



Your Partner in Profit

# Product Catalog 2020



## Zero False Alarm\* 58 KHz Acoustomagnetic EAS

\*Our patented system algorithm avoids false alarms when walking through the system.

## EAS Wi-Fi Remote Tuning & Diagnostic



Our Acousto magnetic EAS systems are extremely robust and built to operate in the modern retail environment. The antennas and controllers are designed to be maintenance free

Reasons for service calls are, changes in the environment or synchronization issues. The most common change to the environment is a tag in the field or close to a system, which creates a permanent alarm. WG's new Remote Tuning & Diagnostic software functionality comes with all new Wi-Fi EAS Systems.

The Wi-Fi system connects to a protected cloud-based service. In today's environment retailers do not install LAN sockets at the antenna in the entrance. WG's WiFi systems use advanced built in Wi-Fi technology to connect to the EAS Net Cloud.

Retailers do not need to invest in additional costly infrastructure. The status of the connected systems can be seen and analyzed. In case of a malfunction, the system can be retuned or synchronized remotely.

The systems software can determine whether the continuous alarm comes from tags or labels in the field.

Travel costs are avoided and the response time for troubleshooting becomes shorter.



## Why Acousto magnetic technology?



AM EAS Systems are proven to have the highest detection rate in the industry. Even on products where RF and RFID technology fail because of the physical conditions, AM still performs best.

If labels are posted on aluminum foil or cans or when packaging is made of glossy packaging containing a thin layer of metal to achieve the great optical effect, the RF signal is shielded. Even in metal shopping carts or conductive materials such as Spirits and perfumes, AM detects better than all other EAS technologies.

It is reliable. Possibly the most important fact for users and customers is that WG Wi-Fi systems operate false-alarm free because our special system algorithm that eliminates false alarms from items being carried through the system. When a customer is in the gate and the system alarms.

Our new Wi-Fi systems have reduced power consumption, we offer jammer detection, wider exit widths, helps users to identify alarms from tags that are too close to the system and are compatible with RFID systems.

Smallest tags, reliable deactivation, and thanks to our 4 alarm "Extreme Security" the maximum security level against professional shoplifters.

All this provides for the sustainable reduction of your shortage and an ongoing staff motivation.

**All this matters.**

# Comparing the invisible Systems:

	Typical application	Detection and exit width description:	Installation and site survey	Remote Tuning	Antenna size	Controller
Sky Guard III	invisible system at small exits (-180cm) even with labels or luxurios wide entrances using powerful hard tags.	Good detection achieved in exit widths between 400-500 cm on WG Super Pencil, 300-350 on WG Pencil, 200 cm on WG Micro pencil and 180 cm using Sensormatic DR/APX labels or Super Tag. Weakest point in the center of the exit. Detection height can be configured by Turbo antenna position.	Loop to be mounted or integrated in / on portal. 4 turbo antennas needed. Sky Gurd looks best when antennas and loop are installed in a profile colo-red in the RAL-tone of the non magnetic portal. Parallel loop to be avoided.	no	Loop antenna (Standard or WG Global Loop cable for individual configuring) ++ 4 x Turbo	1xSKG controller, 1x24VAC PSU
Floor Guard Wi-Fi	Invisible system for small entrances up to 200 cm width.	Best detection height with WG Super Pencil (135-150cm), or Pencil / Shell tags (115-125cm).	Easy integration of the solid 150x40x2,8 cm antenna in concrete or Knauf Stretto (or equal) at new built stores.	yes Remote tuning via WiFi	solid 150x40x2,8 cm floor antenna	1x individual programmed Adapter Box (up to 6 m from the antenna) 1x WiFi Control box (Product code WG WFCB includes 1xSPS)
Floor Guard Hybrid Wi-Fi	Highest performing Invisible system for small to medium entrances up to 250 cm width, even with labels. Hybrid Loop needs to be installed / integrated on the portal.	Superior detection. With WG Super Pencil detection height of 2m and more achievable, around 150 cm with WG Pencil, 120 cm with APX La-bels.	Easy integration of the solid 150x40x2,8 cm antenna in concrete or Knauf Stretto (or equal) at new built stores. Loop needs to be installed / integrated on the non magnetic portal. Parallel loop to be		solid 150x40x2,8 cm floor antenna, 15m Hybrid loop cable (to be configured and terminated on site)	Controller can be installed up to 15 away from Adapter Box.
Floor Guard 2A 1.8 Wi-fi	Invisible system for medium entrances of 200-220 cm width.	Best detection height with WG Super Pencil (135-150cm), or Pencil / Shell tags (115-125cm).	Easy integration of them antenna cables in concrete or Knauf Stretto (or equal) at new built stores by a skilled engineer. Performance test before sealing the floor recommended. Typical installation requires 2-3 visits by in-staller.		180 x90 cm floor antenna cables	
Floor Guard 2A 3.0 Wi-fi	Invisible system for small entrances up to 300 -340 cm width.				300 x90 cm floor antenna cables	
Floor Guard 2A 3.6 Wi-fi	Invisible system for small entrances up to 360 - 400 cm width.				360 x90 cm floor antenna cables	





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## Floor Guard Hybrid Wi-Fi



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# Floor Guard Hybrid Wi-Fi



Invisible System is visibly better

Your store will impress your customer. And with the WG Wi-Fi Floor Guard Hybrid at your entrance nothing interferes with this impression.

Fully invisible with cutting edge technology. Just the way your store was planned and implemented by your architect.

The Wi-Fi Floor Guard antennas disappear completely in the floor an additional loop antenna integrates into a nonmagnetic door frame or wall.

Compared to other Floor EAS Antennas the invisible Wi-Fi Floor Guard Hybrid lifts the detection area and allows the use of smaller tags.





## Floor Guard Hybrid Wi-Fi applications



Wi-Fi Floor Guard Hybrid is specifically designed for exclusive Fashion, Outdoor, Sport and Luggage stores. Its best used with our small high-performance ferrite tag "Super Pencil" (2.3"), the (1.9") Pencil tag or the Shell tag (2.1"). But because of the improved pick-rate it the system works very well with small adhesive labels.



### Alarm zone:

Type of Tag	Detection Height
Shell, Mid Pencil	3.6 - 4.4 ft
Super Pencil	3.77 - 4.75 ft

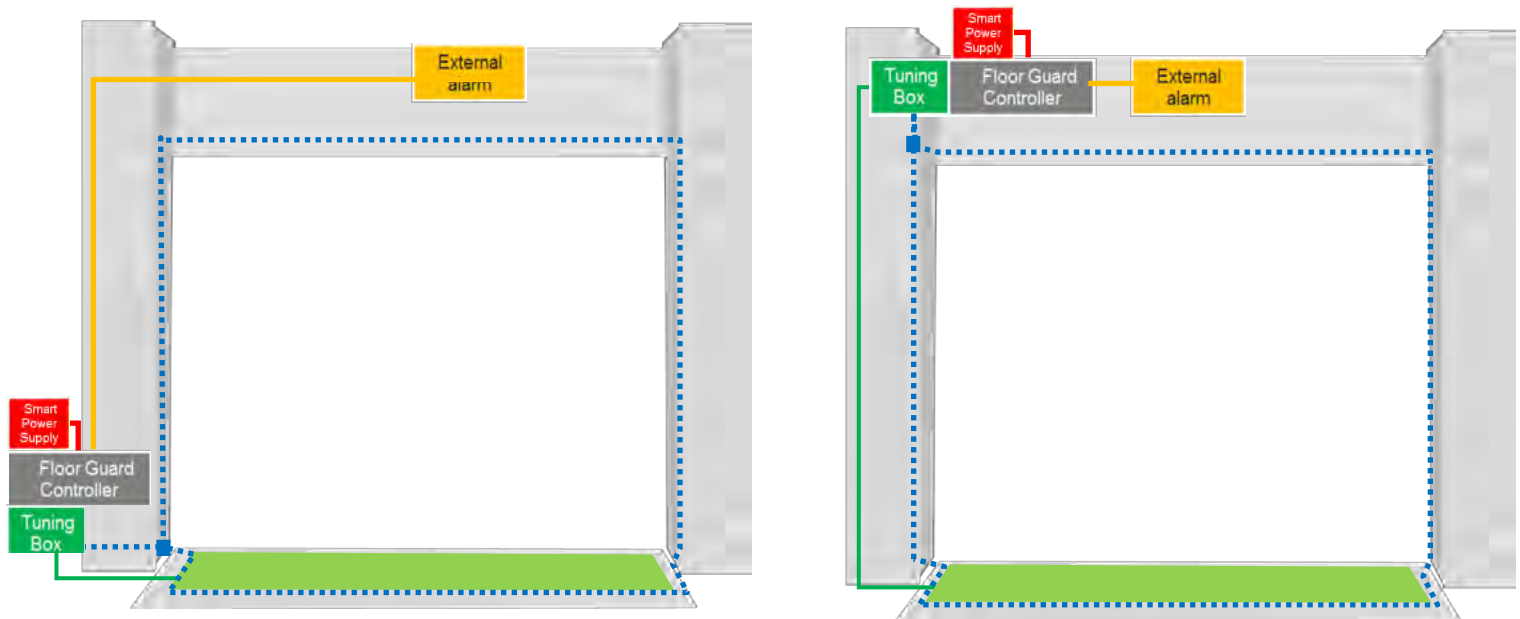
\* Since the influence of metal in the soil can not be determined reliably in advance, we recommend the use of powerful tags like WG Super Pencil WG Pencil or WG Shell tags. Under performing labels will reach lower detection levels. And lower detection height.

To avoid alarms by labels in the close proximity of the antennas, a safety zone with no tags ( about 40-45% of the exit width) should be kept on all sides. AM EAS systems are radio transmission systems on the approved working frequency of 58 KHz. Devices being unsuppressed or not corresponding to recent standards (EN 300330 / EN 301489-3) can cause interference and negatively affect system performance. Changes in the environment and surrounding may require a retuning of any EAS System.

The new Wi-Fi Floor Guard Controller can use the existing Wi-Fi access point or a GSM network provided by WG.

External alarm units can be flush mounted into the store ceiling.

## Floor Guard Hybrid Wi-Fi Installation Description:



The Wi-Fi **Floor Guard Antenna** is installed into a recess floor. Due to the 1inch cable diameter its much easier and more feasible than in previous floor antenna systems. The antenna is cast in thin set and can be covered by non metallic floor materials such as brick, wood, carpet, marble etc. If an entrance-mat is framed by metal this must not form a closed circuit to avoid the effect of a Faraday cage, with negative influences on the signal field. A single cut of 1mm at a hidden position will solve the problem. To any magnetic metal a proximity of about 3.1" - 3.9" is recommended. The floor antenna is connected through a max 20 ft long system cable to a tuning box.

The **Hybrid Loop Antenna** adds another transmitter/receiver field which is processed by the same controller. It is a special seven conductor cable of 8 mm diameter and can be run even inside non magnetic metal frames. Approximately 7 – 12 inches to magnetic metal such as copper board frame construction or regular steel supports shall be maintained. The two ends of the Hybrid loop are connected in a regular PVC connection box and a twisted pair cable of max. 2mm continues to the tuning box. A revision door, close to the connection box is needed for maintenance.

In the **Adapter box** the raw antenna signals are processed and made resistant against interferences. Therefore the shorter this cable is, the better it is. With the 20 ft cable from the floor antenna usually the ceiling can be reached and the box can be located next to the controller. On very wide openings, where the cable length is not sufficient to reach the ceiling, the tuning box may be positioned behind a Revision-door in the wall or in the furniture. The tuning box is connected to the system controller.

The **System controller** processes all transmitter and receiver signals. Usually it is located behind a revision door in the false ceiling or a cabinet. It offers audio-alarm and WiFi connection for remote service. If the alarm volume is too low because the controller is mounted covert, an optional digital remote alarm (audible + optical alarm) unit can be used. Cables between tuning box and controller can be up to 50ft long. The controller is powered by a 24 V low voltage WG Smart Power Supply.

**The ideal position for Controller, Tuning Box and Power supply is in a hatch left or right side of the door. Alternatively a soffit in the ceiling close to the exit can be used.**

The SPS has connection joints for dry contacts to trigger a CCTV-system in case of EAS-alarm or jammer-alarm. Also the alarm volume can be adjusted remotely from the SPS. The exclusive TX-switch is a great support for the store people if they search for labels in the security zone. SPS can be clicked on a standard DIN-rail (Din 46277-3) holder system.



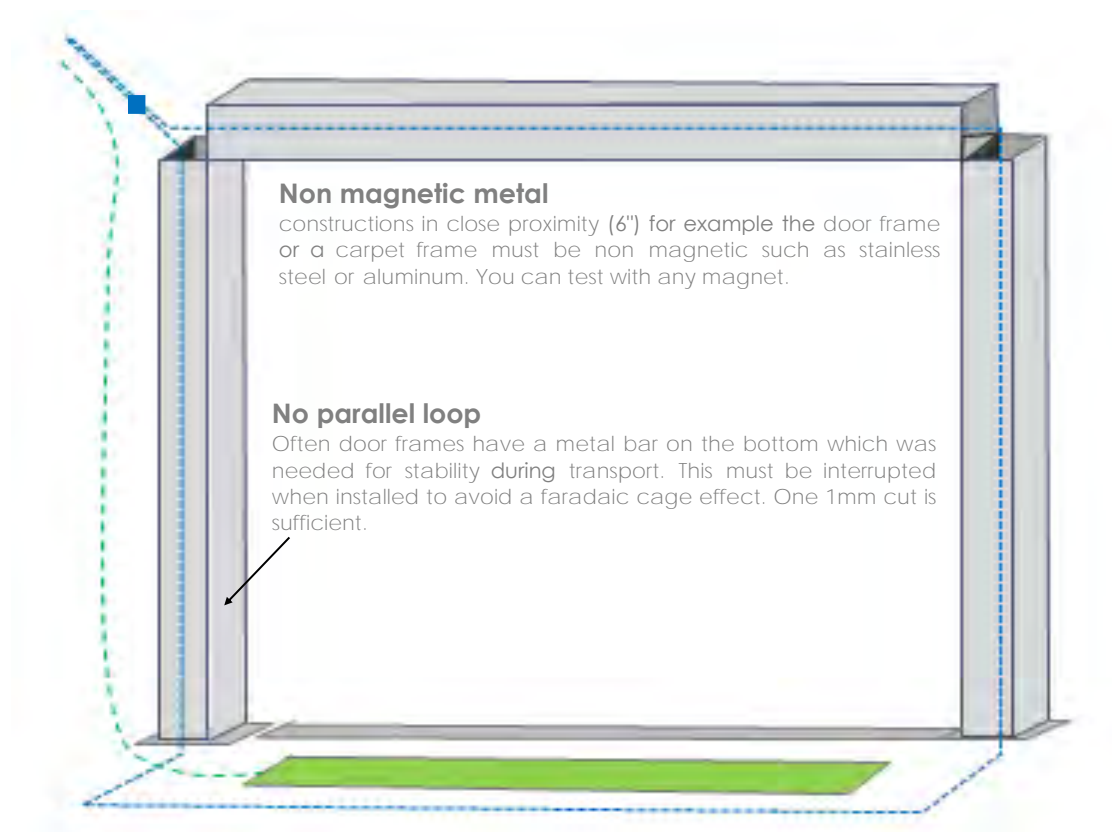
### Floor Guard Hybrid Wi-Fi Specifications for the door frame:

A special configured Hybrid antennae cable is run inside a non magnetic door frame or can be mounted on top of the door frame. Various aesthetic covers are available from WG or can be made by the store fitter.

Every non magnetic material is possible. i.e. Aluminum, stainless steel, bronze, and of course timber, plastic or fiberglass.

To test if the door frame is magnetic (iron or regular steel inside the portal construction), a strong detacher can be used, to sense the magnetic force.

**Important** the door frame does not make a parallel loop. Some doors are delivered with a supporting bar at the bottom, to avoid bending during the transport and mounting. This bar must be cut to avoid the parallel loop and the effect of a Faraday cage.



## Floor Guard Hybrid Wi-Fi Specifications:



System controller with SPS Smart Power supply on the mounting plate



Floor Guard Adapter box

### Options:



Optional external alarm units can be flush mounted into the store ceiling

Dimensions		
Metal mounting plate:	18 x 13 x 18 inches	1.1lbs
System Controller:	15 x 5.5 x 2.8 inches	5.3lbs
SPS power supply:	4.4 x 5.4 x 3.1 inches	7lbs
Adapter-Box:	9.5 x 7.5 x 3.5 inches	2.5lbs
Floor antenna dimensions:		
Floor antenna WF FG	60 x 16 x 1.1 inches	11lbs
Hybrid Loop cable	length according project, diameter 1/2"	

Max. Cable length:	
Antenna / tuning box:	20ft
Hybrid loop cable to Controller	max 6ft
Tuning box / controller	50ft
Controller to external SPS	250 ft with WG EA-Type 2 cable

### Power Preparations:

110 V (min. 3x2.5 mm<sup>2</sup>) Fuse 16 A min.. on dedicated circuit, at the same phase (L1 recommended) for all systems and deactivators at the cash desks. Current consumption max. 50 W per system, and 10/120 W (continuous / peak-pulse) per deactivator . Terminal connection or untwist able sockets. Plastic conduits (1")with inserted pull string is required

**External alarm connection** 2 conductor alarm cable or CAT 5/6 cable can be used.

### Product Codes:

WG WFFG	WG Floor	Guard	antenna*
WFCB	WG Floor	Guard	Controller
WFFG2A6	6ft Floor Guard antenna coil set*		
WG WFFG2A10	10ft Floor Guard antenna coil set*		
WG WFFG2A12	12ft Floor Guard antenna coil set*		

\*includes adapter box dedicated for this configuration.



# Floor Guard Wi-Fi



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## Floor Guard Wi-Fi

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The Wi-Fi Floor Guard antennas disappear completely in the floor an additional loop antenna integrates into a nonmagnetic door frame or wall.

Compared to other Floor EAS Antennas the invisible Wi-Fi Floor Guard Hybrid lifts the detection area and allows the use of smaller tags.





