

# MAX-GLASS

Glass break detector with Anti-masking.



## FEATURES

- Double frequency Flex & Break identification
- Detects glass breaking of all glass types: Plate, Laminated, Wired, Tempered etc.
- Very high noise immunity
- Microcontroller based with unique algorithm
- M.I.C. - Memory Image Comparison
- Memory Latched Input
- Omnidirectional Sensitivity: allows mounting on ceiling or walls
- Two LEDs: Red = Alarm  
Green = Reception
- Easy to install and adjust

1

## INTRODUCTION

**MAX-GLASS** is a delicate & sensitive ear design to detect glass breaking of actually all existing glass types in the market.

**MAX-GLASS** provides **MAXIMUM** reliability. It ignores any sound/noise but actual glass breaking, since it alerts only when a detected sound matches one of the variety glass breaking sound images recorded in its memory.

### ANTI-MASK

This Glass Break Detector contains a unique feature of **ANTI-MASK**, designed to alert when its sensor is blocked, so that its detection capabilities are diminished.

In the event of sensor blocking, the detector will alert by the following means:

- Prolonged **BIP**- through its built-in Buzzer.
- The Alarm Relay will open.
- Both, Green & Red LEDs will blink.

2

## INTSTALLATION

### SELECT LOCATION

- Choose a location in front of the protected glass area. (any wall other than the one with the protected glass).
- Make sure that the detector's field of view is not blocked by any object.
- Avoid installation in the following locations:
  - Areas with substantial air currents.
  - Areas with high audio noise or vibrations.
- Detector's detection range may be decreased in a place with acoustically absorbing material.

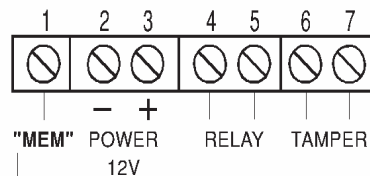
3

## MOUNTING

- Determine mounting position and cable routing.
- Hold the detector firmly in your palm while front cover facing you.
- Open the front cover by pressing the clip located on the mid-right side with a screwdriver, and pull it upward.
- **DO NOT remove the PCB from the detector rear cover !**
- Run the cable along the cable-duct located on the back side of the rear cover and insert it through its prepared hole.
- Mount the rear cover to the wall/corner as determined previously.
- Connect the wires to the Terminal block (according to the Terminal block diagram).
- Close the detector case.

4

## TERMINAL BLOCK WIRING



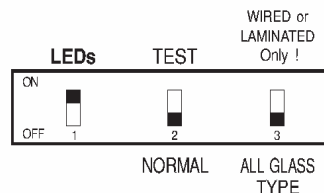
→ "MEM" terminal supposed to get indication from the alarm system control panel, whether it's Armed or Disarmed:  
**Armed = 0V**  
**Disarmed = 12V or Open.**  
 This terminal used for SET or RESET the "LATCHED MEMORY".

### "LATCHED MEMORY" means:

**If:** a "true alarm" occurred during the "armed" period,  
**then:**  
 When switching the alarm system from "Armed" to "Disarmed", the Red LED will be activated for 5 minutes.

5

## DIP SWITCH ADJUSTMENTS



### TEST PROCEDURE

- Change DIP switch #2 to "TEST" position (ON), **close the case**, and stand near the protected glass.
- By means of a "glass break TESTER" or appropriate cassette, produce the desired glass breaking sound:  
 The Green LED (which indicates reception) should lit for a moment and immediately afterwards the Red LED will lit for a short time.
- **After the test, switch back DIP switch #2 to its "NORMAL" position (OFF) !**

6

## SPECIFICATIONS

- Detection range . . . . . 14m
- Detected Glass Types . . . . . All Types
- Minimum Glass Dimensions . . . 30x30 CM
- Power Supply . . . . . 8 to 16V DC
- Current Consumption . . . . 14mA @ 12V
- Alarm Output . . . . . Normally Closed Dry Contact (10 ohm serial), 0.1A/24V Max.
- Tamper Switch . . . Opens when cover removed, Rating 0.1A/24V Max.
- Warm-up Time . . . . . Instantaneous
- Alarm Period . . . . . 2 Sec.
- Indication LEDs . . . . . Red = Alarm  
Green = Reception
- LEDs Enable . . . . . By DIP Switch
- Test Mode . . . . . By DIP Switch
- Op. Temperature . . . . . -10°C ~ 60°C (14°F ~ 140°F)
- Humidity . . . . . 95% Max.

7