

GLASS BREAK SENSOR

GS-2000E



Glass break sensor GS-2000E is an ultrasonic sensor designed to detect the sound of breaking glass such as plate glass windows, doors, showcases etc. Its slim and inconspicuous body allows the unit to be used in various places.

EASY OPERATION CHECK

The alarm LED and the environmental LED are available for easy operational and environmental check.

ALARM MEMORY FUNCTION

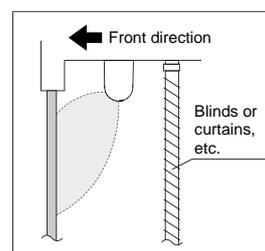
When the unit has been activated, the alarm LED (Red) will flash for 3 minutes, and remain lit for 47 minutes afterward. This makes identification of triggered devices easier when multiple units are used in the same location.

EASY INSTALLATION

The protection area is vertically 7m max. and horizontally 8m max. (Variable range : vertically 30° in front direction)

OTHER FEATURES

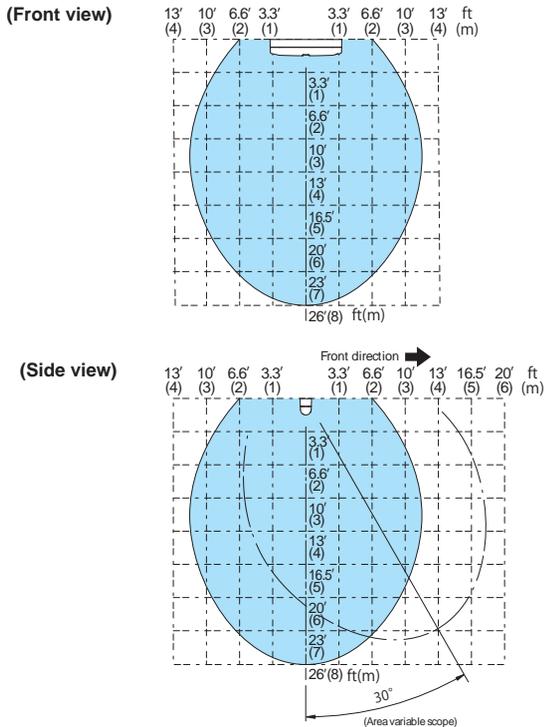
- *Sensitivity adjustment
- *Slim and compact design (height 45mm x depth 32mm)
- *Glass checker EG-2000 available (Optional)
- *Screw-less terminal block



Mount the sensor between the glass and the blind or curtain.

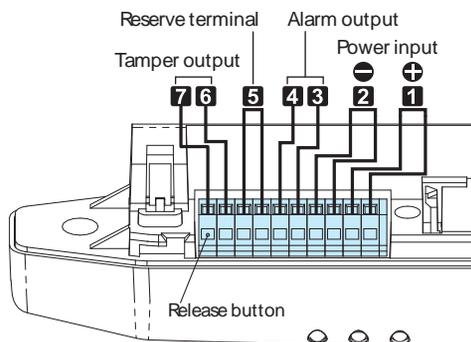
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Detection area



- The detection areas in the figure indicate the status when the sensitivity is set to "High" in the environment without any walls that reflect ultrasonic waves around the unit.
- Install the sensor, and adjust the detection area in order to cover the whole glass surface to be protected within the detection area.
- The size of glass surfaces to be protected should not exceed five square-meter.
- Confirm the position of the mounted sensor and glass surface to be protected, and determine the appropriate angle to set the area selector. (Refer to "6. Detection Area Adjustment")

Terminal configuration



■Maximum allowable wiring distance [between the sensor and power equipment]