## Wi-Fi Floor Guard applications



Wi-Fi Floor Guard is specifically designed for the exclusive Fashion, Outdoor, Sport and the Luggage market. Its best used with our small high-performance ferrite tag Super Pencil (2.3"), the (19")

Pencil tag or the Shell tag (2.1"). Detection performance will be in one level with the best visible retail security systems.

Entrances are protected and completely invisible.



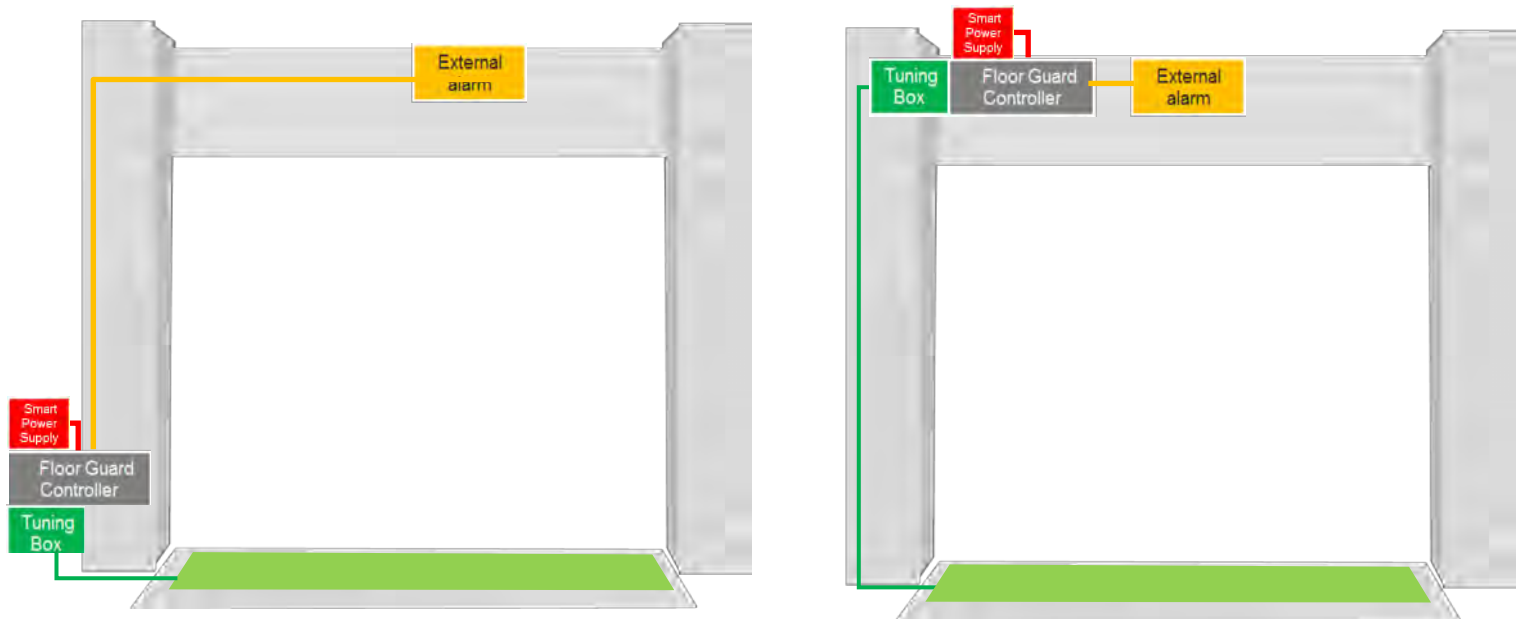
Alarm zone:	
Type of tag	Detection Height
Shell, Mid Pencil	3.7 ft - 4.2 ft
Super Pencil	3.7 ft - 4.75 ft

\* Since the influence of metal in the soil can not be determined reliably in advance, we recommend the use of powerful tags like WG Super Pencil, WG Pencil or WG Shell tags. Underperforming labels will reach lower detection levels. And lower detection height.

To avoid alarms by labels in the close proximity of the antennas, a safety zone with no tags ( about 40-45% of the exit width) should be kept on all sides. AM EAS systems are radio transmission systems on the approved working frequency of 58 KHz. Devices being unsuppressed or not corresponding to recent standards (EN 300330 / EN 301489-3) can cause interference and negatively affect system performance. Changes in the environment and surrounding may require a retuning of any EAS System.

Wi-Fi Floor Guard Antenna prior to pouring concrete

## Floor Guard Hybrid Wi-Fi Installation Description:



The Wi-Fi Floor Guard Antenna is installed into a recess floor. Due to the 1inch cable diameter its much easier and more feasible than in previous floor antenna systems. The antenna is cast in thin set and can be covered by non metallic floor materials such as brick, wood, carpet, marble etc.

If an entrance-mat is framed by metal this must not form a closed circuit to avoid the effect of a Faraday cage, with negative influences on the signal field. A single cut of 1mm at a hidden position will solve the problem. To any mag-netic metal a proximity of about 3 - 4 inches is recommended. The floor antenna is connected through a max. 20ft long system cable to a tuning box.

In the **Adapter box** the raw antenna signals are processed and made resistant against interferences. Therefore the shorter this cable is, the better it is. With the 20ft cable from the floor antenna usually the ceiling can be reached and the box can be located next to the controller. On very wide openings, where the cable length is not sufficient to reach the ceiling, the tuning box may be positioned behind a Revision-door in the wall or in the furniture. The tuning box is connected to the system controller.

The **System controller** processes all transmitter and receiver signals. Usually it is located behind a revision door in the false ceiling or a cabinet. It offers audio-alarm and WiFi connection for remote service. If the alarm volume is too low because the controller is mounted covert, an optional digital remote alarm (audible + optical alarm) unit can be used. Cables between tuning box and controller can be up to 50ft long. The controller is operated by 24 V low volt-age coming from a WG Smart Power Supply.

**The ideal position for the Controller, Tuning Box and Power supply is to left or right side of the door. Alternatively a soffit in the ceiling close to the exit can be used.**

The SPS has connection joints for dry contacts to trigger a CCTV-system in case of EAS-alarm or jammer-alarm. Also the alarm volume can be adjusted remotely from the SPS. The exclusive TX-switch is a great support for the store people if they search for labels in the security zone. SPS can be clicked on a standard DIN-rail (Din 46277-3) holder system.

## Floor Guard Wi-Fi Specifications:



System controller with SPS Smart Power supply on the mounting plate



Floor Guard  
Adapter Box

### Options:



Optional external alarm units can be flush mounted into the store ceiling

### Dimensions

Metal Mounting pPate:	18 x 13 x 3.3 inches	1.1 lbs
System Controller:	15 x 5.5 x 2.8 inches	5.3 lbs
SPS Power Supply:	4.4 x 5.5 x 3.1 inches	7 lbs
Adapter Box:	9.5 x 7.5 x 3.3 inches	2.5 lbs

### Floor antenna dimensions:

Floor Antenna WF FG	60 x 16 x 1.1 inches	11 lbs
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### Max. Cable length:

Antenna / Tuning box:	20 ft
Hybrid Loop Cable to Controller	max 6ft
Tuning box / Controller	50 ft
Controller to External SPS	250 ft with WG EA-Type 2 cable

### Power Preparations:

110 V (min. 3x2.5 mm<sup>2</sup>) Fuse 16 A min.. on dedicated circuit, at the same phase (L1 recommended) for all systems and deactivators at the cash desks. Current consumption max. 50 W per system, and 10/120 W (continuous / peak-pulse) per deactivator . Terminal connection or untwist able sockets. Plastic conduits (1 inch) with an inserted pull string is required.

**External alarm connection-** 2 conductor alarm cable or CAT 5/6 cable can be used.

### Product Codes:

WG WFFG	Floor Guard antenna*
WG WFCB	Floor Guard Controller
WG WFFG2A6	6ft Floor Guard antenna coil set*
WG WFFG2A10	10ft Floor Guard antenna coil set*
WG WFFG2A12	12ft Floor Guard antenna coil set*

\*includes adapter box dedicated for this configuration.



## Floor Guard 2A Wi-Fi



Zero False Alarm\* 58 KHz Acoustomagnetic EAS

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## Floor Guard Wi-Fi

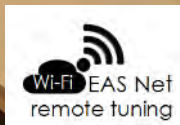
Invisible System is visibly better

Your store will impress your customer. And with the WG Wi-Fi Floor 2A Hybrid at your entrance nothing interferes with this impression.

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The Wi-Fi Floor Guard antennas disappear completely in the floor an additional loop antenna integrates into a nonmagnetic door frame or wall.

Compared to other Floor EAS Antennas the invisible Wi-Fi Floor Guard Hybrid lifts the detection area and allows the use of smaller tags.



## Wi-Fi Floor Guard Applications



Wi-Fi Floor Guard is specifically designed for the exclusive Fashion, Outdoor, Sport and the Luggage market. It's best used with our small highperformance ferrite tag "Super Pencil" (2.3"), the (1.9") Pencil tag or the Shell-tag (2.1"). Detection performance will be in one level with the best visible retail security systems.

Entrances are protected and completely invisible.



### Alarm Zone:

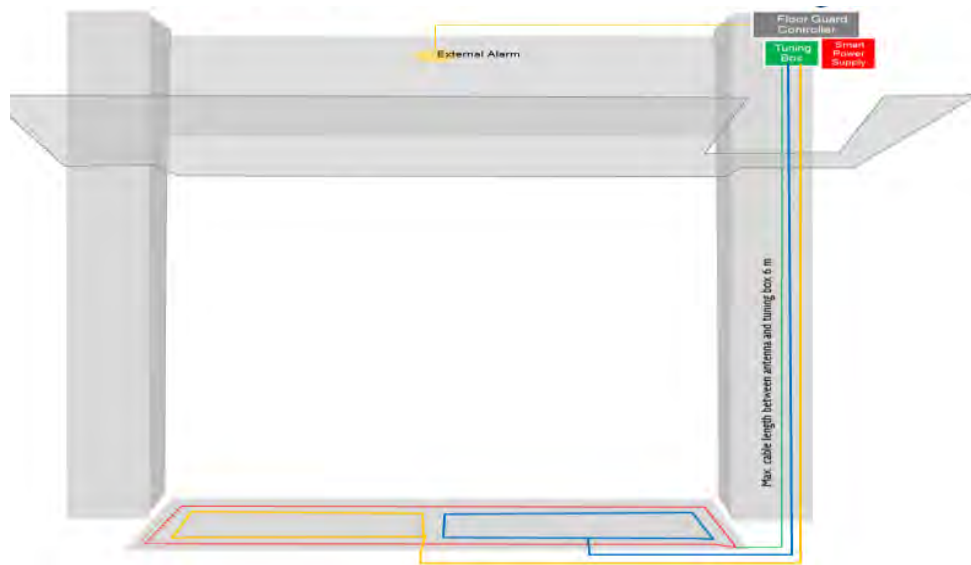
Type of tag	Detection Height
Shell, Mid Pencil	3.6 ft - 4.4 ft
Super Pencil	3.77 ft - 4.75 ft

\* Since the influence of metal in the soil can not be determined reliably in advance, we recommend the use of powerful tags like WG Super Pencil, WG Pencil or WG Shell tags. Under performing labels will reach lower detection levels and lower detection height.

To avoid alarms by labels in the close proximity of the antennas, a safety zone with no tags ( about 40-45% of the exit width) should be kept on all sides.  
AM EAS systems are radio transmission systems on the approved working frequency of 58 KHz. Devices being unsuppressed or not corresponding to recent standards (EN 300330 / EN 301489-3) can cause interference and negatively affect system performance. Changes in the environment and surrounding may require a retuning of any EAS System.

Wi-Fi Floor Guard 2A laid on the floor for testing. This is done prior to the antenna channel being cut into the floor.

## Floor Guard 2A Wi-Fi Installation Description:



The WiFi **Floor Guard 2A Antenna** is a configured antenna cable set, available in three sizes:

<b>WG WFFG2A6</b>	<b>Wi-Fi Floor Guard "2A"</b>	<b>6ft antenna floor loops</b>
<b>WG WFFG2A10</b>	<b>Wi-Fi Floor Guard "2A"</b>	<b>10ft antenna floor loops</b>
<b>WG WFFG2A12</b>	<b>Wi-Fi Floor Guard "2A"</b>	<b>12ft antenna floor loops</b>

Consisting of three loop cables and a dedicated adapter box to connect to a WG Wi-Fi Control Box (WFCB). Other than all other floor antennas that are a solid plate of 2" the 2A antennas do not need a massive hole in the floor. They can either be cut into concrete or laid inside the tile glue or integrated inside the floor construction below wood-en floors. The antenna coils can be covered by non-metallic floor materials such as brick, wood, carpet, marble etc..

If an entrance mat is framed by metal this must not form a closed circuit to avoid the effect of a Faraday cage, with negative influences on the signal field. A single cut of 1mm at a hidden position will solve the problem. To any magnetic metal a proximity of about 3" is recommended. The floor antenna is connected through a max. 20 ft long system cable to a tuning box.

In the **Adapter box** the raw antenna signals are processed and made resistant against interferences. Therefore the shorter this cable is, the better it is. With the 20 ft cable from the antenna usually the ceiling can be reached and the box is located next to the controller. On very wide openings, where the cable length is not sufficient to reach the ceiling, the tuning box may be positioned behind a Revision door in the wall or in the furniture. The tuning box is connected to the system controller.

The **System controller** processes all transmitter and receiver signals. Usually it is located behind a revision door in the false ceiling or a cabinet. It offers audio alarm and WiFi Connection for remote service. If the alarm volume is too low because the controller is mounted covert, an optional digital remote alarm (audible + optical alarm) unit can be used. Cables between tuning box and controller can be up to 50 ft long. The controller is operated by 24 V low voltage coming from a WG Smart Power Supply.

The SPS has connection joints for dry contacts to trigger a CCTV-system in case of EAS alarm or jammer alarm. Also the alarm volume can be adjusted remotely from the SPS. The exclusive TX-switch is a great support for the store people if they search for labels in the security zone. SPS can be clicked on a standard DIN-rail (Din 46277-3) holder system.

## Wi-Fi Floor Guard 2A - specifications

Wi-Fi Floor Guard 2A is a special variation of WG's Floor Guard technology, using pre configured transmitter and receiver antenna cable coils that can be cast with liquid concrete, cut into solid concrete or laid inside tile glue. It is available in three dimensions, 6ft, 10ft and 12ft. The width is always 3ft the diameter of the cables below 0.4 inch

Each antenna consists of three coils. A large one, with two small ones inside. Each coil is connected to the dedicated Adapter Box (20ft cable) which first processes the raw antenna signals. The Adapter Box is connected to the Wi-Fi Floor Guard Controller (WFCB) controller with two max 50ft long system cables.





## Floor Guard Wi-Fi Specifications:



System controller with SPS-Smart Power supply on the mounting plate



Floor Guard Adapter box

### Options:



Optional external alarm units can be flush mounted into the store ceiling.

### Dimensions

Metal Mounting Plate:	18 x 13 x 3.3 inches	1.1lbs
System Controller:	15 x 5.5 x 2.5 inches	5.3 lbs
SPS Power Supply:	4.4 x 5.4 x 3.1 inches	7 lbs
Adapter Box:	9.5 x 7.5x 3.5 inches	2.5 lbs

### Floor antenna dimensions:

	60x 16x 1.1 inches	11lbs
2A Floor Antenna Coils 6ft	6 x 3 x 10 inches	1.1lbs
2A Floor Antenna Coils 10ft	12 x 3.5 x 10 inches	4.75 lbs
2A Floor Antenna Coils 12ft	15 x 3.5 x 4 inches	5.3 lbs

### Max. Cable length:

Antenna / Tuning Box:	20ft
Hybrid Loop Cable to Controller	max. 6ft
Tuning Box / Controller	50 ft
Controller to External SPS	250 ft with WG EA-Type 2 cable

### Power Preparations:

110 V (min. 3x2.5 mm <sup>2</sup>) Fuse 16 A min.. on dedicated circuit, at the same phase (L1 recommended) for all systems and deactivators at the cash desks. Current consumption max. 50 W per system, and 10/120 W (continuous / peak-pulse) per deactivator. Terminal connection or untwist able sockets. Plastic conduits (30 or 32mm)with inserted pull wire are recommended.

**External alarm connection** 2 conductor alarm cable or CAT 5/6 cable can be used.

### Product Codes:

WG	WFFG	Floor	Guard	Antenna*
WG	WFCB	Floor	Guard	Controller
WG WFFG2A6		6ft	Floor Guard antenna coil set*	
WG WFFG2A10		10ft	Floor Guard antenna coil set*	
WG WFFG2A12		12ft	Floor Guard antenna coil set*	

\*includes adapter box dedicated for this configuration.

## Sky Guard III



**Zero False Alarm\* 58 KHz Acoustomagnetic EAS**

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## Sky Guard III

Invisible Is visibly better!

The Invisible Loop Detection System is the ultimate for your stores interior design. It is the choice of many high-end apparel merchants, as the discreteness of the detection system doesn't interfere with the visual appearance of the doorway.

The compact detection system is actually built into the door frame, eliminating the need for exposed hardware.

Sky Guard III with its active turbo antennas is the best solution if a customer wants to have high class security but a fully invisible or very discrete tagging system. This is the ideal detection solution for a wide doorway.

The flexible transmission loop and the noise cancellation of the Turbo antennas allows for a system with superior detection. Great aesthetic and nothing interferes with stunning store architecture.





### Sky Guard III Installations:

Sky Guard III may be installed on an existing door frame or integrated into new portals.



### Sky Guard III with visible turbo antennas

The transmitter loop (cable) is installed into a conduit (empty tube, slot, groove). The receiver antennas can be mounted hidden or visibly but must remain accessible for service matters.

### Sky Guard frame:

The system comes with a Section frame (60 x 60 mm or 50 x 50 mm) in the desired color. This frame is built around the exit. The loop cable in the ground is done in an plastic conduit. The profiles are supplied painted in 3000 mm length, in your RAL color, cut to the correct length on site and attached to the existing portal by gluing or screwing. The profiles of the frame are de-signed to cover the entire antenna technology and cabling. The system controller may be installed above the door or disappear behind a Revi-flap in the ceiling.



