance free, reliable read range over a wide read angle.
- Applications include all intermodal transport containers for ships, trucks, and railroad cars.



Valuable Visibility

With the increase in offshore manufacturing and global markets it is essential to know where your stock is and what it's doing.

Every time a Secura Shield e-Seal passes an EPC reader your information system is updated with its location and status, allowing you to streamline your logistics system, lower costs and impact your bottom line.

Visibility is the foundation for all process improvements and therefore the foundation for all savings.

Global Compatibility

The Secura Shield e-Seal operates in the UHF 860 – 960 MHz band so it can be used internationally without radio frequency issues.

Furthermore, the e-Seal is EPC Gen 2 compliant. This means its electronic product code meets the standards of the worldwide



EPC Network, allowing the e-Seal to be read with any EPC compliant RFID reader and used with any EPC compliant information system.

Robust Versatility

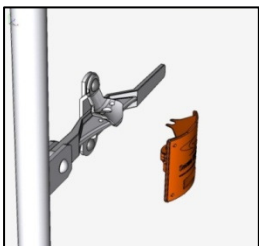
Secura Shield's e-Seal has been carefully designed to survive the rugged environment of global transport.

The curved design provides a reliable and wide read angle, and being a passive seal, it doesn't require batteries to maintain the signal strength.

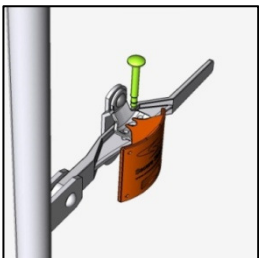
Meeting the Standards

Secura Shield is an ISO/PAS 17712 container and truck seal compliant with all Homeland security initiatives (C-TPAT (bolt), OSC, CSI and 24 Rule). The RFID component meets the ISO/IEC 18000-6 standard for item level tracking.

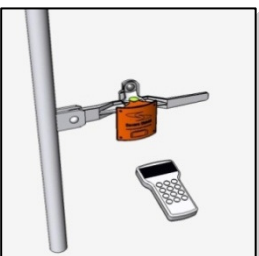
Off-On-Off Functionality



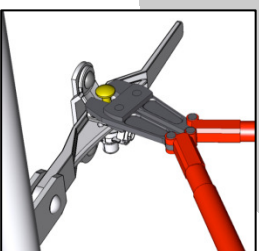
Stage 1: Without the bolt in place, the e-Seal cannot be read. At this point, it is off.



Stage 2: The physical action of locking the seal activates the RFID tag which now returns a signal when interrogated. Once a signal is received, the container is considered sealed and ready for dispatch and the manifest can be associated with the unique EPC number on the e-Seal.



As the goods pass through read points, you and the relevant parties in your supply chain can be electronically updated. Secura Shield's tracking application can be programmed to respond to various business triggers. For example, if a read is not received within a certain timeframe, the software will send an alert so the situation can be inspected and remedied. Confirmation of status can speed up customs processes and accelerate labour intensive activities.



Stage 3: Any attempt to remove the e-Seal destroys the circuit. This may declare the end of the journey or indicate tampering.

Specifications

Physical Characteristics

Tag Dimensions: 10 cm H x 10 cm W x 5 cm D
4 in H x 4 in W x 2 in D

Bolt Size: 9mm (3/8") diameter shaft
19mm (3/4") diameter head

Weight: 180 g

Material - Bolt: Carbon Steel with Zinc Chromate finish

Material - Seal: ABS PolyCarbonate

Performance Characteristics

Operating Frequency: UHF band, 860-960 MHz

RF Air Protocol: EPCglobal Gen 2

Functionality: Read (Write optional)

Memory: 128 bit (512 bit optional)

Read Rate: 1,000 tags per second

Read Speed: Up to 50 km/hr

Read Range: 7 - 10 metres *

Av. Pull Apart Force: 2,138 kg : 21.0 kN (4,713 lbs)

Av. Shear Force: 2,484 kg : 24.4 kN (5,477 lbs)

Av. Impact Force: 41 - 53 Nm (30 - 39 ft/lb)

Compliance

Bolt: C-TPAT ISO/PAS 17712

RFID: ISO/IEC 18000-6

Homeland Security: OSC, CSI and 24 Rule

Other Features

Anti-Collision Protection

* Actual results may vary based upon RFID reader model and environmental conditions.

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