

Sentinel - Active RFID EAS



WG Global

Zero False Alarm* 58 KHz Acoustomagnetic EAS

*our patented system algorithm avoid false alarms from when walking through the gate.

Sentinel

Electronic Article Surveillance by Active RFID

Sentinel is a groundbreaking new security concept for retail applications. Unlike traditional EAS-Systems, where the systems are installed at the exit as a "barrier for shoplifters, Sentinel monitors of the entire sales area.

Several "Field RAD" antennas transmit information to the Sentinel tags on the sales floor. As long as the tags receive these sentinel signals, everything is fine. If the signal is shielded or jammed (i.e. by a shoplifter), the tag recognizes this and alarms. An amplifier or a Sentinel "EAS RAD" can receive tag alarms and add an even louder audiovisual alarm or trigger a CCTV or pager system.

Sentinel 's intelligent signal processing in tag and central unit make it the first 6-alarm system in the market:



Sentinel - The SIX ALARM SECURITY SYSTEM

- 1) EAS-RAD alarms when unpaid goods leave the store
- 2) Tag alarms when unpaid goods leave the business
- 3) Tag alarms at tag manipulation / tampering (cutting, etc.)
- 4) Tag alarms when unauthorized detacher is used
- 5) Tag alarms when being shielded or signal gets jammed.
- 6) Tag alarms when the monitored zone is left.

WG Global GmbH

Sägewerkstraße 3
D- 83416 Surheim

Email: info@wgglobal.eu

D: Tel. +49 8654 7715-0 **Fax:** -29

A: Tel. +43 810 900 313-0 **Fax:** -29

www.wgglobal.de



Sentinel Field Rad Antenna overseeing the sales floor



Auto Active RFID Tag - Sentiel Lanyard

SENTINEL COMPONENTS

The main component of the Sentinel system are the Sentinel Readers, called RADs (Radiate And Detect). All RADs communicate wirelessly, making installation extremely simple. The RADs are placed throughout the store's ceiling to create a large secured perimeter zone to ensure free product movement within the store. There are three types of RADs, which each perform a vital function for the system to work:

FIELD RADE

These RADs radiate specific areas, emitting a signal from the ceiling in a 120 degree cone, which expands as it approaches the sales floor. A minimal amount of Field RADs can secure entire floors of products, or secure delicate or high-risk items within only a certain area of your store.



WG Sentinel FIELD RADE

This signal creates protection zones and searches for unauthorized tag presence. There is constant communication between tag and RAD. The system remains quiet as long as there is no disruption. Once signal disruption occurs, either by unauthorized detachment of the tag, tampering with the tag, or the tag leaving the area, the system will alarm.



EAS RADE

The EAS RAD is installed at the exit of the store. This particular RAD is the alarming RAD, notifying store personnel when a tag is leaving the area. It also triggers the tag itself to self-alarm when it passes by the EAS RAD detection zone, ensuring complete security.



WG Sentinel EAS RADE

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POS RADE

At the point-of-sale, these RADs function as a deactivator and detacher; arming and disarming the Sentinel tags, allowing for authorized removal of the tag without causing alarms. Tags are armed by this device and then ready to be applied to merchandise on the sales floor. When the merchandise is purchased, it disarms the tag and allows for removal.



WG Sentinel POS RADE

EAS RADE IND

The Alarm Indicator is an optional device in the family of Sentinel Products. When a Sentinel Tag transmits it's Alarm Signal, the RADE-IND can differentiate if the alarm is coming from tampering the tag or from a tag triggered by an EAS-Rade.

RADE-IND will support the tag with its own loud alarm, it will indicate the alarm Reason with blue or red LED's and it may switch additional security means such as CCTV or Pagers.



WG RADE-IND Alarm Indicator

SENTINEL RPS Redundant Power Supply

This power supply provides a solid power source for up to 30 Sentinel antennas. The power lines can be made in ring or star configuration. Because Sentinel tags are programmed to receive and process the signals coming from the Field Rade Antennas, it is required to have an permanent 24h power line. The power supply is designed redundant.



WG APS PSU-Redundant power supply

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SENTINEL TAGS

The Sentinel Tags are sophisticated devices which perform multiple functions. Each tag is engineered to "listen" to signals emitted from the RADEs. Constant communication between tag and RADE ensures the alarm remains silent. The tag is designed to self-alarm at any point of signal disruption, be it tampering, not being disarmed prior to removal from the merchandise, or removal from the protected zone. When tags enter into an alarm state, they will also notify the EAS RADE to audibly alarm. Since the tag is in constant communication, if it is removed accidentally from the protected zone, once it is brought back into the zone, alarming will cease since the signal is regained. Sentinel Tags come in lanyard form, but any size or shape tag can be made into a Sentinel Tag, depending on your store's needs.

Sentinel tags are available in different form factors:

Sentinel Lanyard tag 7 Inch / 20 cm

rubber coated steel lanyard, ideal for all kind of luggage, sports goods, electric tools.

Sentinel Lanyard tag with 48 Inch / 122 cm

rubber coated steel lanyard, ideal for coats and Jackets.

Sentinel Pebble tag

for all kinds of fashion garments.

Sentinel Ninja Tag.

The new security solution for merchandise stocked on the sales shelves in boxes. Ninja consists of a disposable, self adhesive base and a removable and reusable tag.



WG Sentinel Lanyard Tag



WG Sentinel Pebble Tag



WG Sentinel Ninja Tag



WG Sentinel Ninja Tag with self adhesive base

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