### Sky Guard III for automatic doors:

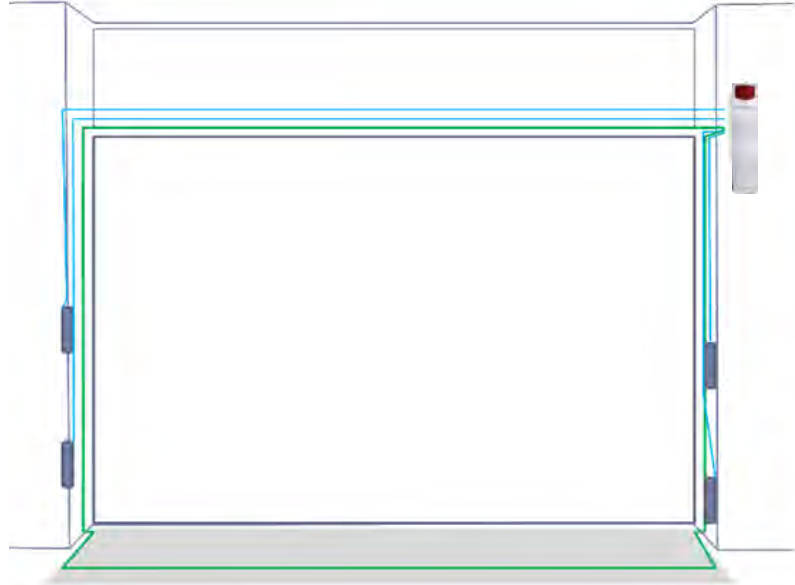
Specially configured for automatic sliding doors, the antennas are integrated into the portal. The door portal will be built or modified by your supplier according to our guidelines. The system is thus completely invisible and protected. The color is adjusted to those of your portal. Special advantage: No antennas hinder the customer flow. More selling space because of no space re-quired for EAS antennas. Sky Guard III can be used for automatic doors in situations where space and protection against damage from shopping carts is required.

### Sky Guard III in individual profile:

Your architect will be equipped with the necessary specs and supported with needed knowledge and information's to be able to build your individual Sky Guard III profile i.e. from Aluminum or stainless steel with stylish glass or plastic covers for the receiving antennas.



### Sky Guard III - Installation description:



### Transmission Lines and Antennas Turbo:

Around the door a transmit antenna cable (shown green) is mounted. In the floor this cable is run in a 1.2" plastic conduit. To achieve a little earlier detection the conduit is run about 16-20 inches inside the store.

Two turbo-receiver antennas are mounted on the right and left of the door at a height of about 20 - 30 inches and 40-50 inches (antenna bottom edge). The door frame must not build a closed metal ring. If so, the frame must be interrupted in only one section for 1 mm to avoid the effect of a Faraday cage. The transmitter loop needs to stay in a proximity of 3.2 - 4 inches from magnetic metal to achieve best performance. Simple and elegant, the Sky-Guard cables and antennas can be installed in an individually custom-painted (RAL color Sky Guard Frame).

For even more individual solutions the receiving antennas (Turbo antennas) can be covered in wood or plastic, but must remain accessible for service adjustments. The transmission cable may also be conducted in a non-magnetic metal (aluminum or stainless steel). Then corresponding "windows" for the receiver antennas must be provided.

The alarm is audible and visual directly to the central electronics or an optional remote alarm unit. The central unit has a built in power supply, the Turbo antennas are powered by a small power supply.

### Preparations:

110 V connection, with a dedicated line, at the position of the central unit

PG30 conduit in the floor or in accordance with the project drawings and specifications.

## Sky Guard III - applications:



Sky Guard III is particularly used where high-quality merchandise presentation and shopping atmosphere are important on one hand and optimizing the effective retail space management and avoidance of barriers on the other hand considerably.

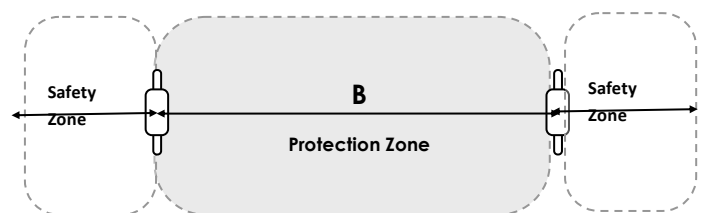
### Fashion:

Leading companies in the fashion industry, particularly in the luxury segment rely on the invisible safety of Sky Guard III. Where was purposefully invested in sales atmosphere and upscale product presentation, an article surveillance system must be able to fade into the background unobtrusively. But not at the expense of safety.

### Food:

The integration in automatic doors was particularly important for the Foodmarket. More than 3000 Sky Guard III systems have since been installed in the food retail sector and provide high security without interfering antennas.

## Sky Guard III System field-graphic:



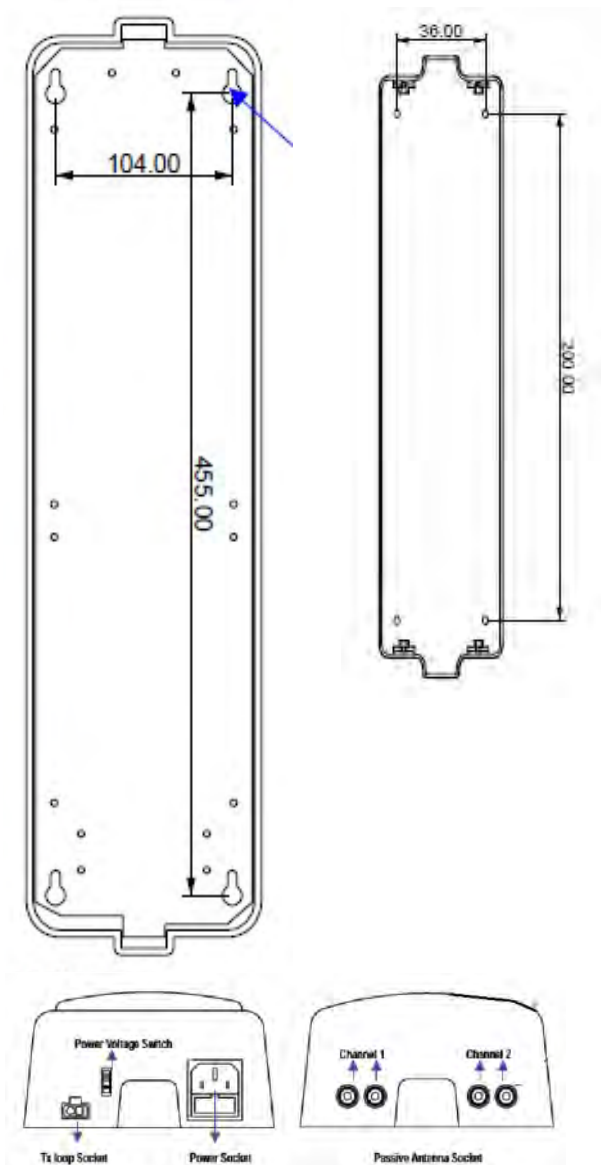
Alarm zone in feet	
Type of tag	B
Label Type MUS-DR	6ft
Hardtag Super Tag	6ft
Micro Shell, Micro Pencil, Lanyard Tag	8.2ft
Shell, Mid Pencil	11.5ft
Super Pencil	16.5ft

### Remark:

For physically reasons a reduced detection performance can happen in the middle between transceiver antennas. We recommend the use of powerful WG Tags built to work perfect with this system. Under performing labels will reach lower detection levels. And lower detection height.

To avoid alarms by labels in the close proximity of the antennas, a safety zone with no tags ( about 40-45% of the exit width) should be kept on all sides. AM EAS systems are radio transmission systems on the approved working frequency of 58 KHz. Devices being unsuppressed or not corresponding to recent stand-ards (EN 300330 / EN 301489-3) can cause interference and negatively affect system performance. Changes in the environment and surrounding may require a return trip.

## Sky Guard III - Specifications:



## Power supply and environment:

System power supply (min.  $3 \times 2.5 \text{ mm}^2$ ) on dedicated circuit, at the same phase (L1 recommended) with the accessories.

Fuse minimum 16 A. Current consumption max. 50 W per system, and 10/120 W (continuous / peak-pulse) per deactivator. We recommend to have a switchable power line to be able to disable and reboot the system in case of a malfunction.

Power sockets shall be un twistable to avoid phasing issues. Regular sockets for accessories. All power connections should not be more than a meter away from each device. Plastic conduits (recommended. (1") with inserted pull string, btw. antenna and power supply as indicated in the project outline. Knowing the position of floor heatings or water pipes in areas of installation are important factors to ensure a smooth installation.

System Controller and Turbo antennas must be accessible for service activities (inspection openings, doors, hatches, etc.).

## Technical data and dimensions:

System Controller: 535x138x193 mm

Turbo antennas: 254x58x41 mm

Transmission cable: 8mm diameter

Distance to magnetic metal mind. 8-10 cm. Preferably no electrical devices in the alarm and security field.

Maximum cable length antenna - Controller 3ft

Working frequency range: 58 kHz

Power supply: 110 V / AC - 24 V / AC

Power consumption: 80 W

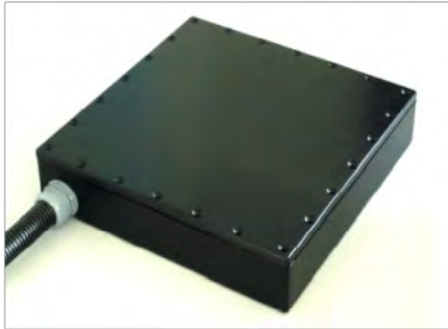
Ambient temperature: 0 ° - 30 ° C

## Product Codes:

WG-SKG58-3

Sky Guard III System

### Sky Guard III - Optional Floor Tank



For very large exits, it makes sense to sink two of Sky Guard's Turbo antennas into the ground. This moves the receiver antennas closer to the expected position of a tag or label when a shoplifter walks through the exit, towards raising the receiver closer to the labels.

The tanks are installed in the central region of the exit. Sealed, waterproof and hard wearing they can be set in the concrete. Since the ferrite receiving antennas may need to be reconfigured in a later service an accessibility of the tank must be planned.

#### Technical data and dimensions:

Floor box: 290x290x60 mm

Weight: 3.1 Kg

#### Product Code:

WG BAT      Sky Guard III Floor Tank (Set for 2 Antennas)





Your Partner in Profit

## Premier Guard Wi-Fi



## Zero False Alarm\* 58 KHz Acoustomagnetic EAS

\*Our patented system algorithm avoids false alarms when walking through the system.

## Premier Guard Wi-Fi

Aesthetic, clear and modern

The slender, false alarm free in high transparent acrylic article surveillance.

Wi-Fi Premier Guard is using the latest technology despite its small dimensions (only 15 inches wide)

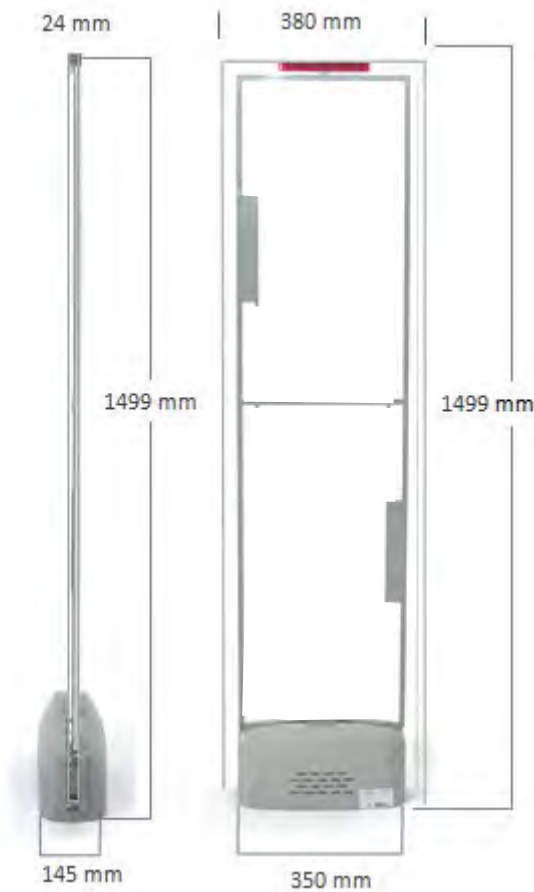
it is enormously powerful: Exit widths up to 10 feet with the WG Super Pencil hard tag.

In order to fit with its modern minimalist design with the interior of the store Premier Guard is available in stylish silver gray, elegant black or even in custom colors.

The Premier Guard comes with a smooth plastic base. As an option the base cover is available in noble stainless steel.

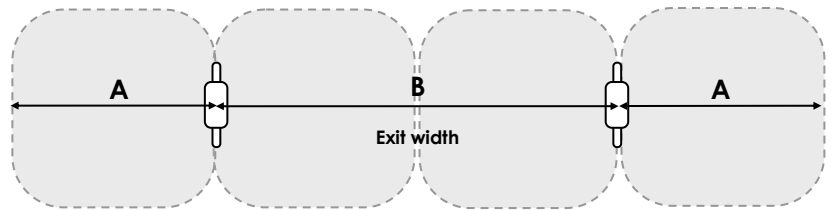


## Premier Guard Wi-Fi Specifications:



### Specifications:

Working frequency range: 58 kHz  
 Power supply: 110V / AC - 24 V / AC  
 Power consumption: 35 W  
 Ambient temperature: 0 ° - 30 ° C  
 Weight: 32 kg



Alarmzone in feet			
Tag Type	A	B	A
LabelsType MUS-DR	3ft	6ft	3ft
Hardtag Super Tag	3ft	6ft	3ft
Micro Shell, Micro Pencil, Lanyard Tag	3ft	6ft	3ft
Shell, Mid Pencil	4.5ft	9ft	4.5ft
Super Pencil	5ft	10ft	5ft

### Remark:

For physically reasons a reduced detection performance can happen in the middle between transceiver antennas. We recommend the use of powerful WG Tags built to work perfect with this system. Under performing labels will reach lower detection levels. And lower detection height.

To avoid alarms by labels in the close proximity of the antennas, a safety zone with no tags ( about 40-45% of the exit width) should be kept on all sides. AM EAS systems are radio transmission systems on the approved working frequency of 58 KHz. Devices being unsuppressed or not corresponding to recent standards (EN 300330 / EN 301489-3) can cause interference and negatively affect system performance. Changes in the environment and surrounding may require a retuning of any EAS System.

## Product Codes:

### Components

WG WFGP	Premier Guard Wi-Fi antenna color inlay and walk in Silver Grey
WG-WFGP-B	Premier Guard Wi-Fi antenna color inlay and walk in Black
WG WFGP-W WG SPS	Premier Guard Wi-Fi antenna color inlay and walk in White
SS-PG2TR-BC-ST-ST	Smart Antenna Power Supply PSU
	Stainless Steel foot cover f. 1 antenna

### Configured Sets:

K WFGP-1	Antenna, Power supply and cable)
K WFGP-2	1 antenna system (For Black or White, please add color Code B or W)
K WFGP-3	2 antenna system
K WFGP-4	3 antenna system
	4 antenna system



Your Partner in Profit

## Premier Pro Guard Wi-Fi



## Zero False Alarm\* 58 KHz Acoustomagnetic EAS

\*Our patented system algorithm avoids false alarms when walking through the system.



## Premier Pro Guard WiFi

Aesthetic, clean and modern

The slender, false alarm free in high transparent acrylic.

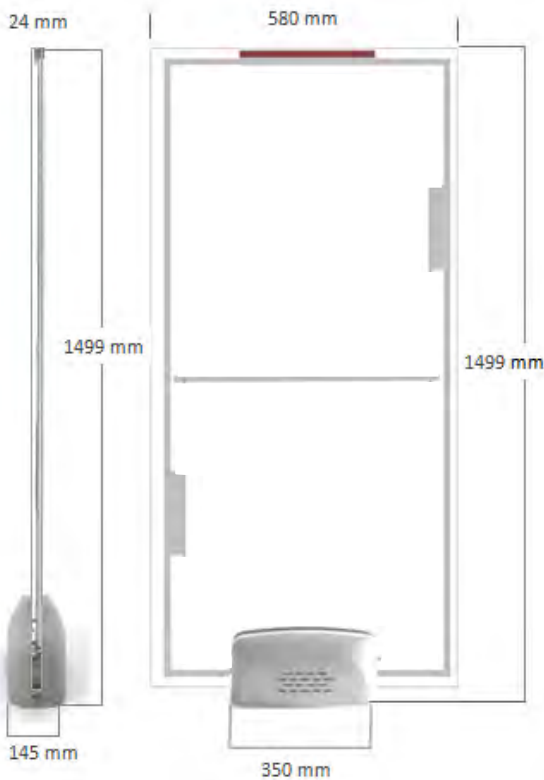
Wi-Fi Premier Guard is using the latest technology despite its small dimensions (only 16 inches wide) it is enormously powerful: passage widths up to 12 feet with the WG Super Pencil hard tag.

In order to fit with its modern minimalist design with the interior of the store Premier Guard is available in stylish silver gray, elegant black or even in custom colors.

The Premier Guard comes with a smooth plastic base. As an option the base cover is available in noble stainless steel.

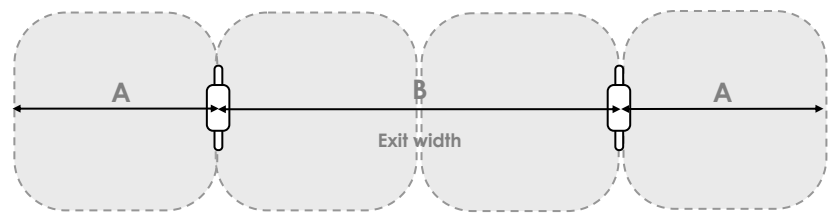


## Premier Guard Wi-Fi Specifications:



### Specifications:

Working frequency range: 58 kHz  
Power supply: 110 V / AC - 24 V /  
AC Power consumption: 39 W  
Ambient temperature: 0 ° - 30 ° C  
Weight: 37 kg



Alarmzone in feet			
Tag Type	A	B	A
Label Type MUS-DR	120	240	120
Hardtag Super Tag	120	240	120
Micro Shell, Micro Pencil, Lanyard Tag	120	240	120
Shell, Mid Pencil	160	320	160
Super Pencil	190	380	190

### Remark:

For physical reasons a reduced detection performance can happen in the middle between transceiver antennas.

