



**WG Global**  
Improve your bottom line

**Sky Guard 3**



**WG Global**

Zero False Alarm\* 58 KHz Acoustomagnetic EAS

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

## Sky Guard 3

Invisible  
Is visibly better!

The Invisible 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 3 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 Turbo antennas allow to build a system with superior detection. Great aesthetic and nothing interferes with stunning store architecture.

Consequent tagging with 4-Alarm or traditional WG security tags is important to deter shoplifters right at the product. Signage at visible places i.e. in changing rooms supports.



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### Sky Guard 3 - Installationsvarianten:

Sky Guard may be installed on existing door frames or integrated in new portals.



### Sky Guard 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 designed 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 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.

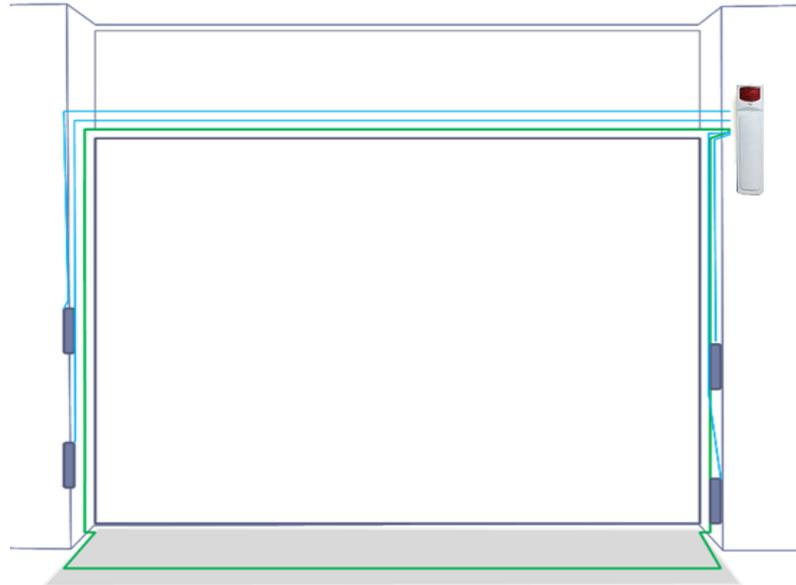
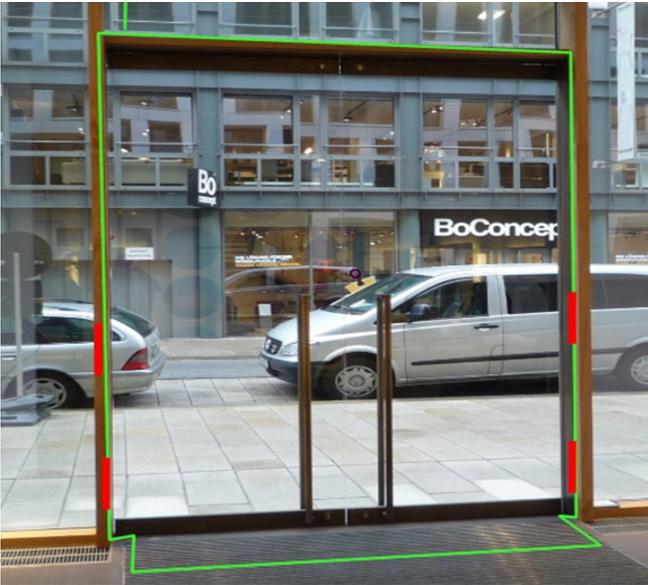
The system is thus completely invisible and protected. The color is adjusted to those of your portal.

Special advantage: No antennas hinder the customer flow. More selling space because of no space required for EAS-antennas. Sky Guard for automatic doors can also be used in situations where space and best protection against damages from shopping-cart's is required.

### Sky Guard 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 profile i.e. from Aluminum or stainless steel with stylish glass or plastic covers for the receiving antennas.

### Sky Guard 3 - 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 30 mm plastic conduit. To achieve a little earlier detection the conduit is run about 40-50 cm inside the store.

Two turbo-receiver antennas are mounted on the right and left of the door at a height of about 20-30 and 100-120 cm (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 8 cm - 10 cm 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 plug in power supply.

### Preparations:

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

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

Sky Guard 3 - applications:



Sky Guard 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:**

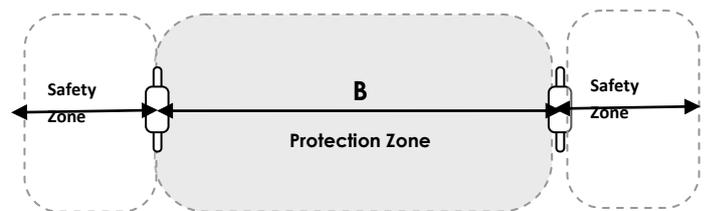
Leading companies in the fashion industry, particularly in the luxury segment rely on the invisible safety of Sky Guard 3.

