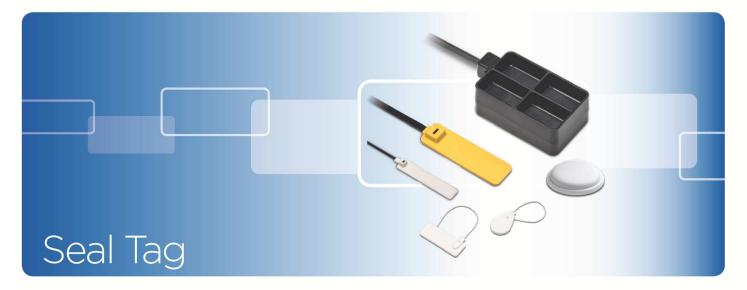
INDUSTRY AND LOGISTICS







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
- 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 canister
- Waste management
 - Hazardous waste receptacles

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.

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 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.

eTamper tags

Each Seal Tag eTamper NFC transponder becomes operational when its wire loop is securely closed or the disc sticker is applied. If the wire loop is broken, the tag is permanently unreadable, leaving evidence detectable both visually and via RFID. The printable coin form factor features the same eTamper functionality: The antenna breaks when the coin is removed - ideal for "proof of presence" applications or payment schemes.

eTamper tags may also be used as an "intelligent" seal for life safety device cabinets, including fire extinguishers, automated external defibrillators (AED) or other equipment that benefits from trusted maintenance.

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.



			Seal Tag				
	eTamper		vTamper				edTamper
	Coin	Teardrop	HF	U	HF	UHF Mini	UHF
Base Model Number	7A1941-001 (DESFire) 7H5941-101 (TTS)	629960	729990-202	798990-202	7F2900	69899A-202	6E5961
			ELECT	RONIC			
Operating Frequency		13.56 MHz		860-960 MHz (Worldwide)			
Chip Type	MIFARE DESFire EV1 HID Trusted Tag (TTS)	ICOD	E SLIx	Higgs 3	Higgs 4	Higgs 3	UCODE G2iM+
Memory	4.096 bytes (DESFire) 1024 bit EEPROM .096 bytes (TTS)		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	112 bit user memo + 256 bit EPC + 9 bit TID	
Anti-Collision	Yes						
Reading Distance 2 W reader ERP, free space		N/A		Up to 26 ft (8 m)	Up to 32.8 ft (10 m)	Up to 16.4 ft (5 m)	Up to 6.6 ft (2 m
			PHYS	SICAL			
Dimensions	(23 × 18 × 3 mm) Cable ti (39 × 39 × 8.5 mm) Seal wire: 2.5 in (65 mm) (38		Cable tie: 15	l in (85 × 25 × 3 mm) .0 × 0.3 × 0.1 in 6 × 2 mm)	Tag: 3.5 × 2.2 × 1.4 in (89 × 56 × 35 mm) Cable tie: 17.1 × 0.4 × 0.08 in (450 × 9 × 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 i (39 × 14 × 3.6 mm Seal wire: 3.07 in (78 mm)
Mounting Method	Sticker	Integrated wire loop		Integrat	ed cable tie		Integrated wire loop
Affixes To				Any material (hanging in free air)			
Housing Material	Polycarbonate		Tag: TPU / Cable tie: Nylon 6.6		Tag: High-impact plastic / Cable tie: Nylon 6.6	Tag: TPU / Cable tie: Nylon 6.6	PC/ABS
Color	Black (DESFire) White (TTS)	White		(Pantone 108) tie: black	Black	Tag: White Cable tie: 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)
		С	HEMICAL AND MECH	ANICAL 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							UL94V0 (self-extinguishin
Vibration	IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]						
Shock				2.29 (40 g, 18 ms, 6 axis, 2000 times)			
Impact			IEC 62	262-IK06	IEC 62262-IK08	IEC 62262-IK06	
Axial / Radial Force				1000	N, 10 sec	T	500 N, 10 sec
Pull Resistance	> 150 N	> 10 N	> 5	550 N	> 780 N	> 65 N	> 10 N
Tag Bending	N,	/A		(150 mm)	N/A	5.9 in (150 mm)	N/A
			THEF	RMAL			
Storage	-40° to +194° F -13° to +158° F	(-40° to +90° C) -40° to +185° F			o° to +158° F (-40° to +		
	(-25° to +70° C)	(-40° to +85° C) -40° to +194° F (-40° to +90° C)	-40° to +158° F (-40° to +70° C)				
Shock / Fatigue		100 x 5 min with 30 sec transition	-40° to +158° F (-40° to +70° C) , 100 x 5 min with 30 sec transition				
				HER			
Standards	ISO/IEC 14443A, NFC Forum Type 4		18000-3 Mode 1, Im Type 5	UHF EPC Class 1 Gen 2, ISO 18000-6C			
Options	Printed Logo, Encoding, Color	Encoding, laser engraving, alternate colors					00-
Box Size	1,000 pcs	300 pcs	1,00	00 pcs.	100 pcs	1,500 pcs.	800 pcs
Warranty				2 Years			









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