We recommend the use of powerful WG Tags built to work perfect with this system. Underperforming labels will reach lower detection levels. And lower detection height.

To avoid alarms by labels in the close proximity of the antennas, a safety zone with no tags ( about 40-45% of the exit width) should be kept on all sides.

AM EAS systems are radio transmission systems on the approved working frequency of 58 KHz. Devices being unsuppressed or not corresponding to recent standards (EN 300330 / EN 301489-3) can cause interference and negatively affect system performance. Changes in the environment and surrounding may require a retuning of any EAS System.

## Product Codes:

### Components

WG WFPP	Premier Pro Guard WiFi antenna color inlay Silver Grey Premier Pro Guard WiFi
WG-WFPP- B	antenna color inlay Black
WG WFPP-W	Premier Pro Guard WiFi antenna color inlay White
WG SPS	Smart Antenna Power Supply PSU
SS-PG2TR-BC-ST-ST	Stainless Steel foot cover f. 1 antenna

### Configured Sets: Antenna, Power supply and cable)

- K WFPG-1 1 antenna system (For Black or White, please add color Code B or W)
- K WFPG-2 2 antenna system
- K WFPG-3 3 antenna system
- K WFPG-4 4 antenna system

## Stainless steel base cover for Premier Guard / Guard Pro Premier



### EAS Systems Premier and Premier Pro Guard Guard.

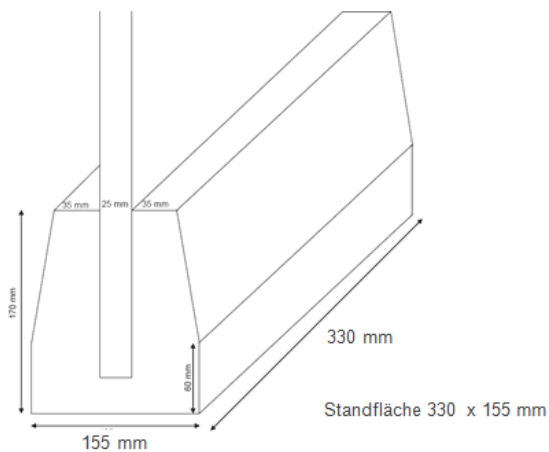
Optionally base cover crafted in polished stainless steel. Extremely robust and high quality. For both antenna sizes.



Optional Steel Base



Standard Base in Silver or Black



### Product Codes:

SS-PG2TR-B-C-ST-ST

Steel Base f.1 Antenna



## Premier Guard / Premier Pro Guard Wi-Fi



Wi-Fi Premier Guard antennas are used in every retail segment. The modern clean design and highly transparent acrylic provide a premium look. The optional stainless steel base makes it even more noble and additionally protects the boards inside.

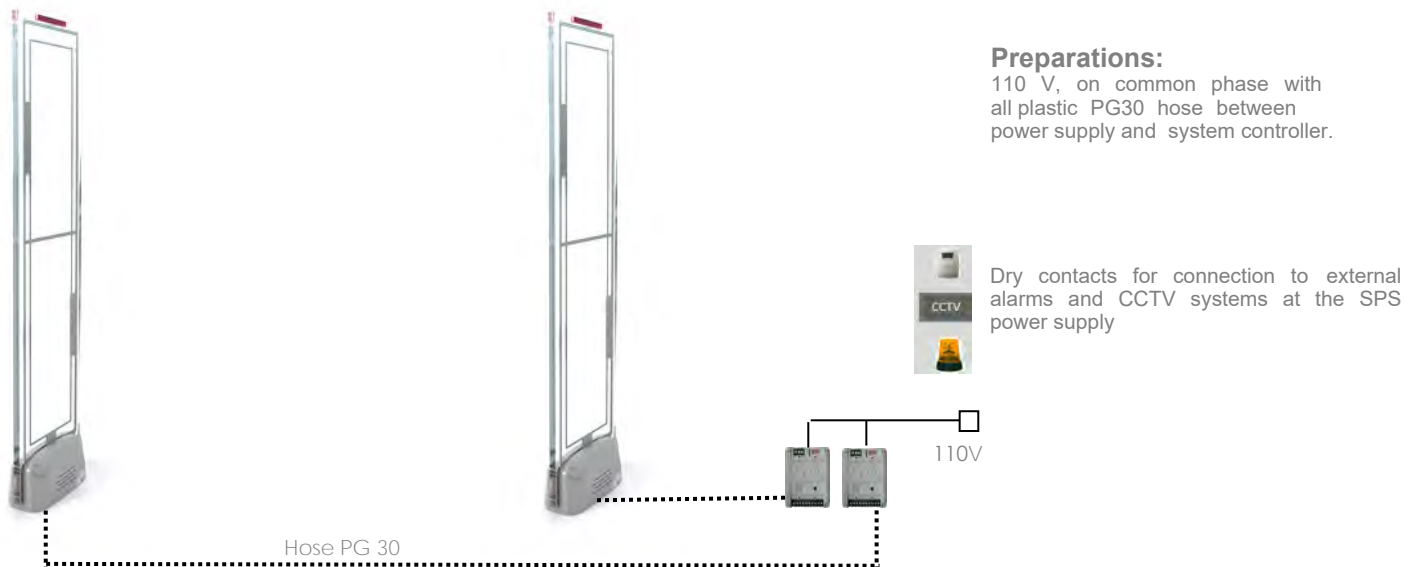
The standard color is silver, gray or black. Pure white or special colors can be produced.





## Installation description

### WG Wi-Fi Premier Guard and Premier Pro Guard:



The antennas are mounted by means of drilled and cemented into the ground stud. Underfloor heating or water pipes in areas of installation are important to announce. For floor heating optional special steel floor adhesive plates can be supplied, on which the antennas can be screwed, without having to perform drill-ing. The alarm is audible and visual directly on the antenna or at an optional remote alarm unit. Each antenna is fed by 24 V voltage through a system cable from the SPS Smart Power Supply. Cables are usually run through PG-30 plastic protection pipes in the ground or cable tunnels. Since the antennas are operated with 24 V low voltage only, the cables may even be placed directly into a grid in the floor and covered by silicone. Connection to the WG EAS remote tuning service is easily made by WiFi. The system controller is ready prepared.

The Smart Power Supply (SPS) is not only a power supply, it offers some very useful troubleshooting functions and therefore should be accessible for staff i.e. in the counter, the managers room or possibly incorporated in an IT or CCTV-19" Rack. It is connected via the enclosed 8 m long six-pin cable or for distances up to 60 m a through a cable with larger diameter (i.e. WG EAS System cable Type 2 with i.e. 7x1,5 mm). SPS has connection joints for dry contacts to trigger a CCTV-system in case of EAS alarm or jammer alarm. Also the alarm volume can be adjusted remotely from the SPS. The exclusive TX-switch is a great support for the store people if they search for labels in the security zone. SPS can be clicked on a standard DIN-rail (Din 46277-3) holder system.

#### Preparations:

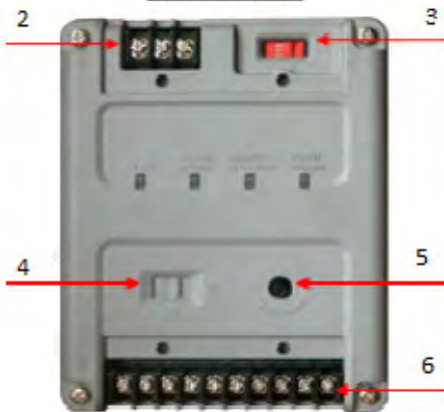
110V (min. 3x2.5 mm<sup>2</sup>) on dedicated circuit, at the same phase (L1 recommended) with the accessories. Fuse minimum 16 A. Current consumption max. 50 W per system, and 10/120 W (continuous / peak-pulse) per deactivator. Power sockets shall be un twistable to avoid phasing issues. PG 30 Plastic conduits (recommended. 30 or 32mm)with inserted pull wire, btw. antenna and power supply as indicated in the project outline.

## Smart Power Supply (SPS) Specifications.

SPS Front View



SPS Top View



SPS Rear View



### The universal power supply for the new WG Retail security systems:

Each system master or extender antenna requires a SPS. We recommend to have the SPS accessible for the store staff to disable and reboot (1) the system in case of a malfunction.

The 110 V (16 A slow blow fuse) connection is made via terminal box (2) by a regular min. 3x2.5 mm cable. Dedicated circuit (separate fuse), and common phase (L1) with all acoustomagnetic accessories is recommended. Power consumption max 50 W per system, per deactivator 10/120 W (continuous or pulse).

If a system gives spontaneous alarms the TX switch (4) helps to verify if maybe is a system tuning or synchronization issue or a user error (tags too close) is the reason.

The alarm volume (5) can be varied. Dry contacts for connection to external alarm consoles or CCTV-Systems systems are applied to the output terminal block (6).

Plastic conduits with pull wire (PG 30 recommended.) between SPS and antenna shall be prepared as specified in the respective project outline and drawings.

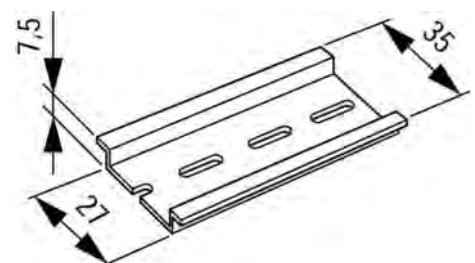
### Dimensions:

SPS-Power supply: 110 x 138 x 80 mm 1,8 kg

### Product Code:

WG SPS 24

Smart Power Supply



SPS can be clicked into a standard DIN 46277-3 rail holder system.

We recommend to install SPS in a dedicated box, locked but easy accessible for service needs.

# Ad Guard Wi-Fi



Zero False Alarm\* 58 KHz Acoustomagnetic EAS

\*our patented system algorithm avoids false alarms when walking through the system.

## Ad Guard Wi-Fi

### Two functions One antenna

Effective theft protection and additional advertising space

Wi-Fi Ad Guard is a powerful retail security and advertising column at the same time. The "Ad" stands for advertising. If only a small, slender antenna can be accepted our Ad Guard with only 12-inch width is perfect.

Using the latest signal technology, the slim antenna can protect, free passages up to 7.8 feet between two antennas

The system software can be optimized to your selection of resonator, ferrite based hard tags or labels.





## Ad Guard Wi-Fi Specifications:

### Specifications:

Working frequency range: 58 kHz

Power supply: 110 V / AC - 24 V / AC

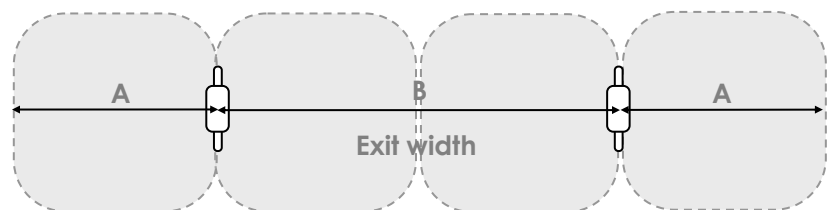
Power consumption: 35 W

Ambient temperature: 0 ° - 30 ° C

Weight: 22 kg

Antenna dimensions: 1655x330x76 mm Dimensions of base: 356x120 mm

Format of the advertising space: 1470 x 280 mm



### Alarmzone in feet

Tag Type	A	B	A
Label Type MUS-DR	3ft	6ft	3ft
Hardtag Super Tag	3ft	6ft	3ft
Micro Shell, Micro Pencil, Lanyard Tag	3ft	6ft	3ft
Shell, Mid Pencil	4.3ft	8.5ft	4.3ft
Super Pencil	4.9ft	9.8ft	4.9ft

### Remark:

For physically reasons a reduced detection performance can happen in the middle between transceiver antennas. We recommend the use of powerful WG Tags built to work perfect with this system. Under performing labels will reach lower detection levels. And lower detection height.

To avoid alarms by labels in the close proximity of the antennas, a safety zone with no tags ( about

40-45% of the exit width) should be kept on all sides.

AM EAS systems are radio transmission systems on the approved working frequency of 58 KHz. Devices being unsuppressed or not corresponding to recent standards (EN 300330 / EN 301489-3) can cause interference and negatively affect system performance. Changes in the environment and surrounding may require a retuning of any EAS System.

### Product Codes:

#### Components

WG WFAG

WG SPS

Ad Guard Wi-Fi Antenna

Smart Power Supply

### Configured Sets:

KWFAG-1

KWFAG-2

KWFAG-3

KWFAG-4

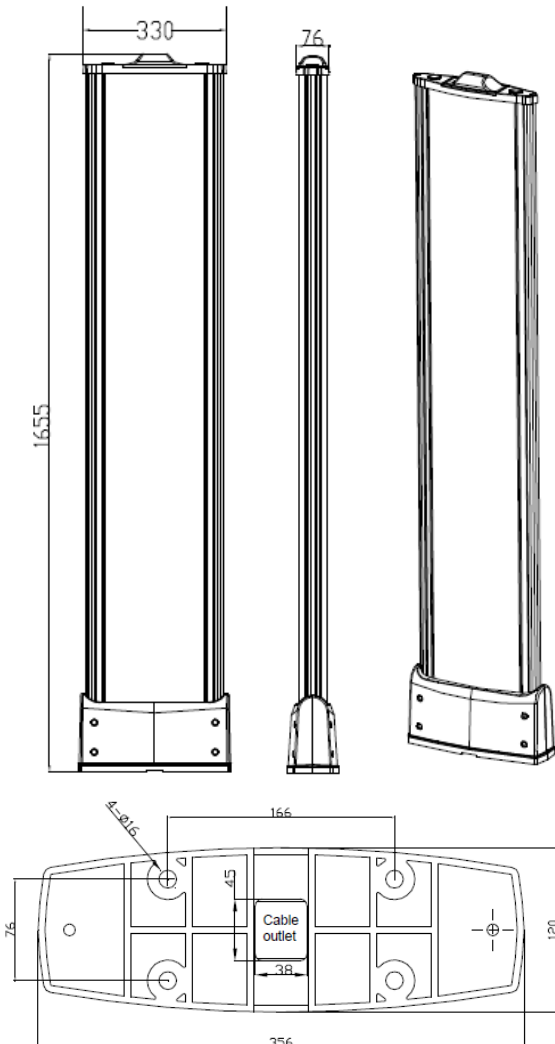
(Antenna, Power supply and cable)

Antenna-System 1

Antenna-System 2

Antenna-System 3

Antenna-System 4



## Ad Guard XL Wi-Fi



## Zero False Alarm\* 58 KHz Acoustomagnetic EAS

\*our patented system algorithm avoids false alarms when walking through the system.

## Ad Guard XL Wi-Fi

### More advertising Space

Effective theft protection and additional advertising space  
AD Guard XL is the big brother of the Ad Guard article surveillance family.

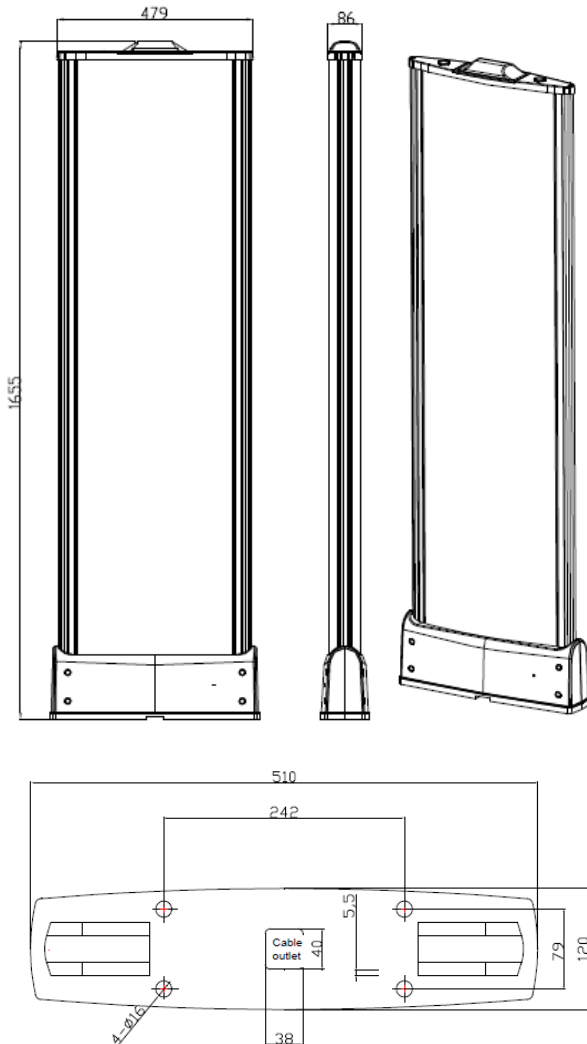
Because advertisement sometimes need more space for better recognition or antennas need larger circuits for enhanced performance. AD Guard XL provides up to 9ft clear passage width between the antennas.

Most customers use the advertising space for permanent image communication.

The system software can be optimized to your selection of resonator or ferrite based hard tags or labels.

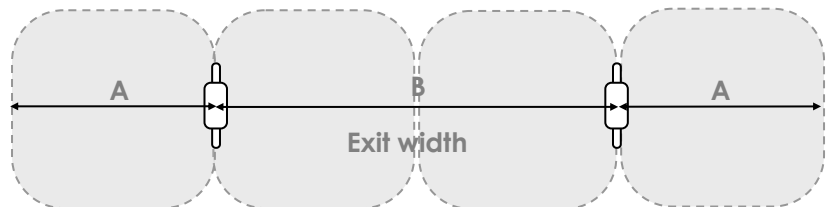


## Ad Guard XL Wi-Fi Specifications



### Specifications:

Working frequency range: 58 kHz Power supply: 110 V / AC - 24 V / AC Power consumption: 39 W Ambient temperature: 0 ° - 30 ° C Weight: 27 kg Antenna dimensions: 1655x429x76 mm Dimensions of base: 356x120 mm Format of the advertising space: 1470 x 425 mm



### Alarm zone in feet

Tag Type	A	B	A
LabelsType MUS-DR	4ft	240	4ft
Hardtag Super Tag	4ft	240	4ft
Micro Shell, Micro Pencil, Lanyard Tag	4ft	240	4ft
Shell, Mid Pencil	5.3ft	320	5.3ft
Super Pencil	190	380	190

### Remark:

For physically reasons a reduced detection performance can happen in the middle between transceiver antennas. We recommend the use of powerful WG Tags built to work perfect with this system. Under performing labels will reach lower detection levels. And lower detection range.