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 Food-market. More than 1000 Sky Guard systems have since been installed in the food retail sector and provide high security without interfering antennas.

**Sky Guard 3 Systemfield-graphic:**



Alarmzone in cm	
Type of tag	B
LabelType MUS-DR	180
Hardtag Super Tag	180
Micro Shell, Micro Pencil, Lanyard Tag	250
Shell, Mid Pencil	350
Super Pencil	500

**Remark:**

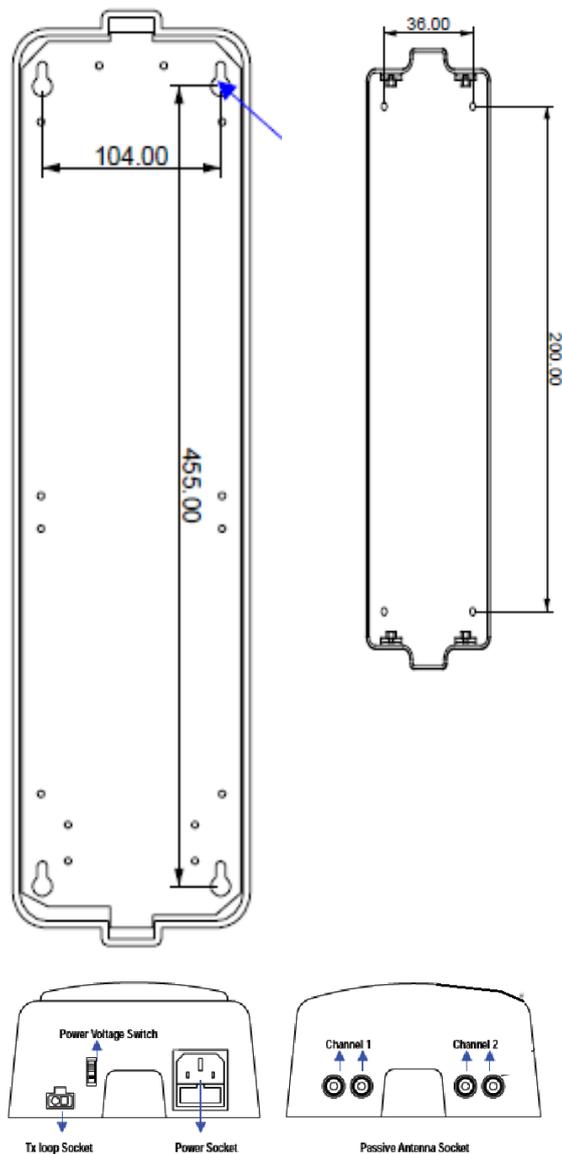
For physically reasons a reduced detection performance can happen in the middle between transceiver antennas.

We recommend the use of powerful WG Tags built to work perfect with this system. 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 return-

### Sky Guard 3 - Specifications:



### Power supply and environment:

System power supply (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 .

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. 30 or 32mm) with inserted pull wire, btw. antenna and power supply as indicated in the project outline.

Knowing the position of floor heating's 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 1 m

Working frequency range: 58 kHz

Power supply: 230 V / AC - 24 V / AC

Power consumption: 80 W

Ambient temperature: 0 ° - 30 ° C

### Produkt Codes:

WG-SKG58-3 Sky Guard 3 System

### Sky Guard 3 - 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 hardwearing they can be shed in the concrete.

Since the ferrite receiving antennas may need to be re-configured in a later service an accessibility of the tank must be planned.

#### Technical data and dimensions:

Floor box: 290x290x60 mm  
Weight: 3.1 Kg

#### Produkt Codes:

WG BAT      Sky Guard Floortank (Set for 2 Antennas)

## Why acoustomagnetic 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 given physical conditions, AM still performs best.

If labels are posted on aluminum foil or cans or when packaging is made of glossy cartons 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 systems operate false-alarm free - because our special system algorithm eliminates false alarms from objects carried through the system. When a customer is in the gate and the system alarms, you can bet: Maybe you forgot to remove the tag or the customer "forgot" to pay. Anyway you will find a tag.

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

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

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

## All this counts.

## About WG Global:



Each market segment, and each region has its specific problem areas and therefore require specific products.

We are constantly learning from practice and apply this know-how incorporated directly in the development of new solutions. This is part of our corporate philosophy and works best in an owner-managed company with direct access to resources - such as WG.

Creating first class solutions and functionality at an attractive price is our goal. Customer service includes product availability. In in our two warehouse buildings in Surheim we have sufficient storage capacity for 1200 pallets.

Many renowned retailers in Germany and Austria are already working with WG-Global's direct operations. To accompany their expansion WG has internationally experienced project managers.

WG Products are also available through our Sales and Service partners in over 60 countries creating our Global Service Partner Network.

WG as a medium-sized owner-managed company usually responds far more flexibly to our customers' requirements than others can. Our style is rather hands on than playing Power point.

**Check it out** and call WG or our local partner.



## Disclaimer

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