



Seal Tag



RFID TAGS WITH INTEGRATED FASTENERS 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

TECHNOLOGY HIGHLIGHTS:

- Integrated, secure fastening device
- HF 13.56 MHz version readable with ISO/IEC 15693 compatible devices incl. NFC
- Broadband RAIN UHF version for worldwide use at 860 to 960 MHz
- Fully interoperable, standards compliant
- Visually or electrically tamper evident options
- Custom encoding or laser engraving on housing

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.

RAIN® UHF Seal Tag closures can be identified from up to 26 ft (8 m), enabling entire loads of sealed containers to be read as trucks pass through stationary readers.

HF Seal Tags can be identified and updated with handheld readers and ISO 15693 compatible NFC Type 5 (NFC-V) devices.

vTamper tags

Each uniquely encoded Seal Tag vTamper 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 elastomer (TPE) housings tolerate repeated bending or torsion. Bright colors provide excellent contrast for optical identification when laser engraved or embossed with logos, barcodes or text.

eTamper tags

Each Seal Tag eTamper NFC-V transponder becomes operational when its wire loop is securely closed. If the wire loop is broken, the tag is permanently unreadable, leaving evidence detectable both visually and via RFID.

eTamper tags may also be used as an “intelligent” seal for life safety device cabinets, including fire extinguishers and automated external defibrillators (AED). In these applications, the wire loop reliably seals containers, but is easily broken when emergency devices are needed, or during routine maintenance checks.

SPECIFICATIONS



APPLICATION AREAS:

- Asset tracking and logistics
 - Industrial bags, sacks and containers
 - Merchandise distribution and retailing
 - Life safety equipment maintenance, e.g. fire extinguishers, automated external defibrillators (AED)
- Returnable transport items
 - Reusable shipping vessels, cartons and canisters
- Waste management
 - Hazardous waste receptacles



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	Seal Tag			
	eTamper	vTamper		
	HF	HF	UHF	UHF Mini
Base Model Number	629960 (no logo) 629960-020 (UID QR-Code)	729990-202	798990-202	69899A-202
ELECTRONIC				
Operating Frequency	13.56 MHz		860-960 MHz (Worldwide)	
Chip Type	ICODE SLiX		Higgs 3	
Memory	1024 bit EEPROM		512 bit user memory + 96 bit EPC + 64 bit TID	
Anti-Collision	Yes			
Reading Distance 2 W reader ERP, free space	N/A		Up to 26 ft (8 m)	Up to 16.4 ft (5 m)
PHYSICAL				
Dimensions	Tag: 0.9 × 0.7 × 0.1 in (23 × 18 × 3 mm) Seal wire: 2.5 in (65 mm)	Tag: 3.3 × 1.0 × 0.1 in (85 × 25 × 3 mm) Cable tie: 15.0 × 0.3 × 0.1 in (380 × 6 × 2 mm)		Tag: 2.4 × 0.5 × 0.08 in (60 × 12 × 2 mm) Cable tie: 7.8 × 0.1 × 0.05 in (200 × 2.5 × 1.2 mm)
Mounting Method	Integrated wire loop	Integrated cable tie		
Affixes To	Any material (hanging in free air)			
Housing Material	Polycarbonate	Tag: TPE / Cable tie: Nylon 6.6		
Color	White	Tag: Yellow (Pantone 108) Cable tie: black		Tag: White Cable tie: Black
Weight	0.04 oz (1 g)	0.42 oz (12 g)		0.08 oz (2.2 g)
CHEMICAL AND MECHANICAL RESISTANCE				
Water		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			
Vibration	IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]			
Shock	IEC 68.2.29 (40 g, 18 ms, 6 axis, 2000 times)			
Impact		IEC 62262-IK06		
Axial / Radial Force	1000 N, 10 sec			
Pull Resistance	> 10 N	> 550 N		> 65 N
Tag Bending	N/A	5.9 in (150 mm) curve radius		
THERMAL				
Storage	-40° to +194° F (-40° to +90° C)	-40° to +158° F (-40° to +70° C)		
Operating	-40° to +185° F (-40° to +85° C)	-40° to +158° F (-40° to +70° C)		
Shock / Fatigue	-40° to +194° F (-40° to +90° C) 100 x 5 min with 30 sec transition	-40° to +158° F (-40° to +70° C) , 100 x 5 min with 30 sec transition		
OTHER				
Standards	ISO/IEC 15693, 18000-3 Mode1, NFC Forum Type 5		UHF EPC Class 1 Gen 2, ISO 18000-6C	
Options	Encoding, laser engraving, custom embossed logo, alternate colors			
Box Size	250 pcs	1,000 pcs.		1,500 pcs.
Warranty	2 Years			

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