To avoid alarms by labels in the close proximity of the antennas, a safety zone with no tags ( about 40-45% of the exit width) should be kept on all sides.

AM EAS systems are radio transmission systems on the approved working frequency of 58 KHz. Devices being unsuppressed or not corresponding to recent standards (EN 300330 / EN 301489-3) can cause interference and negatively affect system performance. Changes in the environment and surrounding may require a retuning of any EAS System.

### Product Codes: Components

WG WFAGX      Ad Guard XL Wi-Fi Antenna Smart Power Supply Antenna,  
WG SPS 24      Power Supply and Cable)

### Configured Sets:

- K WFAGX-1 Antenna-System 1
- K WFAGX-2 Antenna-System 2
- K WFAGX-3 Antenna-System 3
- K WFAGX-4 Antenna-System 4



## Ad Guard / Ad Guard XL Wi-Fi Applications:



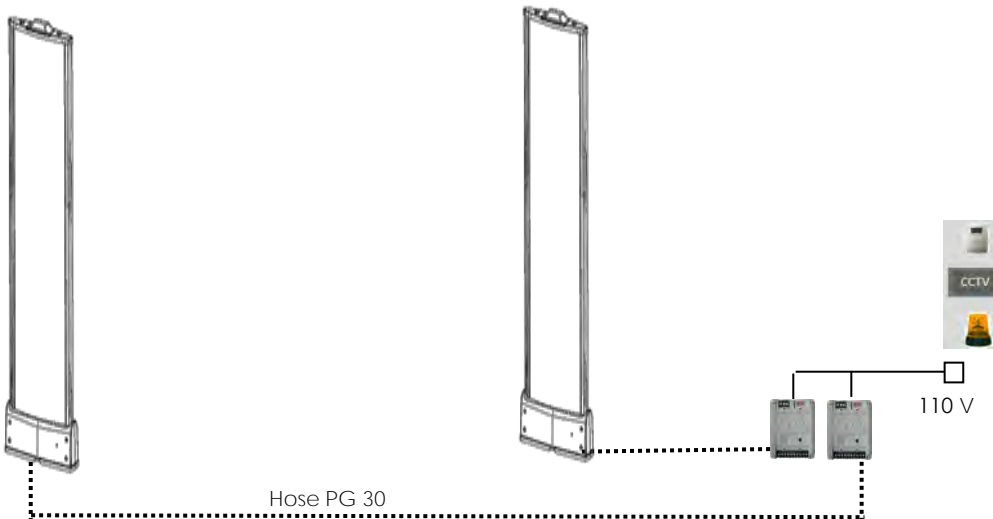
Wi-Fi Ad Guard antennas are common in every retail environment. Whether the advertising space transports a permanent advertising claim or for your changing promotions. It is your choice.

WG will provide and mount your first advertising poster. Professionally printed on durable PP material from your PDF file format 147 x 28 cm for Ad Guard) or 147 x 42.5 cm for Ad Guard XL.

## Some design examples:



## Installation description for Wi-Fi Ad Guard and Ad Guard XL



### Preparations:

110 V, on common phase with all Plastic PG30 hose between power supply and system controller.

Dry contacts for connection to external alarms and CCTV systems at the SPS power supply

The antennas are mounted by means of drilled and cemented into the ground stud. Underfloor heating or water pipes in areas of installation are important to announce. For floor heating optional special steel floor adhesive plates can be supplied, on which the antennas can be screwed, without having to perform drilling.

The alarm is audible and visual directly on the antenna or at an optional remote alarm unit. Each antenna is fed by a 24 V voltage through a system cable from the SPS Smart Power Supply. Cables are usually run through PG-30 plastic protection pipes in the ground or cable tunnels. Since the antennas are operated with 24 V low voltage only, the cables may be placed directly into a grid in the floor and covered by silicone. Connection to the WG EAS remote tuning service is easily made by WiFi. The system controller is ready prepared.

The Smart Power Supply (SPS) is not only a power supply, it offers some very useful troubleshooting functions and therefore should be accessible for staff i.e. in the counter, the managers room or possibly incorporated in an IT or CCTV-19" Rack. It is connected via the enclosed 8 m long six-pin cable or for distances up to 60 m a through a cable with larger diameter (i.e. WG EAS System cable Type 2 with i.e. 7x1,5mm). SPS has connection joints for dry contacts to trigger a CCTV-system in case of EAS alarm or jammer alarm. Also the alarm volume can be adjusted remotely from the SPS. The exclusive TX-switch is a great support for the store people if they search for labels in the security zone. SPS can be clicked on a standard DIN-rail (Din 46277-3) holder system.

### Preparations:

110V (min. 3x2.5 mm<sup>2</sup>) on dedicated circuit, at the same phase (L1 recommended) with the accessories. Fuse minimum 16 A. Current consumption max. 50 W per system, and 10/120 W (continuous / peak-pulse) per deactivator. Power sockets shall be un twistable to avoid phasing issues. PG 30 Plastic conduits (recommended. 30 or 32mm)with inserted pull wire, btw. antenna and power supply as indicated in the project outline.

## Smart Power Supply (SPS) Specifications.

### The universal power supply for security systems:

Each system master or extender antenna requires a SPS. We recommend to have the SPS accessible for the store staff to disable and reboot (1) the system in case of a malfunction.

The 110 V (16 A slow blow fuse) connection is made via terminal box (2) by a regular min. 3x2.5 mm<sup>2</sup> cable. Dedicated circuit (separate fuse), and common phase (L1) with all acoustomagnetic accessories is recommended. Power consumption max 50 W per system, per deactivator 10/120 W (continuous or pulse).

If a system gives spontaneous alarms the TX switch (4) helps to verify if maybe is a system tuning or synchronization issue or a user error (tags too close) is the reason.

The alarm volume (5) can be varied. Dry contacts for connection to external alarm consoles or CCTV-Systems systems are applied to the output terminal block (6).

Plastic conduits with pull wire (PG 30 recommended.) between SPS and antenna shall be prepared as specified in the respective project outline and drawings.

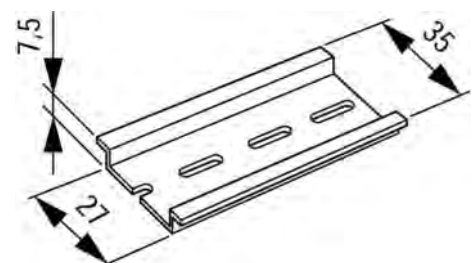
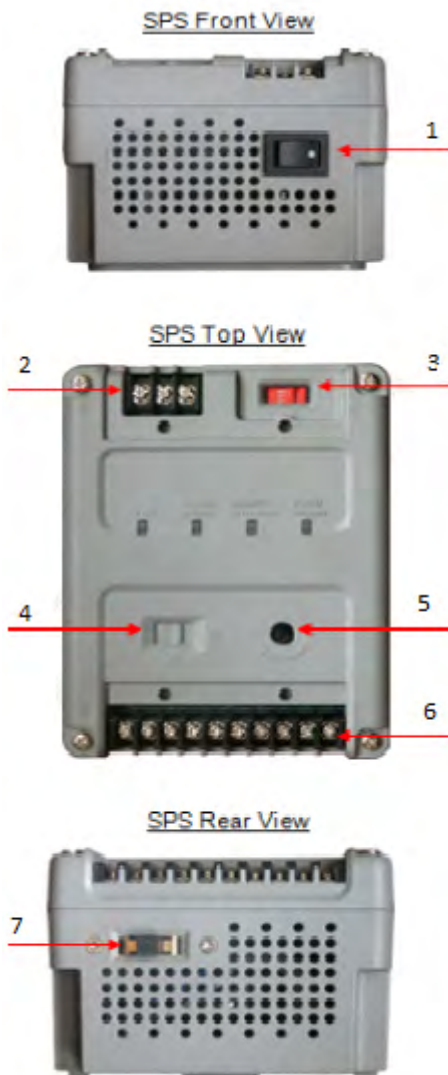
### Dimensions:

SPS-Power Supply: 110 x 138 x 80 mm 1,8 kg

### Product Codes:

WG SPS

Smart Power Supply



SPS can be clicked into a standard DIN 46277-3 rail holder system.

We recommend to install the SPS in a dedicated box, locked but easy accessible for service needs.





Your Partner in Profit

## Wi-Wi Door Guard



Zero False Alarm\* 58 KHz Acoustomagnetic EAS

\*Our patented system algorithm avoids false when walking through the system.



## Wi-Fi Door Guard

Distinctively designed for any decor, Wi-Fi Door Guard delivers functional/operational superiority over EAS pedestal systems. Wi-Fi Door Guard is available in gray, black and white and upon customer request, customizable with your company logo or any other visual requirements. As its name suggests, Door Guard is attached to the door frame or glass store front. Wi-Fi Door Guard is available as a single or dual antenna.

Exit widths between 6ft and up to 8ft depending on the hard tag used.

### Features & Benefits

Superior detection range

Wi-Fi technology

Fully compatible with all AM tags and labels

Comes in various colors

Patented noise cancellation technology

Alarm volume control

Jammer detection

Optional remote external alarm



# Lane Guard



Zero False Alarm\* 58 KHz Acoustomagnetic EAS

\*Our patented system algorithm avoids false when walking through the system.

## BTL Lane Guard

Lane Guard is the EAS system for the self-checkout area. It was specifically designed to meet the requirements of European food retailers and specialty stores.

Lane Guard can adapt to the different checkout types. The optional mounting bracket act simultaneously as a pro-ector to avoid the impact of shopping carts crashing against an antenna. The design of the bracket leads heavily laden shopping trolleys easily around the EAS system without damaging it. Depending on the checkout type

Lane Guard can be mounted free standing or being attached to check stand, wall or customer guidance systems. Lane Guard's standard application is as a single antenna. Therefore the ergonomics of the checkout counter remains entirely unchanged. Nothing slows the throughput and no antenna hinders the customer flow. The system software can be optimized to your selection of resonator or ferrite based hard tags or labels.





## BTL Lane Guard in Hypermarkets



The design of Lane Guard was made for simple integration in check-stands on the one hand and the robustness in tough retail environments in the foreground. Most EAS Systems are not built for the unavoidable contact with shopping carts and will show wear out quickly.

Special protectors and robust ABS material antenna body solve this problem.

Most Lane Guard's are used as a single antenna in the counter. The antenna is mounted on the opposite side of cash and monitors. They check the lane from the rear. So there is nothing between customer and cash-ier and the ergonomics of the checkout counter is not affected.



At Tandem cash desk's the antenna is centered between the lanes and is attached by the FS kit to the customer guiding elements (eg Wanzl).

Lane Guard with FM Kit with mounting  
Bracket and protector for check stand



Lane Guard with FS Kit as mounting bracket and protector used on a WANZL guidance system.



## BTL Lane Guard in Specialty Stores



Of course, Lane Guard can be installed in dual or triple system configurations for larger exits. Often used to protect the front entrance of Hypermarkets and specialty stores. A dual configuration also fits perfectly to protect cash desks with a wider exit width, i.e. lane wider for wheel chairs of handicapped customers.



The durable ABS body of Lane Guard makes it enormously robust. A dual configuration can protect a free entrance of 5ft - 6ft using labels or small hard tags.

## Lane Guard Specifications:

### Specifications.:

Working frequency range: 58 kHz

Power supply: 110 V / AC - 24 V / AC

Power consumption: 35 W

Ambient temperature: 0 ° - 30 ° C

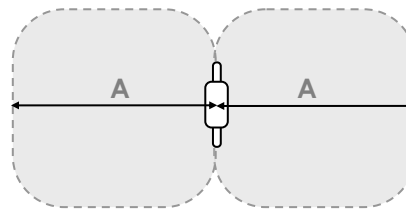
Weight: 22 kg

Antenna dimensions: 1400x360x39mm 25

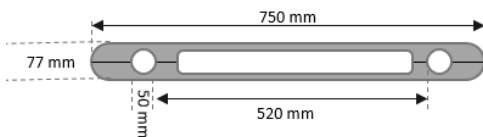
kg Dimensions Base: 440x71 mm

FS Kit: 800x120x90 mm, 1.1 kg

FM Kit: 520x120x90 mm 0.6 kg



Alarmzone in feet	
Tag Type	A
Label Type MUS-DR	3ft
Hardtag Super Tag	3ft
Micro Shell, Micro Pencil, Lanyard Tag	3ft
Shell, Mid Pencil	4.5ft
Super Pencil	5ft



### Remark:

For physically reasons a reduced detection performance can happen in the middle between transceiver antennas. We recommend the use of powerful WG Tags built to work perfect with this system. Under performing labels will reach lower detection levels. And lower detection height.

To avoid alarms by labels in the close proximity of the antennas, a safety zone with no tags ( about 40-45% of the exit width) should be kept on all sides.

AM EAS systems are radio transmission systems on the approved working frequency of 58 KHz. Devices being unsuppressed or not corresponding to recent standards (EN 300330 / EN 301489-3) can cause interference and negatively affect system performance. Changes in the environment and surrounding may require a retuning of any EAS System.

## Product Codes:

### Components:

WG BTL LG

WG LGTR FS WG LGTR FM

WG SPS

Lane Guard Antenna with base

Lane Guard mounting bracket for Wanzl or other guidance

systems Lane Guard mounting bracket for wall or cash desk

mounting Smart Power Supply

(Antenna, Power supply and cable)

### Configured Sets:

K BTL LG-1

K BTL LG-2

• 1 Antenna System

• 2 Antenna System

## Installations description For WG Lane Guard.



The antennas are mounted by means of drilled and cemented into the ground stud. Underfloor heating or water pipes in areas of installation are important to announce. For floor heating optional special steel floor adhesive plates can be supplied, on which the antennas can be screwed, without having to perform drilling.

The alarm is audible and visual directly on the antenna or at an optional remote alarm unit. Each antenna is fed by 24V voltage through a system cable from the SPS Smart Power Supply. Cables are usually run through PG-30 plastic protection pipes in the ground or cable tunnels. Since the antennas are operated with 24 V low voltage only, the cables may even be placed directly into a grid in the floor and covered by silicone. Connection to the WG EAS remote tuning service is easily made by Wi-Fi. The system controller is ready prepared.

The Smart Power Supply (SPS) is not only a power supply, it offers some very useful troubleshooting functions and therefore should be accessible for staff i.e. in the counter, the managers room or possibly incorporated in an IT- or CCTV-19" Rack. It is connected via the enclosed 8 m long six-pin cable or for distances up to 60 m a through a cable with larger diameter (i.e. WG EAS System cable Type 2 with i.e. 7x1,5mm). SPS has connection joints for dry contacts to trigger a CCTV-system in case of EAS alarm or jammer alarm. Also the alarm volume can be adjusted remotely from the SPS. The exclusive TX-switch is a great support for the store people if they search for labels in the security zone. SPS can be clicked on a standard DIN-rail (Din 46277-3) holder system.

### Preparations:

110V (min. 3x2.5 mm<sup>2</sup>) on dedicated circuit, at the same phase (L1 recommended) with the accessories. Fuse minimum 16 A. Current consumption max. 50 W per system, and 10/120 W (continuous / peak-pulse) per deactivator. Power sockets shall be untwistable to avoid phasing issues. PG 30 Plastic conduits (recommended. 30 or 32mm) with inserted pull wire, btw. antenna and power supply as indicated in the project outline.

## Smart Power Supply (SPS) Specifications.

### The universal power supply for security systems:

Each system master or extender antenna requires a SPS. We recommend to have the SPS accessible for the store staff to disable and reboot (1) the system in case of a malfunction.

The 110 V (16 A slow blow fuse) connection is made via terminal box (2) by a regular min. 3x2.5 mm<sup>2</sup> cable. Dedicated circuit (separate fuse), and common phase (L1) with all acoustomagnetic accessories is recommended. Power consumption max 50 W per system, per deactivator 10/120 W (continuous or pulse).

If a system gives spontaneous alarms the TX switch (4) helps to verify if maybe is a system tuning or synchronization issue or a user error (tags too close) is the reason.

The alarm volume (5) can be varied. Dry contacts for connection to external alarm consoles or CCTV-Systems systems are applied to the output terminal block (6).

Plastic conduits with pull wire (PG 30 recommended.) between SPS and antenna shall be prepared as specified in the respective project outline and drawings.

### Dimensions:

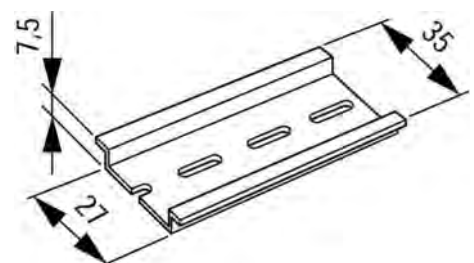
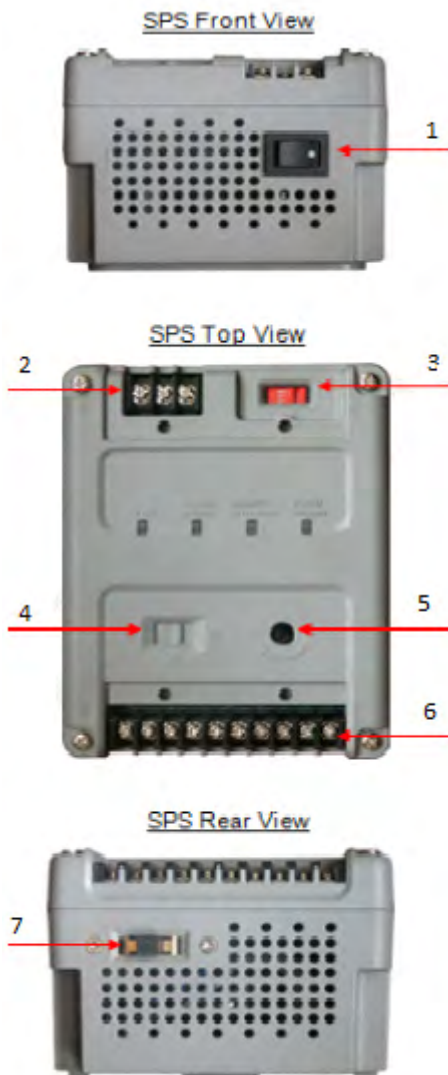
SPS Power supply:

Product Codes:

WG SPS

110 x 138 x 80 mm 1,8 kg

Smart Power Supply



SPS can be clicked into a standard DIN 46277-3 rail holder system.

