

**SEDECT®**

SWISS  
SECURITY  
TECHNOLOGIES

# SEEFLOW® SMD

Ultra-thin sensor for early detection of metal  
in shoes at security checkpoints



SEDECT.AERO



# SEDECT® SA

Founded in 2015, SEDECT develops, manufactures and markets innovative products for airport security systems which facilitate passenger flow.

SEDECT equipment is designed and developed by talented micro-technology engineers at its base by Lake Geneva in Switzerland.

The team is supplemented by innovative designers who integrate our high-tech solutions effectively into existing facilities, while taking into account design and internal structure restrictions.

Based on our several years of experience in industry-wide projects, we are capable of developing customised products adapted to the needs of our customers and provide our expertise from the early stages of new projects.

# SECURITY CHECKPOINTS

For some time now, security controls have been a mandatory step in travelling. Today's persistent and growing threats require new, constantly updated rules for ensuring the protection and safety of passengers.

New technologies are leading to the development of new equipment in complying with those rules.

It is also essential that travellers are provided with maximum comfort during these security checks as they are often the source of a lot of stress.

The traveller will be more at ease if such controls are as inconspicuous and quick as possible.

Our products have been designed to meet security standards as well as the expectations of passengers.



# SEEFLOW®

## PRODUCT RANGE

Our SEEFLOW products are designed to improve passenger traffic at security checkpoints by increasing the passenger's readiness to proceed.

SEEFLOW products detect metal in the traveller's shoes and can also be adapted to detect metal elsewhere on the person.

Passengers are requested to remove their shoes or for example empty their pockets if the sensors detect an excessive amount of metal.

The goal is that only shoes containing a sufficient amount of metal, or metal objects (money, mobile phone, etc.), which would set off the security metal detectors, will require removal.

Our unique technology allows sensors to be integrated into ultra-thin components that can have multiple settings.



# SEEFLOW® SMD

The SEEFLOW SMD range is designed to inconspicuously detect metal when the passenger steps onto its mat. Its form, placement and incorporation into the existing system allow passenger flow and convenience to be optimised.

The SEEFLOW SMD system has been designed to integrate easily into the security controls with minimal cluttering and without any significant works or modifications to the existing set up.

It is usually installed in front of the roller conveyor belts on which the traveller places his/her personal belongings and gets ready to pass through the checkpoint. In this way, the early detection procedure can be carried out at the same time as this preparation.

The traveller steps onto the SEEFLOW SMD detector and, if necessary, is then asked by security to remove his/her shoes and place them on the conveyor belt.

The SEEFLOW SMD performs a precise measurement of the metal items present in the shoes which could set off the WTMD alarm. A visible or audible signal to the passenger or security personnel gives the result of the measurement.



indicates the passenger is wearing shoes containing metal. Security then asks the passenger to place his/her feet on the marks for a more precise measurement.



indicates the passenger can keep the shoes on and continue through the Walk Through Metal Detector.



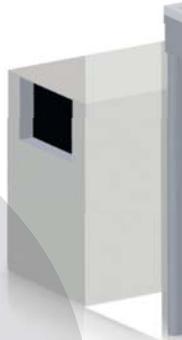
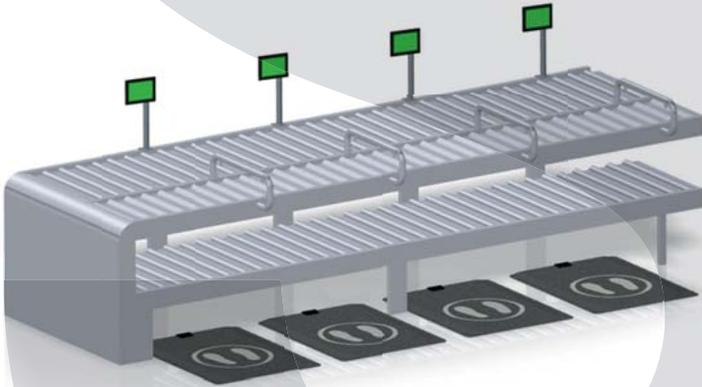
indicates the passenger would set off the security alarm and will have to remove his/her shoes.



The SEEFLOW SMD system is 100 cm x 80 cm and 15 mm thick and comprises the following components:

- Ultra-thin detector and its plastic protective covering;
- Rubber coating for extreme wear and tear conditions, with markings for ideal feet placement;
- Control box connected to the above components;
- Display screen for measurement result or other illuminated indicators;
- Various power supply cables and connections to ancillary systems.

# OBJECTIVES AND ADVANTAGES OF OUR SOLUTIONS





SEEFLOW products assist in increasing passenger flow through the security checkpoints. In fact, our solutions can drastically reduce the number of repeated walk-throughs caused by shoe alarms at the checkpoint and the congestion produced.

Airports using the SEEFLOW SMD systems have seen a reduction in conflicts between passengers and security personnel (the removal of shoes or keeping them on is based on the SEEFLOW SMD and no longer on an arbitrary, albeit experience-based, decision of security personnel) and the drop in body searches by security, which reduces the arduous nature of the security personnel's work.

Passengers also benefit from greater comfort thanks to the reduced stress of repeated walk-throughs caused by alarms, keeping their personal belongings together (shoes are no longer placed among the effects of other passengers), personal belongings no longer leaving the owner's sight after passing through the x-ray, and, in the end, they have more time for the airport's shopping area.



## Geneva airport testimonials

### Ruben Jimenez, Director of the Security Department

*"Consider a passenger who will cause the shoe alarm to go off at the Walk Through Metal Detectors. He's spent a few minutes getting prepared and when he thinks he is ready to go through the WTMD and finished with all security constraints, security stops him due to the shoe alarm! The passenger's frustration is then at its peak and I can understand it.*

*Besides, it's a huge loss of time! The passenger has to go 3 times through the WTMD; on average this is a loss of 10 to 20 seconds per passenger. This might appear negligible but when it happens more than 200 times/hour..., you can imagine the gain the SMD brings!"*

### Adrien Semoroz, Technical Manager, Security Department

*"We measured the number of shoe alarms sounding since the Seeflow SMD was installed at the end of 2016 and compared the results to the same period in the previous year. We observed a drop of 70% in shoe alarms. This figure may not be easy to appreciate. Any idea what this represents? ... The number of passengers that could fill 7.2 A320 planes every day!"*

### Jacques Morgenegg, Passengers and Terminals Project Manager

*"Thanks to the Seeflow SMD we could not only drastically reduce the number of shoe alarms sounding at the WTMD but also reach a much lower level of combined alarms at the WTMD. It's a 32% reduction! The passengers also greatly appreciate having all their belongings together when they are done with the security checks. Security agents also don't have any more conflicts with passengers when asking them to remove their shoes."*

# GENEVA AIRPORT

Due, in part, to the beauty of the Geneva region, its international airport has witnessed a constant growth in passenger numbers over several years. The airport welcomed 16 million passengers in 2016.

Estimates foresee an even faster growth in the coming years. However, as the area available for this expansion is limited, Geneva Airport has constantly searched for innovative solutions that can help manage this fast growth.

In 2013, an idea emerged for the early detection of shoes that would set off the security checkpoint alarms and accordingly improve passenger flow. To take on this challenge, Geneva Airport commissioned SEDECT.

Since the end of 2016, all security checkpoints at Geneva Airport have been equipped with our SEEFLOW SMD systems.

Thanks to SEEFLOW SMD, Geneva Airport has been able to demonstrate a significant increase in passenger flow along with a large reduction in congestion caused by repeated walk-throughs for shoe alarms at the WTMDs.

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