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## Electronic Artwork Protection with the EBS System

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Protecting art against unauthorized access – from unwanted contact against theft

# EBS – Electronic Artwork Security Systems

## Electronic detectors securing artwork

Many requests voiced by architects, designers, gallery and museum managers for a safer and more esthetic solution have led us to develop our new, invisible detection and alarm systems.

The EBS detector system has been designed for a large variety of applications where paintings, sculptures and other pieces of art need to be monitored reliably. Monitoring of sculptures or other pieces of art on pedestals, columns or platforms can be protected in a very efficient and yet simple manner. The monitored objects can hang, stand or lie freely. Protective glass, which might limit the view of the items or diminish their effect on the viewer, are no longer necessary.

The system can be installed without having to interfere with the artwork in any way. A very flat sensor is installed in places which cannot be seen by the viewer, for instance, behind a partition wall or underneath a showcase. The electrical field penetrates all non-conductive material such as wood or plastic. Conductive or slightly conductive pieces of art, such as sculptures made of stone material or bronze, generate an electrical field fully surrounding the object.

## Properties

- Capacitive detector with novel, patented signal analysis
- Sensor plate which can be mounted to be invisible to the viewer
- The size of the homogeneous electrical field can be adjusted as needed
- Flat sensors of a thickness of only 3 mm for an area size of up to 20 m<sup>2</sup>
- High interference immunity thanks to digital filter technology (e.g. against mobile radio waves);
- insensitive to environmental factors
- Different versions available
- VdS certification pending



Kunst- und Ausstellungshalle der Bundesrepublik Deutschland, Bonn (secured area ca. 20 m<sup>2</sup>)

**EBS-Wire** has been designed to enable direct connection to any type of central burglary alarm station. A variety of settings allow the system to be adjusted to any type of environment.

**EBS-Fu** is used in conjunction with various radio transmitters, especially in those cases where cabling is not possible or to be avoided.

**EBS-So** is a special design version which can be incorporated in pedestals.



# EBS – Applications

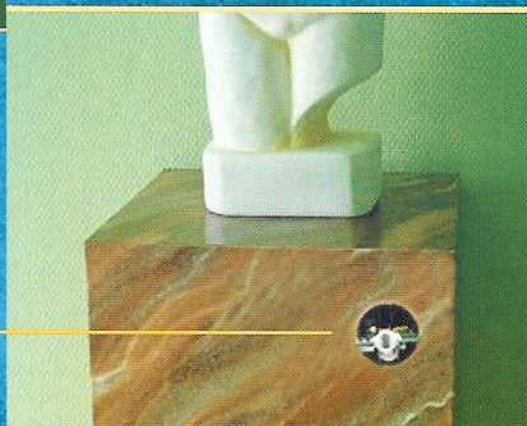


Version EBS-So has been designed, in particular, for securing sculptures. The sensor plate is located inside the pedestal, directly beneath the area where the artwork is placed.

In the case of sculptures made of metal, marble, granite or similar material (metal oxide), the electrical field matches the size and shape of the sculpture and generates a homogeneous security area.

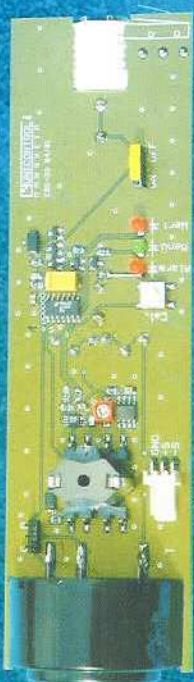
Non-conductive objects (e.g. wooden figures) can easily be prepared to ensure proper functioning of the EBS.

The EBS-So electronic unit can be mounted in pedestals without any problems and is invisible to the viewer.



As soon as the sculpture is approached, an acoustic signal is issued.

The label plate can be removed for parameter setting. For this purpose, the electronics unit is pulled out of its guiding tube.



# Technical data

## Automatic setting of the sensitivity level (self-learning)

### EBS-Wire

- Easy connection to any central burglary alarm station by means of isolated MOS relays
- Optional pre-alarm
- Isolated outputs (e.g. for activating a surveillance camera)
- Simple resetting and acknowledgement features
- Internal signal buzzer
- Large variety of settings
- High interference immunity
- Supply voltage 9...28 V DC (<10 mA)
- Plastic casing (L x W x H) 137 x 94 x 26 mm



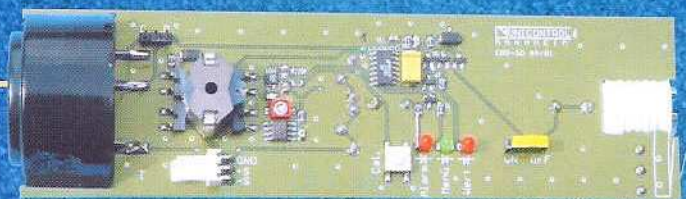
### EBS-Fu

- Version to be combined with various radio transmitters
- Voltage supply from a 3.6 V lithium battery (operating time up to 2 years)
- Low power consumption
- Casing, (L x W x H) 120 x 49 x 21 mm



### EBS-So

- Special design version for easy mounting in pedestals
- Technical data same as for EBS-Fu
- Quick access for servicing
- Installation in a plastic tube,  $\varnothing$  50 mm
- Printed-circuit board, 155 x 46 mm



Our company is certified to DIN EN ISO 9001.



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Technical specifics are subject to change.