We recommend to install the SPS in a dedicated box, locked but easy accessible in service needs.



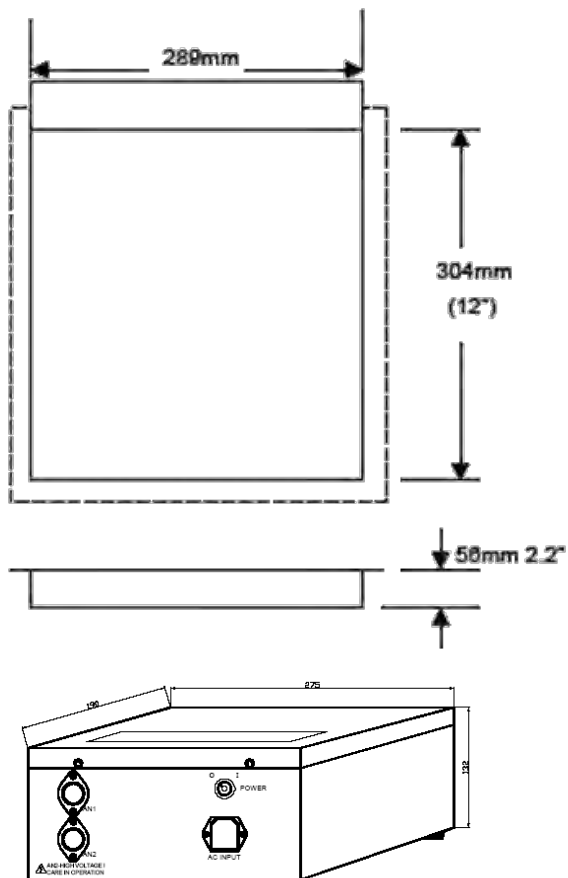
# Accessories



Zero False Alarm\* 58 KHz Acoustomagnetic EAS

\*Our patented system algorithm avoids false alarms when walking through the system.

# Fast Pad Deactivator



**Extremely powerful deactivator for all acoustomagnetic labels.**

Mounting:  
horizontal or vertical  
Countertop / flush mount or under-table  
mounting with included mounting bracket

Operating Frequency: 58 kHz Detection  
height: up to 12 cm  
Speed: to 2 labels / Sec.  
Signaling: visual and audible Operating  
temperature:  
0 ° - 49 ° C (32-120 ° F)  
at 0-85% humidity  
Electricity: 100/120 VAC - 60 Hz  
220/240 VAC - 50 Hz

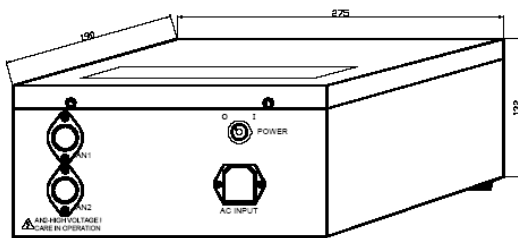
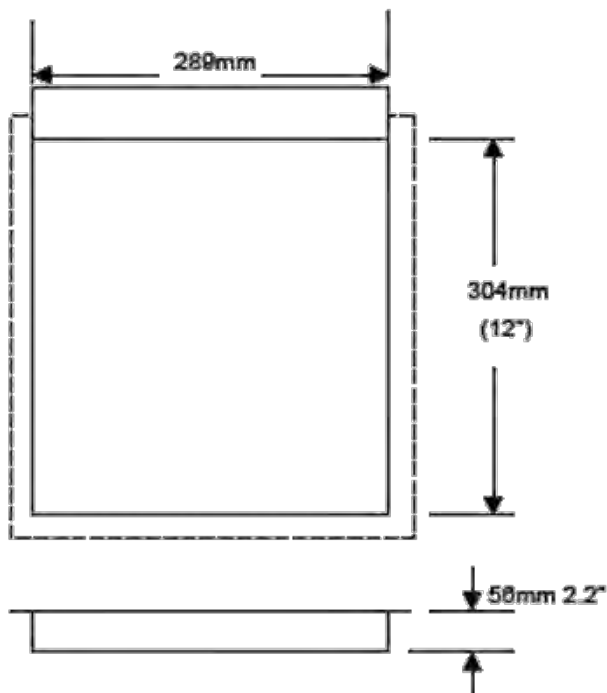
## Dimensions / weight:

Deactivator:  
295 x 280 x 47 mm, 4.5 kg  
Mounting bracket  
External dimensions:  
320 x 307 x 57 mm, 0.4 kg  
Neckline: 304 x 289 mm  
Controller  
275 x 190 x 140 mm, 3.0 kg

Scope of delivery:  
Fast Pad Deactivator pad  
Control electronics with key switch  
2 Keys  
Mounting bracket for sub-base and  
mounting incl. Covering plate installation  
template  
Connecting cable 1.5 m  
230 V connection cable documentation

Art.Code: WGFP58-2

## Fast Pad POS Deactivator



**Extremely powerful deactivator for all acoustomagnetic labels, special built for un-der counter mounting in check stands with conveyor belts.**

Mounting:  
horizontal or vertical  
Countertop / flush mount or under-table mounting with included mounting bracket

Operating Frequency: 58 kHz  
Detection height: up to 12 cm  
Speed: to 2 labels / Sec.  
Signaling: visual and audible  
Operating temperature:  
0 ° - 49 ° C (32-120 ° F)  
at 0-85% humidity  
Electricity: 100/120 VAC - 60 Hz  
110 VAC - 50 Hz

### Dimensions / weight:

Deactivator:  
295 x 280 x 45 mm, 4.5 kg  
Mounting bracket  
External dimensions:  
320 x 307 x 57 mm, 0.4 kg  
Neckline: 304 x 289 mm  
Contoller: 275 x 190 x 140 mm, 3.0 kg

Scope of delivery:  
Fast Pad POS Deactivator pad  
Control electronics with key switch  
2 Keys  
Mounting bracket for sub-base and mounting incl. Covering plate  
installation template  
Connecting cable 1.5 m  
110 V connection cable  
documentation

Art.Code: WGFP58-POS

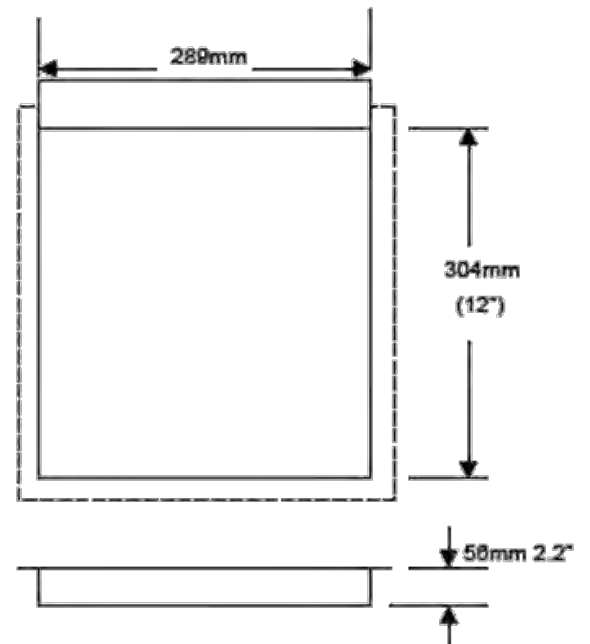
## Fast Pad POS deactivator installation under conveyor belt:



Please check warranty agreements of the check stand manufacturer first. We recommend the physical installation below the conveyor of a check stand should be done by a specialist.

Installation steps:

- Remove conveyor Band
- Customize section of the stainless plate in conjunction with the accompanying card-board template and deburr edges.
- Mount bracket and place deactivator into bracket
- Cover deactivator and cover edges with included adhesive sheet to avoid unnecessary wear of the roller band.
- Close conveyor Band



Deactivator in operation



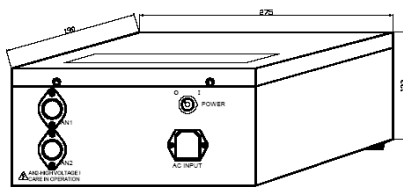
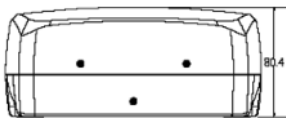
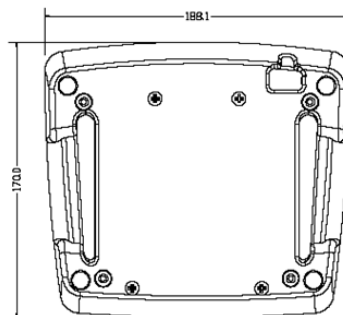
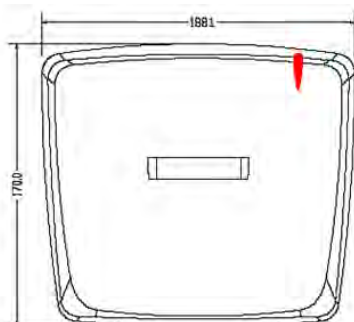
# Stealth Pad Deactivator



**Powerful deactivator for all acoustomagnetic labels.**

Mounting:  
horizontal or vertical  
Counter top / flush mount or under-  
table mounting with included mounting  
bracket

Operating Frequency: 58 kHz  
Detection height: up to 12 cm  
Speed: to 2 labels / Sec.  
Signaling: visual and audible  
Operating temperature:  
0 ° - 49 ° C (32-120 ° F)  
at 0-85% humidity  
Electricity: 100/120 VAC - 60 Hz  
220/240 VAC - 50 Hz



Dimensions / weight:  
Deactivator  
188.1 x 170 x 80.4 mm, 3.0 kg  
Under counter or flush mount  
External dimensions:  
235 x 200 x 86.6 mm, 0.24 kg  
Cutout  
205 x 185 mm  
Controller 275 x 190 x 140 mm, 3.0 kg

Scope of delivery:  
Stealth Pad deactivator pad  
Control electronics with a key switch  
2 Keys  
Mounting bracket for sub-base and  
mounting incl. Covering plate  
installation template  
Connecting cable 1.5 m  
110 V connection cable documentation

Art. Code: WG SP58

# Stealth Pad II Deactivator



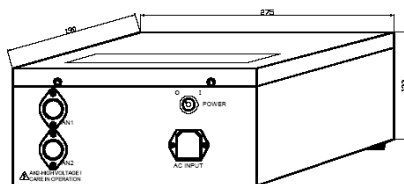
**Easy to integrate deactivator for all acoustomagnetic labels.**

Mounting:  
horizontal or vertical  
Flush mount or under-table

Operating Frequency: 58 kHz  
Detection height: up to 12 cm  
Speed: to 2 labels / Sec.  
Signaling: visual and audible Operating temperature:  
0 ° - 49 ° C (32-120 ° F)  
at 0-85% humidity  
Electricity: 100/120 VAC - 60 Hz  
220/240 VAC - 50 Hz

Dimensions / weight:  
Deactivator  
236 x 180 x 65 mm, 3.0 kg  
Cutout 215 x 165  
Controller  
275x190x140 mm, 3.0 kg

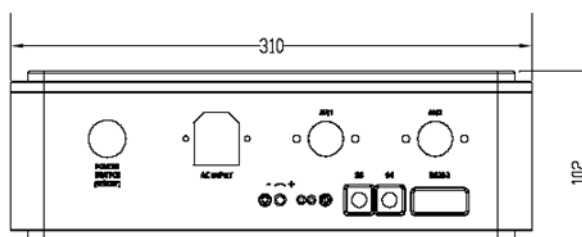
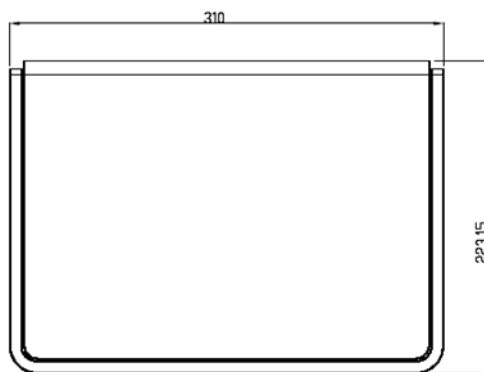
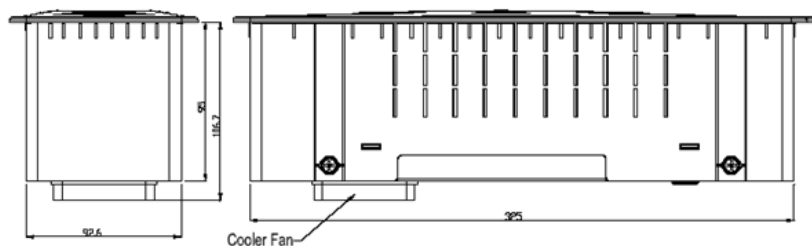
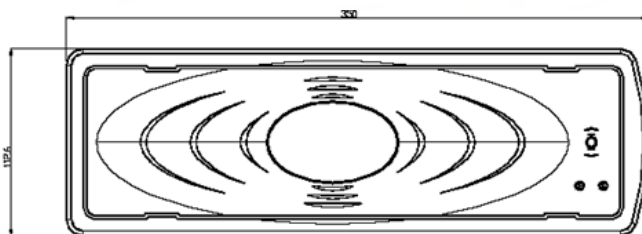
Scope of delivery:  
Stealth Pad II deactivator pad  
Control electronics with key switch  
2 Keys  
Mounting bracket for sub-base and mounting incl. Covering plate  
installation template  
Connecting cable 1.5 m  
110 V connection cable  
documentation



Art. Code: WG SP58 II

# Lynx Deactivator

## Slim Deactivator for all Acousto Magnetic labels.



Mounting:  
horizontal or vertical  
Countertop / flush mount or under table  
mounting with included mounting bracket

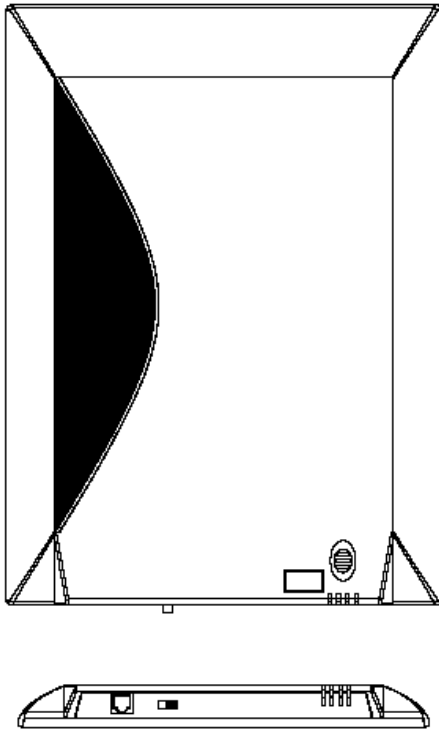
Operating Frequency: 58 kHz  
Detection height: up to 8 cm  
Speed: to 2 labels / Sec.  
Signaling: visual and audible  
Operating temperature:  
0 ° - 49 ° C (32-120 ° F)  
at 0-85% humidity  
Electricity: 100/120 VAC - 60 Hz  
110 VAC - 50 Hz

Dimensions / weight:  
Deactivator  
188.1 x 170 x 80.4 mm, 3.0 kg  
Under counter or flush mount  
External dimensions:  
235 x 200 x 86.6 mm, 0.24 kg  
Cutout 205 x 185 mm  
Controller 275 x 190 x 140 mm, 3.0 kg

Scope of delivery:  
Stealth Pad II deactivator pad  
Control electronics with key switch  
2 Keys  
Mounting bracket for sub-base and  
mounting incl. Covering plate  
installation template  
Connecting cable 1.5 m  
110 V connection cable documentation

Art. Code: WG Lynx

# Double Checker



You'll never again forget to remove a tag from a good customer's merchandise. The double checker recognizes tags and reminds the cashier before handing over the goods to the customer.

Often mounted under the countertop or just placed on the counter.

Dimensions 34 x 24 x 2,5 cm.

## Electro-Mechanical Specifications

### Mechanical - Double Checker Box

Dimensions (LxWxH) 34x24x2.5cm (13.4"x9.5"x1")  
Weight 0.7 Kg (0.3lb)

### Electrical - Double Checker Box

AC Voltage 2 x 10vac @300mA  
(Stepdown from 110/220vac)  
Current Draw 0.1A rms  
Input Power < 3Watts

### Recommended Power Supply (Not Provided)

AC Voltage 100-120vac or 220vac @50/60Hz  
(Stepdown to 2 x 10vac @300mA)  
Current Draw 0.027A rms  
Input Power < 6 Watts

### Regulatory

Safety CE EN60950  
EMC FCC P91 WGDC58K



**Product name:** Double Checker

**Product-Code:** WG-DC58-1



## WG Smart IR Detacher



Opens Wave tags with IR code protection and SuperLock magnetic lock. During the detaching the Wave detacher transmits a unique infrared code to the tag. The tag accepts the code and allows detaching without alarm. If an IR 4 Alarm Smart tag is alarming, after an attempt to tamper with the tag, the same signal of the Wave detacher silents the alarm. The detacher opens all magnetic Super lock and Standard lock tags.

The IR Smart detacher can be connected directly to a USB port on a POS PC. When the PC is turned off, the IR code function of the opener will automatically become disabled. If one tries to open a IR Smart tag, on the disabled detacher the tag alarm is triggered immediately.

