Seal Tag edTamper

Detect tampering of broken seals without line of sight.

HID Global's Seal Tag edTamper are tamper evident passive contactless Trusted Tag NFC RAIN® RFID UHF transponders allowing detection of their seal status via RFID.

The NFC label utilizing HID Trusted Tag technology is designed to protect the content of containers like bottles or boxes by indicating an eventual opening of that container along with the secure authentication message the tag provides upon every NFC tap. No special app is required on the tapping phone.
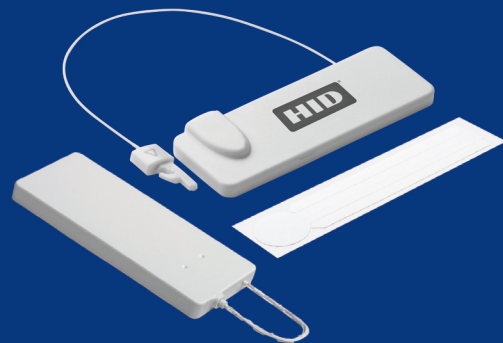
With RAIN® RFID technology, visualizing the tag is not necessary to identify broken seals. The edTamper tags-provide a digital notification if a sealed tag has been compromised to quickly scan large sets of sealed items for integrity. Typical applications include sensitive and highly-secure items like, aircraft life vests or weapon/equipment racks that require periodic safety and security checks.

Seal Tag edTamper are easily affixed by closing the robust wire loop through an opening similar to securing a padlock. After being sealed, a bit in the tag's memory indicates this status and can be detected with standard RAIN RFID readers.

Once secure, the loop cannot be opened without breaking the wire. However, the pull strength has been optimized so that a human can break it when needed (e.g. to pull out the life vest), but the tag does not accidentally open.

The Seal Tag edTamper will continue to send its ID, but in addition digitally alerts a different status if the seal is compromised. Therefore, identifying a broken seal among a large amount of sealed items is quick and easy with the swipe of a UHF reader. This unique feature is in contrast to visually tamper evident tags that need physical examination to detect a broken loop or electrically tamper evident tags that stop working when the seal is broken.

HID Global SealTag edTamper in RAIN® RFID are available in two form factors. The smaller one meets ATA Spec 2000 and other related standards to allow usage on aircrafts and is flame resistant (self-extinguishing). The larger one has been designed for tagging weapons and similar objects. Tags may be ordered personalized with custom encoding, laser engraved logos, Bar-/ QR-code or text.
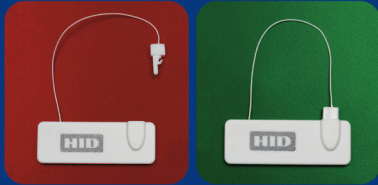
KEY FEATURES:

- Quickly detect and locate broken seals via RAIN® RFID
- Trusted Tag NFC or RAIN RFID options
- Fast and efficient to apply

TECHNOLOGY HIGHLIGHTS:

- Digital Tamper Evident – indicates broken seal via RFID
- HID Trusted Tag NFC or RAIN RFID
- UHF Read range up to 13.1 ft (4 m)
- Meets NFC, UHF and aircraft standards
- Custom laser engraving and encoding options
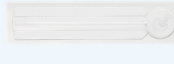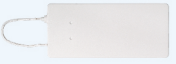
HID

Seal Tag
edTamper

Seal Tag edTamper UHF provides
current seal loop status via RFID

APPLICATION AREAS
Asset tracking & Logistics

- Airline life vest status check
- Weapon rack access check
- Fire extinguisher / AED maintenance
- Brand protection and bottle or box open detection (Trusted Tag NFC

	edTamper		
	HF	**UHF**	
Base Model Number	6I6503-101	6E5961	6K2963
ELECTRONIC			
Operating Frequency	13.56 MHz	860-960 MHz (Worldwide)	
Chip Type	HID Trusted Tag (TTS)	UCODE G2iM+	EM | AURA
Memory	144 byte EEPROM	112 bit user memory + 256 bit EPC + 96 bit TID	2 kbit user memory + 416 bit EPC + 48 bit TID
Anti-Collision	Yes		
Reading Distance 2 W reader ERP, free space	N/A	Up to 6.6 ft (2 m)	Up to 13.1 ft (4 m)
PHYSICAL			
Dimensions	4.6 × 0.9 in (118 × 23 mm)	Tag: 1.53 × 0.55 × 0.14 in (39 × 14 × 3.6 mm) Seal wire: 3.07 in (78 mm)	Tag: 3.74 × 1.67 × 0.31 in (95 × 42.5 × 8 mm) Seal wire: 3.15 in (80 mm)
Mounting Method	Self-adhesive	Integrated wire loop	
Affixes To		Any material (hanging in free air)	On Metal
Housing Material	Paper	PC/ABS	ABS
Color	White		
Weight		0.07 oz (2 g)	1.13 oz (32 g)
CHEMICAL AND MECHANICAL RESISTANCE			
Water	IP67, 68° F (20° C), 3.3 ft (1 m) × 35 min		
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)		
Axial / Radial Force		500 N, 10 sec	100 N, 10 sec
Pull Resistance	N/A	> 10 N	> 30 N
THERMAL			
Storage	On reel, Shelf life max. 1 year at 14° to 104°F (-10° to +40°C)	-40° to +158° F (-40° to +70° C)	
Operating	-4° to +158° F (-20 °C to +70 °C)	-40° to +158° F (-40° to +70° C)	
Shock / Fatigue		-40° to +158° F (-40° to +70° C), 100 x 5 min with 30 sec transition	
OTHER			
Standards	ISO/IEC 14443A, NFC Tag Type 2	UHF EPC Class 1 Gen 2, ISO 18000-6C, ATA Spec 2000 Chapter 9-5 (Version 2013), SAE AS5678 / DO-160	UHF EPC Class 1 Gen 2, ISO 18000-6C Tamper status reported via XPC-W1 word
Options		Encoding, laser engraving	
Box Size	1,000 pcs	800 pcs	150 pcs
Warranty	2 years		

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