



**Lane Guard**



**WG Global**

Zero False Alarm\* 58 KHz Acoustomagnetic EAS

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

## 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 protector 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.



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## BTL Lane Guard



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 cashier 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 as mounting bracket and protector for check stand or



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

Of course, Lane Guard can be built in dual or triple system configurations for larger exits. Often used at entrance or for handicapped cash desks needing wider openings for wheel-chairs.

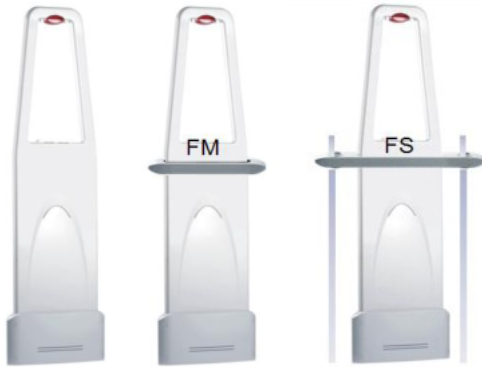
The functions of the new WG-goods system platform, such as jamming detection or recognition assistant for operator errors are standard on board.



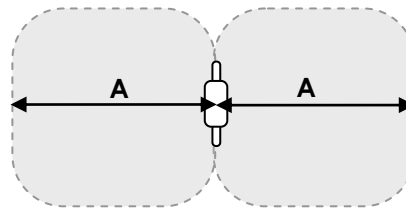
**Lane Guard - Specifications:**

**Specifications.:**

Working frequency range: 58 kHz  
 Power supply: 230 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



Lane Guard      with FM Kit.      with FS Kit.  
 Wall or cashdesk      Wanzl-guidance



Alarmzone in cm	
Tag Type	A
Label Type MUS-DR	90
Hardtag Super Tag	90
Micro Shell, Micro Pencil, Lanyard Tag	90
Shell, Mid Pencil	130
Super Pencil	150

**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 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

**Configured Sets:**

- K BTL LG-1
- K BTL LG-2

- (Antenna, Power supply and cable)
- 1 Antenna-System
- 2 Antenna-System

**Installations-description**  
For WG Lane Guard.



**Preparations:**

230 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 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 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 manager's 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.

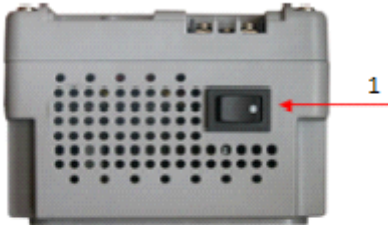
**Preparations:**

230V (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.

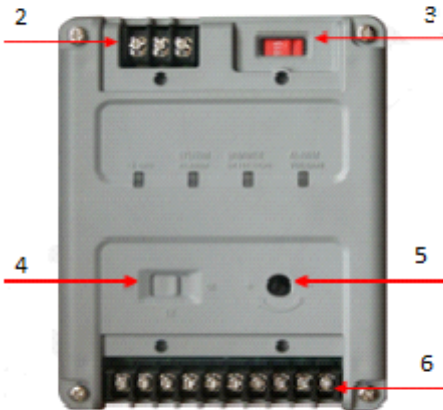
PG 30 Plastic conduits (recommended. 30 or 32mm)with inserted pull wire, btw. antenna and power supply as indicated in the project outline.

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 230 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.

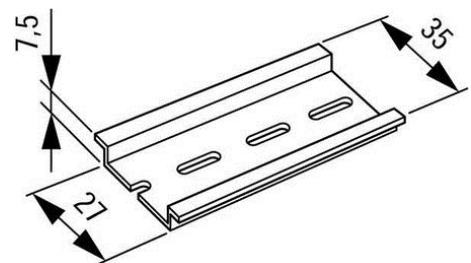
**Dimensions:**

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

**Product Codes:**

WG SPS

Smart Power Supply



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

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

## 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.





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