Powered by USB-A or 100 V using the included USB adapter.  
Length of connecting cable: 250 cm

dimensions:

Product Code:  
WG WAVE IR DT



## WG Smart IR detacher



Opens Wave tags with IR code-protection and SuperLock magnetic lock. During the detaching the Wave detachder transmits a unique infrared code to the tag. The tag accepts the code and allows detaching without alarm. If a Wave 4-Alarm tag is alarming, maybe after an attempt to tamper the tags, the same signal of the IR Smart detachder silence the alarm. The detachder opens all magnetic SuperLock and Standard Lock tags. The Wave detachder can be connected directly to a USB port on a POS PC. When the PC is turned off, the IR-code function of the opener will automatically become disabled. If one tries to open a Wave tag, on the disabled detachder an tag alarm is triggered immediately.

Powered by USB A or 110 V using the included USB adapter.

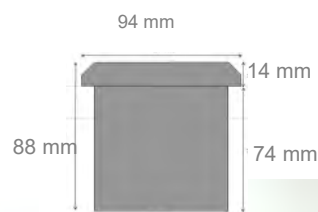
Length of connecting cable: 250 cm

dimensions:  
1500x100x55 mm  
1.1 kg

Product Code:  
WG WAVE IR DT



## WG Smart IR detacher



79mm

Bolt circle of the table  
cutout: 80mm


Flush mount version of the Wave detacher. For easier handling on large merchandise the detacher can be taken out of its hold-ing bracket with an easy to use twist lock feature. Opens Wave tags with IR code-protection and superlock magnetic lock. During the detaching the Wave detacher transmits a unique infrared code to the tag. The tag accepts the code and allows detaching without alarm. If a Wave 4-Alarm tag is alarming, maybe after an attempt to tamper the tag, the same signal of the Wave detacher silent the alarm. The detacher opens all magnetic super-lock and Standard Lock tags. The Wave detacher can be connected directly to a USB port on a POS PC. When the PC is turned off, the IR-code function of the opener will automatically become disabled. If one tries to open a Wave-tag, on the disabled detacher an tag alarm is triggered immediately.

Powered by USB-A or 110 V using the included USB adapter.

Length of connecting cable: 250 cm

Easy installation with a table cut of 80 mm diameter

Product Code:  
WG WAVE IR



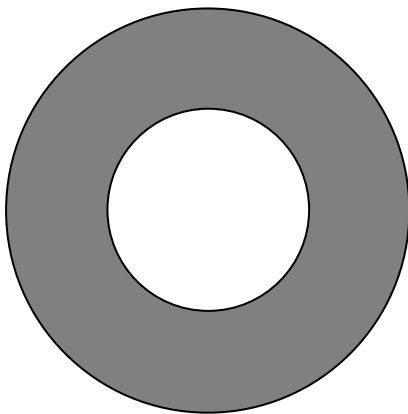


## PS DTD CH Super lock detacher

SuperLock detacher for all Super Lock tags (Pencil, Shell, Lanyard, Flap, etc.) designed to open tags with both magnetic lock types conventional and the stronger SuperLock magnetic lock.

Free of maintenance.

Tabletop mounting with enclosed slip ring or flush mount (about 2 mm construction height) with a 62 mm circle table cut. Opener can be attached with threaded rod hidden by bottom of the table. A plug closure to prevent unauthorized use is included.



Ø 70 mm

Table cut for flush mount Ø 62 mm

No power supply required.

Product Code: WG-PSDTD-CH



Table top mount with enclosed Slip Ring.



## DSM Super lock detacher



Super Lock detacher is designed specifically for shell tags, but opens any EAS tag with regular or strong magnetic Super Lock.

This detacher has a great price / performance value.

Silver metallic.

Tabletop mounting Detacher can be attached or glued with threaded rod hidden by bottom of the table.

No power supply required.

dimensions

75x35 mm

0.4 kg.

Product Code: WG-DSM

## Mobile Super Lock Detacher D905



Compact but very powerful SuperLock de-tacher with coated steel cord for attachment to the checkout counter.

Especially in bags, pouches, hard goods or large textile parts, the handling is easier if the cashier holds the small detacher against the tag instead of trying to move the tag on the product into the detacher.

Robust handy case.

Fits Super Lock tags (Pencil, Lanyard, Flap, etc.), and also opens tags with conventional magnetic locks. Not suitable for shell design tags.

Absolutely maintenance and wear-free.

No power supply required.

Dimensions:

Diameter 42 mm Height 37 mm

Product code:

WG-D905



## EXA-G Digital External Alarm



Available in Black or White

External digital alarm console for all WG EAS Systems.

This alarm console provides an additional audible alarm in more remote areas or is used wherever the standard alarm is not sufficient because of loud background music or other sound around you.

WG-EXA-G offers a selection of different alarm tones,

**The feature of a voice recording for individual messages in the event of an alarm is unique.**

Display with alarm counter

Connection can be made from the system controller or the smart Power supply. A standard CAT5/ CAT 6 cable can be used for the connection.

WG-EXA-G for connection to WG theft systems

Height 210 mm  
Width 152 mm  
Depth 30 mm  
10 VAC, 50/60 Hz

## EXA-G-II Flush Mount External Alarm Console

External digital alarm console for all WG EAS Systems.

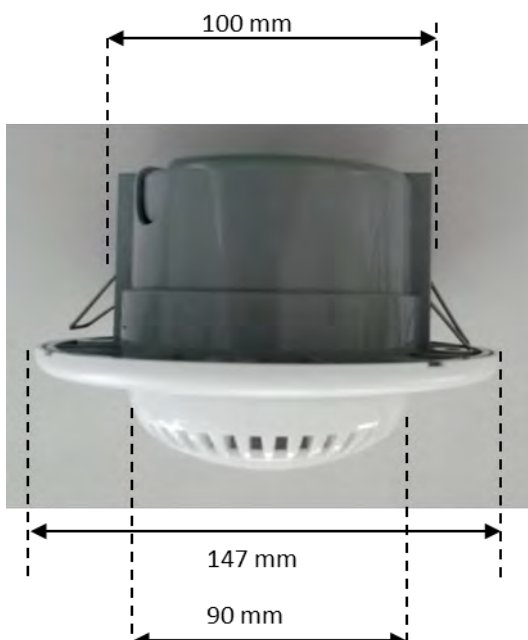
This alarm console is typically installed with concealed WG EAS Systems such as floor guard or sky guard. It provides an additional audible alarm when the control box is installed inside the false ceiling or in side a cabinet. The volume and tone of the audible alarm can be selected from various sounds.

The discrete design of the EXA-FG looks like a regular smoke detector. In case of an alarm the inner part becomes illuminated and turns red.

Mounting is easy. Like small light-spots the mounting tray is installed in a 100mm round hole in the ceiling. If the setting of volume or tone should be changed, the unit itself is released with a twist lock mechanism, while the mounting tray stays in the ceiling.

Connection can be made from the system controller or the smart Power supply. A standard CAT5 / CAT 6 cable can be used for the connection.

Cutout: 100 mm diameter  
Cover-Ring: 147 mm  
Alarm unit 90mm diameter





## EXA-G-III Flush Mount External Alarm

External digital alarm console for all WG EAS systems.



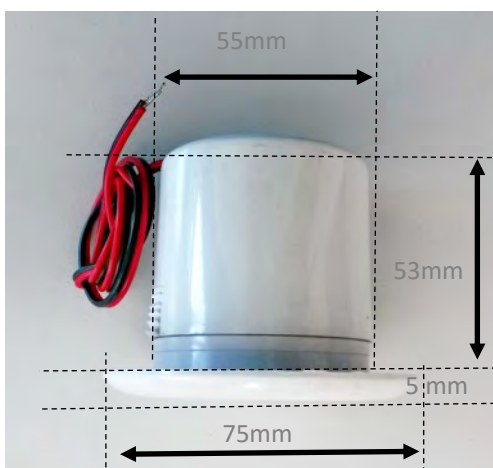
This alarm console is typically installed with concealed WG-EAS Systems such as floor guard or sky guard III. It provides an additional audible alarm when the control box is installed inside the false ceiling or inside a cabinet. The alarm volume can be remotely set and adjusted on the dedicated switch on the Smart Power Supply SPS.

The discrete design of the EXA-G III makes it visually disappear.

Mounting is easy. Like small light-spots the mounting tray is installed in a 55 mm round hole in the ceiling.

Connection is to be made from the system controller. A standard two pin alarm cable is sufficient. CAT5 / CAT 6 cable can be used for the connection.

Cutout: 55 mm diameter  
Cover-Ring: 75mm  
Alarm unit 53 mm depth



## Stainless Steel Bumper



Our antennas, in particular the Ad Guard models are built for retail environments and are enormously robust.

In some areas of the retail store, particularly where shopping cart or pallets are used an added protection makes sense to avoid mechanical damage to the antennas.

Different versions are crafted depending on your needs.



## External Signal Console for Deactivators



WG External alarm console deactivators  
WG-EXA-FPSP.

This alarm console delivers an additional acoustic signal used everywhere, where the standard signal is not sufficient because of loud background music or other sound around you.

WG-EXA-FPSP for connection to WG deactivators  
Height 99 mm  
Width 69 mm  
Depth 38 mm



# IR Smart Alarming tags



Zero False Alarm\* 58 KHz Acoustomagnetic EAS

\*our patented system algorithm avoids false alarms when walking through the system.



## What is WG's 4-Alarm technology?

Store security staff in sensitive and high value stores often report professional thieves with special tool as like detacher-hooks or magnets. However the best protection, the self-alarming WG IR Smart Tags. Any unauthorized attempt to open a tag and every manipulation or tampering, even with a stolen original detacher is recognized by the 4-Alarm tag which immediately alarms.



Alarm 1: The alarm of the Wave 4-alarm tag is triggered when the tag enters the detection field of an EAS system. The tag alarm persists for a defined period, even if the thief tries to escape through the mall or out of the house.

Alarm 2: The EAS system alarm of is triggered by the Wave 4-alarm tag, as traditional labels do.

Alarm 3: The Wave tag immediately triggers an alarm if the label is damaged or when the steel lanyard is cut. So the thief is revealed immediately and on the spot.

Alarm 4: Wave 4-alarm labels have a code monitored super-lock closure. Standard detacher are too weak and even an attempt at theft with a Super Lock fails because the Wave 4-alarm tag recognizes "unauthorized" detacher's and immediately sounds an alarm.

The most advanced and secure EAS detaching is Wave. This opener sends a defined code via infrared to the 4 alarm high security tag positioned on the detacher. Unauthorized open-ing would be recognized by the tags digital signal processing. The Wave detacher can also open all tags with standard or magnetic Super Lock. Through a connection to a USB plug in the POS PC Wave IR opener is only available when the till is open.

## WG IR Smart detacher



Opens Wave tags with IR code protection and SuperLock magnetic lock. During the detaching the Wave detacher transmits a unique infrared code to the tag. The tag accepts the code and allows detaching without alarm. If a Wave 4 Alarm tag is alarming, maybe after an attempt to tamper the tag, the same signal of the Wave detacher silences the alarm. The detacher opens all magnetic SuperLock and Standard Lock tags.

The Wave detacher can be connected directly to a USB port on a POS PC. When the PC is turned off, the IR-code function of the opener will automatically become disabled. If one tries to open a Wave tag, on the disabled detacher an tag-alarm is triggered immediately.

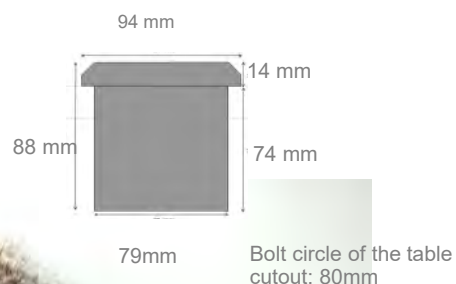
Powered by USB-A or 110 V using the included USB adapter.  
Length of connecting cable: 250 cm

dimensions:  
1500x100x55 mm  
1.1 kg

Article code:  
WG WAVE IR DT  
WG Wave IR opener desktop version



## WG IR Smart Detacher



Flush mount version of the Wave detacher. For easier handling on large merchandise the detacher can be taken out of its holding bracket with an easy to use twist lock feature.

Opens Wave tags with IR code-protection and SuperLock magnetic lock. During the detaching the Wave detacher transmits a unique infrared code to the tag. The tag accepts the code and allows detaching without alarm. If a Wave 4-Alarm tag is alarming, maybe after an attempt to tamper the tag, the same signal of the Wave detacher silent the alarm.

The detacher opens all magnetic super-lock and Standard Lock tags.

The Wave-detacher can be connected directly to a USB port on a POS PC. When the PC is turned off, the IR-code function of the opener will automatically become disabled. If one tries to open a Wave-tag, on the disabled detacher an tag-alarm is triggered immediately.

Powered by USB-A or 110 V using the included USB adapter.

Length of connecting cable: 250 cm

Easy installation with a table cut of 80 mm diameter

Article  
WG

code:  
IR





## IR-Lanyard 4-Alarm tag



IR Lanyard Tag is a four-alarm tag for securing a variety of products. Depending on the length of the loop it is used to secure exclusive jackets and coats, but also for bags, tools, technical products, sports equipment and more.

The integrated steel lanyard is coated and integrated in the electronic circuit of the label. A sensor detects tampering or unauthorized opening.

The logic of the tag examines immediately if a special infra red signal is received from a de-tacher. If the code is missing or faulty a tag-alarm will be triggered immediately. Stolen detachers have no chance.

Standard lengths of lanyards are

7 inches = 18 cm

10 inches = 25 cm

48 inches = 122 cm

Special sizes are available on request.

Product 8.2BS-7

IR Lyrd 58 BS-7

Acoustomagnet 7 Inch

Tag IR Lyrd 58 BS-10

Acoustomagnet 10 Inch

Tag IR Lyrd 58 BS-48

Acoustomagnet 48 Inch

Tag IR Lyrd 8.2BS-7

Radiofrequency 7 Inch

Tag IR Lyrd 8.2BS-10

Radiofrequency 10 Inch

Tag IR Lyrd 8.2BS-48

Radiofrequency 48 Inch





## IR Smart 4 Alarm Pebble tag



IR Pebble Tag is a four-alarm tag to protect high fashion products product's. Like in conventional tags a smooth groove less polished pin is stitched through the garment and thus the tag is positioned.

A sensor detects tampering or unauthorized opening. The logic of the tag examines immediately if a special infra red signal is received from a detacher. If the code is missing or faulty a tag-alarm will be triggered immediately. Stolen detachers have no chance.

Size 59x59x21 mm

Product code:

Tag IR Pebble 58 BS	Acoustomagnetic
Tag IR Pebble 8.2BS	Radiofrequency



## Media Tag / Ninja Tag 4 Alarm tags



Media Tag with Carrier on the battery,  
4-Alarm Lanyard tag on the drill.

These self alarming tags from the WG's 4 alarm series are used to protect demo equipment or products in packaging.

A sensor detects tampering or unauthorized removing.  
Removing without alarm is only possible when tag receives a special infra red signal from a detach. If the code is missing or faulty a tag-alarm will be triggered immediately.  
When selling the product, the IR signal turns the sensor off and the Tag Carrier can be released on a tear-off tab and can be disposed. .  
The tag is re-used, the carrier is a disposable product.

### Media Tag + Carrier

The semi-transparent Media Tag Carrier is self-adhesive and fixes the Media Tag on the surface of the product or packaging.

### Ninja Tag + Carrier

The self adhesive Ninja carrier remains hidden invisible under the tag. The difference is the form factor and footprint.

### Product code:

Tag IR Media 58 BS  
Tag IR Media 8.2  
BS Tag ACC-MTCR

Acoustomagnetic  
Radiofrequent  
Media Tag Carrier

Tag IR Ninja 58 BS  
Tag IR Ninja 8.2 BS  
Tag ACC-Ninja

Acoustomagnetic  
Radiofrequent  
Ninja Tag Carrier



Ninja Tag with Carrier



## 4 Alarm Bottle Tag



Bottle tag in regular (above) and large size (below),



Ninja Tag with Carrier

High class Champagne, Cognac, Whiskey or the fascinating blends of great wines are high theft items. The more exclusive these products, the more attractive to shoplifters as well. These kind of products call for a better, more secure tagging solution than regular labels or hard tags.

The 4 Alarm Bottle Tag.

A sensor detects tampering or unauthorized removing. Removing without alarm is only possible when the tag receives a special infrared signal from the detacher. If the code is missing or faulty a tag alarm will be triggered immediately. The detacher's IR signal turns off the sensor and it can be released.

The Bottle tag is reusable. It is available in two sizes: A large one for champagne and the regular size for wine and spirits.

Product code:

Tag IR BT 58 BS AM for Wine and Spirit

Tag IR BT 58 BS-L AM for Champagne

Tag IR BT 8.2 BS RF for Wine and Spirit

Tag IR BT 8.2 BS-L RF for Champagne







Your Partner in Profit

## 3-Alarm Hardtags



Zero False Alarm\* 58 KHz Acoustomagnetic EAS

\*Our patented system algorithm avoid false alarms when walking through the system.



## What is WG's 3-Alarm technology?

For customers facing a high theft problem at trendy or expensive products, but also having the need of using regular super lock magnetic detachers WG has developed a special version of our self alarming tags. At any attempt to open or remove a tag and every manipulation or tampering of the tag, is recog-nized by the 3 Alarm tag which responds with immediate alarm.



3 Alarm Tags can be used together with existing super Lock detachers. No additional investment is necessary. No additional cash desk infrastructure needs to be installed.

3 Alarm Tags are available in **AM (58 KHz) and RF (8.2 MHz).**

Alarm 1: The alarm of the Wave 4-alarm tag is triggered when the tag enters the detection field of an EAS system. The tag alarm persists for a defined period, even if the thief tries to escape through the mall or out of the house.

Alarm 2: The EAS-system-alarm of is triggered by the Wave 4-alarm tag, as traditional labels do.

Alarm 3: The Wave tag immediately triggers an alarm if the label is damaged or when the steel lanyard is cut. So the thief is revealed immediately and on the spot.

## 3 Alarm Lanyard Tag



Lanyard Tag is a 3 alarm tag for securing a variety of products. Depending on the length of the loop it is used to secure exclusive jackets and coats, but also for bags, tools, technical products, sports equipment and more.

The integrated steel lanyard is coated and integrated in the electronic circuit of the label.

A sensor detects tampering or unauthorized opening.

Standard lengths of lanyards are

7 inches

10 inches

48 inches

Special sizes are available on request.