When using single wires

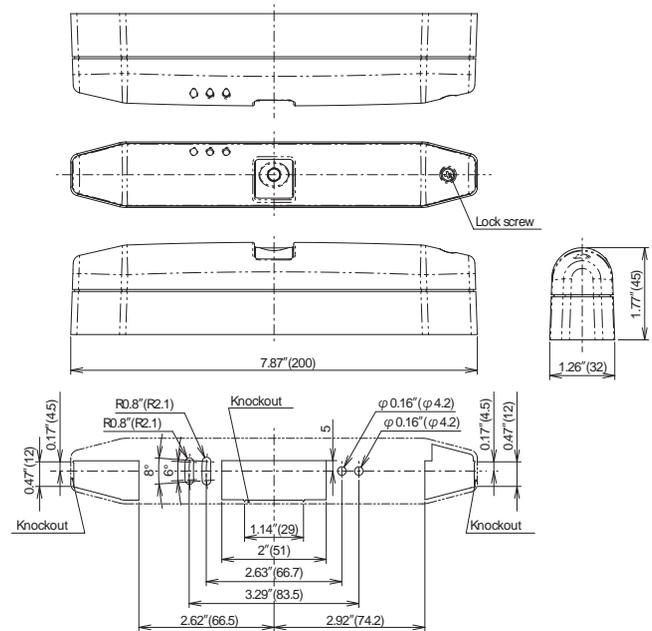
	(when DC 12V is supplied)	(when DC 24V is supplied)
φ 0.03" (φ 0.65mm)	Up to 3,000ft (900m)	Up to 15,000ft (4,600m)
φ 0.04" (φ 0.9 mm)	Up to 5,600ft (1,700m)	Up to 29,000ft (8,800m)
φ 0.05" (φ 1.2 mm)	Up to 10,000ft (3,100m)	Up to 52,000ft (15,700m)

*When connecting two or more units to the same cable, the maximum distance is the above value divided by the number of units.

*Signal wires can be connected in a distance of up to 3,300ft(1,000 m) when telephone wires of φ0.03"(φ0.65 mm) are used.

External dimensions

Unit : inch (mm)



Specifications

Product name	LASSBREAK SENSOR
Model number	GS-2000E
Detection method	Ultrasonic Detection
Operation area	Distance direction : 26' (8 m) Extension direction : 23' (7 m)
Area adjustment scope	Vertical direction : 30° (by 5° pitch) Horizontal direction : ±4° (by using base mounting hole)
Power supply voltage	DC9 V to 28 V (no polarity)
Consumption current	25mA or less
Alarm output	Contact method : Dry solid-state contact (N.O./N.C. selectable) Contact operation : One-shot (approximately 2 sec) Contact rating : DC 30 V (AC 24 V)/0.25 A (resistive load) (built-in contact protection resistance 3.3Ω)
Tamper output	Contact method : Dry contact (N.C.) Contact operation : Continuous output when the sensor unit is detached (until the sensor unit is mounted) Contact rating : DC 30 V/0.1 A (resistive load)
Alarm indicator	Red LED In check mode : Blinks (approx. every 2 sec) When the alarm is set o : Lights up (for approx. 2 sec) In memory operation : Auto resets after blinking for 3 min, and being lit up for 47 min When the alarm for abnormalities is set o : Lights up (continuously) (Available to set only the alarm and memory display to ON/OFF using the mode selector)
Environmental indicator	Orange LED When environmental error occurs : Lights up (in check mode) When checking the sensitivity : Lights up (in check mode)
Auxiliary functions	Check mode function, Noise reduction function, Self-diagnosis function, Tamper function
Ambient operating temperature	14°F to 122°F (-10°C to +50°C) (No condensation)
Installation place	Indoor : Ceiling and wall surfaces
Wiring connection	Terminals
Weight	Approx. 4.2oz(120g)
Appearance	Resin

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Please note:

This sensor is designed to detect intrusion and to initiate an alarm; it is not a burglary or a crime preventing device. TAKEX is not responsible for damage, injury or losses caused by accident, theft, Acts of God (including inductive surge by lightning), abuse, misuse, abnormal usage, faulty installation or improper maintenance.

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