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# Acoustic Glassbreak Detector Standard

# Features for Optimizing False Alarm Reduction and Detection

Sponsor Security Industry Association

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### ACKNOWLEDGEMENTS

This standard was developed by the SIA Glassbreak Standards Subcommittee. The voting members of the Subcommittee at the date the standard was approved are listed below.

SIA gratefully acknowledges the efforts of the many volunteers from the security industry that helped the Subcommittee to develop this standard.

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# Acoustic Glassbreak Detector Standard

# **Features for Optimizing False Alarm Reduction and Detection**

### 1. SCOPE

This standard details recommended design features to reduce the incidence of false alarms with acoustic glassbreak sensors, or any sensor which uses acoustic glassbreak sensing used in security systems. In addition, specific recommendations are made regarding content in sensor installation instructions and application instructions, also for the purpose of reducing false alarms.

Recommendations on design features, installation instructions, and application instructions for maximizing glass break detection are also included. Since the technology of acoustic glass break detection can involve a trade-off between detection and false alarm immunity, a focus solely on false alarm immunity will compromise glass break detection. Detection therefore has equal emphasis in this standard.

This standard recognizes that the majority of false alarms and missed detections for glassbreak sensors are due to application and installation errors, and that widespread instruction on application and installation will have the greatest impact toward minimizing false alarms while maximizing glass break detection. This standard is intended for use by manufacturers in the design and sale of acoustic glassbreak sensors. It is also intended for reference by all affected parties, including security system installers, salespeople, specifiers, and users; central station owners and operators; and by local authorities.

This standard is voluntary and self enforcing.

## 2. REFERENCE DOCUMENTS

## 2.1 Related Areas

This standard is intended to allow compliance with the following standard from Underwriters Laboratories, Inc.:

UL 639, Intrusion-Detection Units

The provisions of UL 639 related to acoustic glassbreak detectors are fully invoked in this standard.

## 2.2 Precedence

This standard generally imposes a greater burden on manufacturers than the UL 639 standard. Where UL standards are met within