Size 52x38x26 mm

Product code:

Tag IRO Lyrd 58 BS-7 Acoustomagnet 7 Inch

Tag IRO Lyrd 58 BS-10Acoustomagnet 10 Inch

Tag IRO Lyrd 58 BS-48Acoustomagnet 48 Inch

Tag IRO Lyrd 8.2BS-7 Radiofrequency 7"

Tag IRO Lyrd 8.2BS-10 Radiofrequency 10"

Tag IRO Lyrd 8.2BS -48 Radiofrequency 48"



## Pebble 3 Alarm Tag



Pebble Tag is a 3 alarm tag to protect high fashion products. Like in conventional tags a smooth groove less polished pin is stitched through the garment and thus the tag is positioned.

A sensor detects tampering or unauthorized opening.

Size 59x59x21 mm

Article code:

Tag IRO Pebble 58 BS Acoustomagnetic

Tag IRO Pebble 8.2BS Radiofrequency





## Media Tag / Ninja Tag 3 Alarm Tags



Media Tag with Carrier on the battery,  
3 Alarm Lanyard tag on the drill.

These self alarming tags from the WG's 3-alarm series are used to protect demo equipment or products in packaging.

A sensor detects tampering or unauthorized removing.  
When the tag is in the field of a super lock magnetic detacher the alarm is disabled and the Tag Carrier can be released on a tear-off tab and can be disposed. .  
The tag is re-used, the carrier is a disposable product.

### Media Tag + Carrier

The semi-transparent Media Tag Carrier is self-adhesive and fixes the Media Tag on the surface of the product or packaging.

### Ninja Tag + Carrier

The self adhesive Ninja carrier remains hidden invisible under the tag. The difference is the form factor and footprint.

### Dimensions

Media Tag : 70x35x13 mm Carrier: 90x56x15 mm

Ninja Tag: 63x50x13 mm Carrier: 63x50x 1 mm

### Product Code:

Tag IRO Media 58 BS	Acoustomagnetic
Tag IRO Media 8.2 BS	Radiofrequency
Tag ACC-MTCR Tag	Media Tag Carrier
IRO Ninja 58 BS	Acoustomagnetic
Tag IRO Ninja 8.2 BS	Radiofrequent
Tag ACC-Ninja	Ninja Tag Carrier



Ninja Tag with Carrier



## Bottle Tag 3-Alarm tags



Bottle tag in regular (above) and large size (below)

High class Champaign, Cognac, Whiskey or the fascinating blends of great wines are high theft items. The more exclusive these products, the more attractive to shoplifters as well. These kind of products call for a better, more secure tagging solution than regular labels or hard tags.

The 3 Alarm Bottle Tag.

A sensor detects tampering or unauthorized removing. If the tag is tampered or if the shoplifter manages to slip the tag of the bottle, the tag-alarm will be triggered immediately. 3 Alarm Bottle tag can be used with a super Lock detacher.

The Bottle tag is reusable.

It is available in two sizes: A large one for champaign and the regular size for wine and spirits.

Product Code:

Tag IR/O BT 58 BS

Tag IR/O BT 58 BS-L

AM for Wine and Spirits

AM for Champaign

Tag IR/O BT 8.2 BS

Tag IR/O BT 8.2 BS-L

RF for Wine and Spirits

RF for Champaign



Ninja Tag with Carrier





Your Partner in Profit

## Pencil Tag Collection



Zero False Alarm\* 58 KHz Acoustomagnetic EAS

\*Our patented system algorithm avoids false alarms when walking through the system.

## Pencil Tag



Our standard acoustomagnetic Pencil hard tag for large passage widths, with magnetic super-Lock locking mechanism for improved security.

The tag is smaller and lighter than most hard tags on the market but due to its optimized ferrite technology it offers extended exit widths.

Compared to resonator tags and labels the possible exit width is about 20% larger. Used on the same exit width, this gives a log of reserve. Even in environments with much noise.

Acoustomagnetic component: Precisely tuned to 58 kHz ferrite  
Compatible with all SuperLock detachers.

Length: 1.9"  
Weight: 9 g

Standard colors: white, black or gray

Art. Codes:  
TAGPEN58-GS = grey  
TAGPEN58-BS = black  
TAGPEN58-WS = white

This tag is also available in RF 8.2 MHz  
TAGPEN8.2-GS = grey  
TAGPEN8.2-BS = black  
TAGPEN8.2-WS = white

Can be used with "garment friendly" polished smooth pins or for maximum protection and even higher security with grooved pins.

Pins in boxes a'1000 pcs.

PIN F = Pin Flat Smooth  
PIN-F-G = Pin Flat Grooved  
PIN D = Dome Grooved Pin  
PIN-D-G = Pin Dome Grooved  
P01 / 19S For thicker materials i.e. shoes, Leather etc.





## Super Pencil Tag



Acoustomagnetic hardtag for largest passage widths, with magnetic SuperLock locking mechanism for improved security.

The tag uses our largest and strongest ferrite rod and thus reaches Exit width of 3-5 m between antennas.

Compared to resonator tags and labels the possible exit width is about 50% larger. Super pencil is an excellent choice for the use with floor systems. Detection height reaches levels like a normal vertical antenna.

Acoustomagnetic component: Precisely tuned to 58 kHz ferrite  
Compatible with all SuperLock detachers.

Length: 2.3"  
Weight: 14 g

Standard colors: white, black or gray

Product Codes:

TAG-PENS 58-GS = grey  
TAG-PENS 58-BS = black  
TAG-PENS 58-WS = white

This tag is also available in RF 8.2 MHz  
TAG-PENS 8.2-GS = grey  
TAG-PENS 8.2-BS = black  
TAG-PENS 8.2-WS = white

Can be used with "garment friendly" polished smooth pins or for maximum protection and even higher security with grooved pins.

Pins in boxes a'1000 pcs.

PIN F = Pin Flat Smooth  
PIN-F-G = Pin Flat Grooved  
PIN D = Dome Grooved Pin  
PIN-D-G = Pin Dome Grooved (grooved)  
P01 / 19S = Pin Flat 19mm for thicker materials, i.e. shoes, Leather etc.





## Micro Pencil Tag



Our smallest acoustomagnetic Pencil hard tag for regular passage widths. Magnetic superLock locking mechanism for improved security. The tag is one of the smallest in the market but due to its optimized ferrite technology it offers same exit width like the much larger resonator tags at about half the size of its competitors.

Acoustomagnetic component:  
Precisely tuned to 58 kHz ferrite

Compatible with all SuperLock detachers.

Length: 41.9 mm  
Weight: 8 g

Standard colors: white, black or gray

Art. Codes:  
TAG-MPEN 58-GS = grey  
TAG-MPEN 58-BS = black  
TAG-MPEN 58-WS = white

This tag is also available in RF 8.2 MHz  
TAG-MPEN 8.2-GS = grey  
TAG-MPEN 8.2-BS = black  
TAG-MPEN 8.2-WS = white

Can be used with "garment friendly" polished smooth pins or for maximum protection and even higher security with grooved pins.

Pins in boxes a'1000 pcs.

PIN F	= Pin Flat Smooth
PIN-F-G	= Pin Flat Grooved
PIN D	= Dome Grooved Pin
PIN-D-G	= Pin Dome Grooved (grooved)
P01 / 19S	= Pin Flat 19mm for thicker materials i.e. shoes, Leather etc



## Shell Tag & Shell Ink Tag



Acoustomagnetic hard tag for large exits widths in special, tamper resistant shell tag technology with SuperLock security lock. Very safe against manipulation by shoplifters. At the same time it treats the garment with greatest care because the larger pin surface distributes the weight to a larger space. That avoid an extension or wear out of the stitched hole through the fabric. Also the needle is inaccessible for shoplifters because of the larger diameter of the tag pin.

Shell tag comes complete with tag and smooth, polished pin.

### Shell ink

are versions of the Shell tag with three additional ink cartridges' hidden inside the tag. Only at a serious attempt to tamper the tag these cartridges break and release the ink to damage the merchandise and color the shoplifter.

Professionals know that these tags are secure and make it impossible to use or sell the stolen merchandise. Therefore they avoid them and once they became colored, they will not "revisit" the store.

Acoustomagnetic component: Precisely tuned to 58 kHz ferrite

dimension: 54x54x22 mm

Standard colors: black or grey Ink colors:

Red, Yellow, Blue

Art. Codes:

TAG SHELL 58 BS	= black
TAG SHELL 58 GS	= grey
TAG SHELL INK 58 BS	= black + ink
TAG SHELL INK 58 GS	= grey + ink

This tag is also available in radio frequency (8.2 MHz )

TAG SHELL 8.2 BS	= black RF
TAG SHELL 8.2 GS	= grey RF
TAG SHELL 66 BS	= black RF 66KHz
TAG SHELL INK 8.2 BS	= black + ink RF
TAG SHELL INK 8.2 GS	= grey + ink RF



## Micro Shell / Micro Shell Ink Tag



**Small** acoustomagnetic hard tag for medium and large passage widths in special, tamper-resistant shell tag technology with SuperLock security lock. Very safe against manipulation by shoplifters. At the same time it treats the garment with greatest care because the larger pin surface distributes the weight to a larger space. That avoid an extension or wear out of the stitched hole through the fabric. Also the needle is inaccessible for shoplifters because of the larger diameter of the tag pin.

Shell tag comes complete with tag and smooth, polished pin.

### Micro Shell Ink

are versions of the Micro Shell Tag with an additional ink cartridge visible on the tag.

Only at a serious attempt to tamper the tag the cartridge will break and release the ink to damage the merchandise and color the shoplifter.

Professionals know that these tags are secure and make it impossible to use or sell the stolen merchandise. Therefore they avoid them and once they became colored, they will not "revisit" the store.

Acoustomagnetic component:  
Precisely tuned to 58 kHz ferrite

dimension: 45x45x22 mm

Standard colors: black  
Ink color: red

### Product Codes:

TAG MSHELL58- BS = black

TAG MSHELL58- INK BS = black with Ink

This tag is also available in radio frequency (8.2 MHz)

TAG MSHELL8.2- BS = black

TAG MSHELL8.2- INK BS = black with Ink



## Ink-C Benefit Denial Tag



Ink tag has two colored ink cartridges in a transparent housing. No electronic function. It may be attached to any hard tag or attached to a garment with a magnetic clutch in place of the needle. Only at a serious attempt to tamper the tag the cartridge will break and release the ink to damage the merchandise and color the shoplifter.

Professionals know that these tags are secure and make it impossible to use or sell the stolen merchandise, therefore they avoid them.

Size: 40x40x13mm

Product Codes:

Ink tag: TAG INKK C  
Clutch: Clutch CY



Clutch CY



## Lanyard Tag



Stylish acoustomagnetic hard tag with integrated rubber coated steel lanyard for protecting a large variety of goods such as bags, suitcases, back-packs, tools, camcorders, sport gear and other hard good items.

Magnetic Super Lock mechanism.

Easy handling, fast and user friendly, sleek design, black.

Acoustomagnetic component:  
Precisely tuned to 58 kHz ferrite

Dimension: 52x38x26 mm

Lanyard length:

3.5 inches

7.0 inch

10 inches

Product Codes:

TAG LANYARD 58BS 3.5 (3.5 inch loop)

TAG LANYARD 58BS 7 (with 7 inch loop) TAG

LANYARD 58BS 10 (with 10 inch loop)

This tag is also available in RF 8.2 MHz.

TAG LANYARD 8.2BS 3.5 (3.5 inch loop)

TAG LANYARD 8.2BS 7 (with 7 inch loop)

TAG LANYARD 8.2BS 10 (with 10 inch loop)



## Lanyard



Accessory to regular hard tags for protecting a large variety of goods such as bags, suitcases, backpacks, tools, camcorders, sports gear and other hard good items.

Material steel rope, Braided rubber.

Compatible with all security tags with magnetic and mechanical shutter.

Length: 175mm

Product Code:  
AR3P





## WG Lock Tag



Acoustomagnetic hard magnetic fuse with SuperLock closure mechanism (can be removed from the secured goods exclusively with SuperLock openers).

Closure with integrated stainless steel strap.  
Acoustomagnetic component:

Ferrite 58 kHz Micro

Compatible with all SuperLock openers at Checkout particularly fast and user friendly, sleek design.

Weight: 19 g

Standard color: black or White

Product Code: TAGLOCK58-BS



## 58 KHz AM Labels



Acoustomagnetic adhesive label,  
Brand: Sensormatic

Acoustomagnetic component: Dualresonator 58  
kHz

Size: 45 x 10 x 1.7 mm Weight: about 1 grams

Delivery in cartons of 5,000 pcs.

Standard colors: White, Black, Dummy  
Barcode printed.

Product Codes:

ZLDRS1 = White

ZLDRS5 = Black

ZLDRS2 = Barcode Printing





## Seal Tag stops "Wardrobing"!



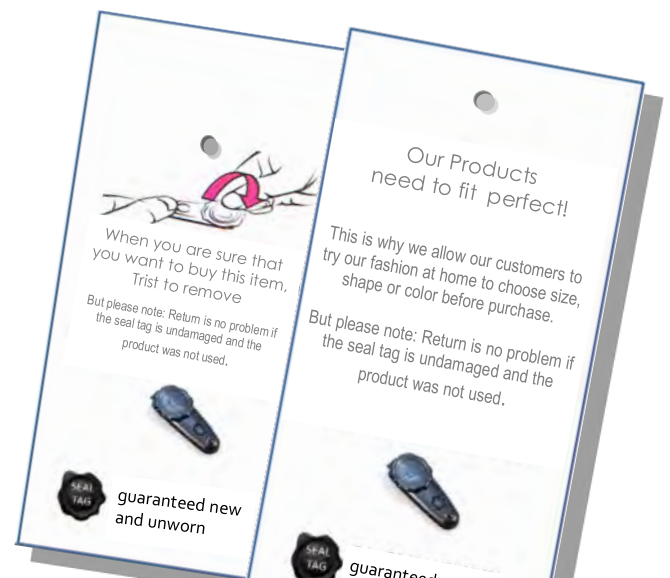
Wardrobing" is a new fraud phenomenon which concerns online stores and retail stores simultaneously. Online orders or in store purchased items are taken home to try on or even worn at an evening party and then returned for a full refund. The Seal Tag or b Tag solves this problem. The disposable Seal tag is attached like a conventional security tag on a garment with a clearly recognizable info card added. It informs the customer that if you return the item with a broken tag, the item is not accepted as a return. If the customer has made a decision to buy the item, he or she can remove the tag themselves without needing a tool, this is done by lifting the seal ring.

Addition of the Seal Tag to your company's return policy is guaranteed to significantly reduce fraudulent returns to your business.

Seal-Tag was developed together with bloomingdales



Dimensions: 2.4 x 1.1 x 0.4 inches



## Bandit IR Smart Tag



The Bandit IR Smart Tag is specifically designed for advanced security of boxed merchandise and is easy for your employees to use. It boasts faster application and removal by an authorized detacher than any other EAS box tag, and can be equipped with up to four alarm levels to safeguard against theft or tampering.

Four Security Levels:

Features:

Bandit Tag easily attaches to boxed merchandise

With a push of a button the tag is armed

The plunger on the bottom of the tag detects when the tag is resting against the surface

Boxes can be arranged in an aesthetically-pleasing manner due to Bandits unobtrusive design

Disarmed at point-of-sale is fast and easy with a WG IR detacher

The Bandit IR Smart Tag is our exclusive patented series IR Smart Tags. Other companies offer multi alarm tags, but WG is the only company in the industry to break the glass ceiling of three alarms and venture into 4 & 5-alarm territory. By using infrared binary coded technology, we have successfully added an undefeatable layer of security to these tags.

Composed of durable Polycarbonate plastic, each tag houses a complex ferrite and smart circuitry.

The Bandit IR Smart Tag is without a doubt the most advanced smart tag in the industry. The Bandit IR

Smart Tag functions with any 58kHz AM or 8.2Mhz EAS and RFID system.



Alarms when tampered with or illicitly removed  
Alarms when entering an EAS detection field Triggers the alarm of any 58kHz EAS System  
Prevents removal without a patented WG IR detacher  
Available with Active RFID chip set

To arm press the on button, place the Bandit tag on the box the plunger engages then arms. The Bandit tag disarms quickly with a WG IR detacher!

Measurements:  
Width: 1.377 inches  
Length: 2.7 inches  
Thickness: 0.5" inches  
Band Length S 4 expands to 8 inches  
Band Length L 10 expands to 20 inches

Complete protection!

# Ninja Plus Smart Tag



The Ninja Plus Tag is specifically designed for advanced security of boxed merchandise and is easy for your employees to use. It boasts faster application and removal by an authorized detacher than any other EAS box tag, and can be equipped with up to four alarm levels to safeguard against theft or tampering.

## Four Security Levels:

### Features:

Tag easily inserts into plastic or foam backing

No cables required, making the Ninja Plus fast and easy to apply

The plunger on the bottom of the tag detects when the tag is resting against the surface

Boxes can be arranged in an aesthetically-pleasing manner due to Ninja Plus sleek and unobtrusive design

Disarmed and detached at point-of-sale is fast and easy

The Ninja Plus Smart Tag is our exclusive patented series IR or none IR Smart Tags. Other companies offer multi alarm tags, but WG is the only company in the industry to break the glass ceiling of three alarms and venture into 4 & 5-alarm territory. By using infrared binary coded technology, we have successfully added an undefeatable layer of security to these tags.

Composed of durable Polycarbonate plastic, each tag houses a complex ferrite and smart circuitry.

The Ninja Plus Smart Tag is without a doubt the most advanced smart tag in the industry.

The Ninja Plus Smart Tag functions with any 58kHz AM or 8.2Mhz EAS and RFID system.



Complete protection, no cables

Alarms when tampered with or illicitly removed  
Alarms when entering an EAS detection field  
Triggers the alarm of any 58kHz EAS System  
Prevents removal without a patented WG IR detacher

Available with Active RFID chip set

Ninja Plus Arms with the flip of a switch, disarms quickly with proper detacher.

### Measurements:

Width: 1.786 inches

Length: 2.1 inches

Thickness: 0.5 inches

Tag Tray adds 0.065 inches in height

Foam Base adds 0.287 inches in height