



Seal Tag



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, 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, e.g. Airplane life vests, fire extinguishers, automated external defibrillators (AED)
- Returnable transport items
 - Reusable shipping vessels, cartons and canisters
- Waste management
 - Hazardous waste receptacles

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

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.

vTammer tags

Each uniquely encoded Seal Tag vTammer 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.

eTammer tags

Each Seal Tag eTammer 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.

eTammer 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.

edTammer tags

Each Seal Tag edTammer 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 edTammer tags provide a digital notification if a sealed tag has been compromised to quickly scan large sets of sealed items for integrity.

SPECIFICATIONS

	Seal Tag				
	eTamper	vTamper			edTamper
	HF	HF	UHF	UHF Mini	UHF
Base Model Number	629960 (no logo) 629960-020 (UID QR-Code)	729990-202	798990-202	69899A-202	6E5961
ELECTRONIC					
Operating Frequency	13.56 MHz		860-960 MHz (Worldwide)		860-960 MHz (Worldwide)
Chip Type	ICODE SLix		Higgs 3		UCODE G2iM+
Memory	1024 bit EEPROM		512 bit user memory + 96 bit EPC + 64 bit TID		112 bit user memory + 256 bit EPC + 96 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)	Up to 6.6 ft (2 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)	Tag: 1.53 × 0.55 × 0.14 in (39 × 14 × 3.6 mm) Seal wire: 3.07 in (78 mm)
Mounting Method	Integrated wire loop	Integrated cable tie			Integrated wire loop
Affixes To	Any material (hanging in free air)				
Housing Material	Polycarbonate	Tag: TPE / Cable tie: Nylon 6.6			PC/ABS
Color	White	Tag: Yellow (Pantone 108) Cable tie: black		Tag: White Cable tie: Black	White
Weight	0.04 oz (1 g)	0.42 oz (12 g)		0.08 oz (2.2 g)	0.07 oz (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				
Flame Resistance					UL94V0 (self-extinguishing)
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			500 N, 10 sec
Pull Resistance	> 10 N	> 550 N		> 65 N	> 10 N
Tag Bending	N/A	5.9 in (150 mm) curve radius			N/A
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 Mode 1, NFC Forum Type 5		UHF EPC Class 1 Gen 2, ISO 18000-6C		
Options	Encoding, laser engraving, custom embossed logo, alternate colors				Encoding, laser engraving
Box Size	300 pcs	1,000 pcs.		1,500 pcs.	800 pcs
Warranty	2 Years				



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