Seal Tag

**RFID TAGS WITH INTEGRATED FASTNERS PREVENT TAMPERING WITH THE CONTENTS OF SEALED CONTAINERS**

- **Security** - RFID tags integrated into visually tamper-evident container seals
- **Adaptability** - Small and flexible to serve a wide range of applications
- **Easy application** - Attach quickly with integrated cable tie or wire loop
- **Clear evidence** - Visual recognition of seal status, with option of RFID reader detection of seal security or breach

HID Global® Seal Tag transponders are ideal for sealing commercial containers – bags, bins or boxes – to prevent unauthorized access to contents while in storage or during distribution. Seal Tag units integrate powerful RFID chips with high durability components, and secure, tamper-evident fasteners. Access to a sealed container’s contents requires severing a tag’s cable tie or wire loop – or breaching of the container itself – providing clear evidence of tampering.

**TECHNOLOGY HIGHLIGHTS:**
- Integrated, secure fastening device
- HF 13.56 MHz version readable with ISO/IEC 15693 or ISO/IEC 14443A compatible devices incl. NFC and HID Trusted Tag® Services
- Broadband RAIN UHF version for worldwide use at 860 to 960 MHz
- Fully interoperable, standards compliant
- Visually, electrically and digitally tamper evident options
- Custom encoding or laser engraving on housing

**APPLICATION AREAS:**
- Asset tracking and logistics
  - Industrial bags, sacks and containers
  - Merchandise distribution and retailing
  - Life safety equipment maintenance,
- Returnable transport items
  - Reusable shipping vessels, cartons, bags, and canisters
- Waste management
  - Hazardous waste receptacles

**eTamper tags**
Each uniquely encoded Seal Tag eTamper RFID unit attaches anywhere a cable tie can be used, providing visual evidence when that seal is broken. Being waterproof, they have high resistance to aggressive liquids, UV rays, and temperature extremes. Thermoplastic polyurethane (TPU) housings tolerate repeated bending or torsion. Bright colors provide excellent contrast for optical identification when laser engraved or embossed with logos, barcodes or text. Highly rugged on-metal options exist as well.

**edTamper tags**
Seal Tag edTamper are tamper evident passive contactless RAIN UHF transponders allowing detection of their seal status via RFID. Visualizing the tag is not necessary to identify broken seals. The edTamper tags provide a digital notification if a sealed tag has been compromised to quickly scan large sets of sealed items for integrity.

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## SPECIFICATIONS

### Seal Tag

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#### Base Model Number
- 7A1941-001 (DESFire)
- 7H5941-101 (TTS)

#### Operating Frequency
- 13.56 MHz
- 860-960 MHz (Worldwide)

#### Chip Type
- MIFARE DESFire EV1
- HID Trusted Tag (TTS)
- ICODE SLix
- Higgs 3
- Higgs 4
- UCODE G2iM+

#### Memory
- 4.096 bytes (DESFire)
- 8.096 bytes (TTS)
- 1024 bit EEPROM
- 512 bit user memory + 96 bit EPC + 64 bit TID
- 128 bit user memory + 128 bit EPC + 64 bit TID
- 512 bit user memory + 96 bit EPC + 64 bit TID
- 12 bit user memory + 256 bit EPC + 96 bit TID

#### Anti-Collision
- Yes

#### Reading Distance
- 2 W reader ERP, free space
- Up to 26 ft (8 m)
- Up to 32.8 ft (10 m)
- Up to 32.8 ft (10 m)
- Up to 16.4 ft (5 m)
- Up to 6.6 ft (2 m)

### PHYSICAL

#### Dimensions
- 1.5 × 1.5 × 0.3 in (39 × 39 × 8.5 mm)
- Tag: 0.9 × 0.7 × 0.1 in (23 × 18 × 3 mm)
- Seal wire: 2.5 in (65 mm)
- Cable tie: 2.5 in (65 mm)
- Tag: 3.3 × 1.0 × 0.1 in (85 × 25 × 3 mm)
- Cable tie: 15.0 × 0.7 × 0.1 in (380 × 6 × 2 mm)
- Tag: 1.53 × 0.55 × 0.14 in (39 × 14 × 3.6 mm)
- Seal wire: 3.07 in (78 mm)

#### Mounting Method
- Sticker
- Integrated wire loop
- Integrated cable tie

#### Affixes To
- Any material (hanging in free air)

#### Housing Material
- Polycarbonate
- TPU / Cable tie: Nylon 6.6
- High-impact plastic / Cable tie: Nylon 6.6
- PC/ABS

#### Color
- Black (DESFire)
- White (TTS)
- White
- Yellow (Pantone 108)
- Black
- White

#### Weight
- 0.18 oz (5.25 g)
- 0.04 oz (1 g)
- 0.42 oz (12 g)
- 2.33 oz (66 g)
- 0.08 oz (2.2 g)
- 0.07 oz (2 g)

### CHEMICAL AND MECHANICAL RESISTANCE

#### Water
- IP65
- IP68, 68°F (20°C), 6.6 ft (2 m) x 24 h

#### Withstands Exposure To
- Mineral oil, petroleum, salt mist, vegetable oil, HCL (10%), Bleach (5%); UV light

#### Environmental Test Conditions
- 68°F (20°C), 100 h

#### Flame Resistance
- UL94VO (self-extinguishing)

#### Vibration
- IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axes, 2.5 h]

#### Shock
- IEC 68.2.29 (40 g, 18 axes, 6 axes, 2000 times)

#### Impact
- IEC 62262-IK06
- IEC 62262-IK08
- IEC 62262-IK06

#### Axial / Radial Force
- > 150 N
- > 10 N
- > 150 N
- > 10 N
- > 550 N
- > 780 N
- > 65 N
- > 10 N

#### Pull Resistance
- 5.9 in (150 mm)
- 5.9 in (150 mm)
- N/A
- N/A

#### Tag Bending
- N/A
- 1000 N, 10 sec
- 500 N, 10 sec

#### Storage
- -40° to +194° F (-40° to +90° C)
- -40° to +158° F (-40° to +70° C)

#### Operating
- -13° to +158° F (-25° to +70° C)
- -40° to +185° F (-40° to +85° C)
- -40° to +194° F (-40° to +90° C)

#### Shock / Fatigue
- -40° to +194° F (-40° to +90° C)
- 100 x 5 min with 30 sec transition

#### OTHER

#### Standards
- ISO/IEC 14443A, NFC Forum Type 4
- ISO/IEC 15693, 18000-3 Mode 1, NFC Forum Type 5
- UHF EPC Class 1 Gen 2, ISO 18000-6C

#### Options
- Printed Logo, Encoding, Color
- Encoding, laser engraving, alternate colors

#### Box Size
- 1,000 pcs
- 300 pcs
- 1,000 pcs.
- 100 pcs
- 1,500 pcs.
- 800 pcs

#### Warranty
- 2 Years

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