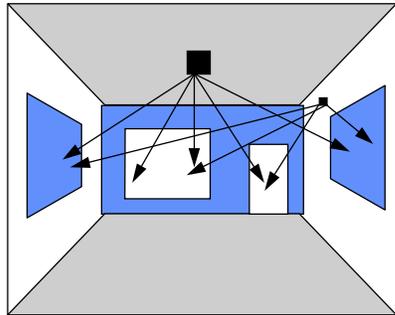
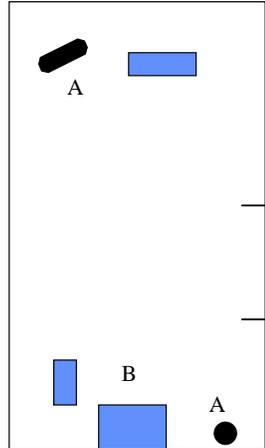
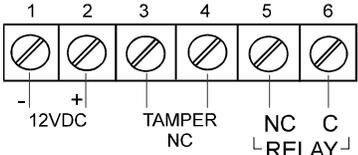


<p style="text-align: center;">INSTALLATION INSTRUCTIONS</p> <h1 style="text-align: center;">STAR</h1> <p style="text-align: center;">COMPACT GLASS BREAK & SHOCK DETECTOR</p>  <p style="text-align: center;">CE</p>	<p>FEATURES</p> <p>The STAR is the ultimate answer for all those tired of false alarms. It listens for sounds of breaking glass, which produce two sequential signals of different frequencies. The unique phased frequency detection circuitry of this detector allows detection of both shock signal and the strong signal of glass breakage creating a "false alarm free" glass break detector. The detector does not need to be attached to the window, providing volume protection, and allowing you to protect several windows with one detector.</p> <p>FEATURES</p> <ul style="list-style-type: none"> • Shock and/or breakage selectable • Analyzes two frequencies • Unique signal analysis ignores environmental disturbances • Memory LED • ASIC based electronics • Sensitivity adjustment • New ultra compact design • Flush mount installation (option) • Outstanding detection range and reliability 	<p>MOUNTING</p> <p style="text-align: center;">FIG. 1</p>  <p>The detector offers flexible installation. It can be either ceiling mounted or wall mounted as shown in the figure above.</p>
<p>SELECT LOCATION</p> <p>See FIG. 1</p> <ul style="list-style-type: none"> • If heavy blinds or curtains cover the glass, you must locate the detector behind the blinds on the window frame or above it, otherwise the blinds might block the sound. Make sure to test the unit thoroughly for proper detection. • Install the detector in a direct line of sight with the protected glass. • Do not mount the unit in front of air ducts, or close to bells (measuring 0.5m (or larger) in diameter). • For a few protected glasses in one room, locate the detector in optimal distance from them to achieve the best detection. <p>Note: for symmetrical cover of the detection area it is recommended to place the detector on the ceiling.</p>	<p>MOUNTING THE DETECTOR</p> <p>See FIG. 2</p> <ol style="list-style-type: none"> 1. Use a small screwdriver to push the prong on top of the case and open the case. 2. Snap out the detector PCB. 3. Insert the wires through the wiring hole (B). 4. Use the mounting holes (A) to mount the detector. 5. Connect the wires to the terminal.(See Terminal Connections) 6. Reinstall the detector PCB. 7. Close the case. <p>JUMPERS (FIG. 4)</p> <ul style="list-style-type: none"> • JP1 - Shock / Glass selector for detection calibration. • JP2 - Memory LED control. • JP3 - Reduces the sensitivity of sound detection by 50%. 	<p>THE BACK COVER</p> <p style="text-align: center;">FIG. 2</p> 
<p>TERMINAL BLOCK CONNECTIONS</p> <p style="text-align: center;">FIG. 3</p>  <p>Terminal 1 - Marked - (GND) Connect to ground of the control panel.</p> <p>Terminal 2 - Marked + (+12V) Connect to the positive Voltage output of 9-16 Vdc source (usually from the alarm control unit).</p> <p>Terminals 3 & 4 - Marked TAMPER If a Tamper function is required connect these terminals to a 24hour normally closed protective zone in the control unit. If the front cover of the detector is opened, an immediate alarm signal will be sent to the control unit.</p> <p>Terminals 5 & 6 - Marked RELAY These are the output relay contacts of the detector. Connect to the control at zone input.</p>	<p>THE CALIBRATION TOOL</p> <p>The Simulator/Tester & Calibration tool is especially designed to check phased frequency glass break detectors. Since the detector will react to the high frequency breakage sound only when it comes sequentially after a low frequency SHOCK sound, this device is necessary to check for proper operation of the STAR without actually breaking the glass.</p> <p>Manual mode: In this mode, the Simulator will emit the high frequency sound of breaking glass for "Glass" adjustment.</p> <p>Automatic mode: In order to simulate breaking glass, place the Simulator on the surface of the protected glass, and gently hit it with your hand. The Simulator will then emit the sound of breaking glass. Be careful not to break the glass while testing the detector.</p>	<p>TESTING THE DETECTOR</p> <p>First use the Simulator in manual mode to simulate the noise of glass breaking. Check that the yellow LED is ON. If it does not light, the sensitivity calibration is necessary (See Sound Calibration).</p> <p>Now use your hand or a padded object to carefully strike the glass. If the green LED does not light, adjust as necessary (See Shock Calibration).</p> <p>Now use the Simulator in automatic mode and check that the red LED lights. If the red LED is ON, your detector is working properly. Otherwise try adjusting the sound and shock setting until the red LED lights.</p>

GLASS BREAK ADJUSTMENT	SHOCK ADJUSTMENT	THE MEMORY FUNCTION
<p>To adjust the glass break setting (increase/decrease sensitivity) place the jumper JP1 according the GLASS marking (connecting the middle pin with the upper pin) - (See Fig. 4) Green LED is constantly ON.</p> <p>Now you can adjust the sensitivity by rotating the upper potentiometer (marked as GLASS CAL. - see Fig. 4).</p> <p>Operate the Sound Break Simulator and rotate the potentiometer clock-wise to increase sensitivity, and counter-clock-wise to decrease sensitivity until the Yellow and Red LED's are illuminating for each glass break sound.</p> <p>Remember that rotating the potentiometer will have no effect upon the settings if the middle pin of JP1 is not connected to the upper pin.</p> <p>Note When the jumper is set for GLASS adjustment, only the high frequency sound of breaking glass is detected.</p>	<p>To adjust the shock setting (increase/decrease sensitivity) place the jumper JP1 according the SHOCK marking (connecting the middle pin with the lower pin) - (See Fig. 4) Yellow LED is constantly ON.</p> <p>Now you can adjust the sensitivity by rotating the lower potentiometer (marked as SHOCK CAL. - see Fig. 4).</p> <p>Hit gently on the protected glass and rotate the potentiometer clock-wise to increase sensitivity, and counter-clock-wise to decrease sensitivity until the Green and Red LED's are illuminating for each hit.</p> <p>Remember that rotating the potentiometer will have no effect upon the settings if the middle pin of JP1 is not connected to the lower pin.</p> <p>Note When the jumper is set for SHOCK adjustment, only the low frequency of the shock signal prior to glass breakage is detected.</p>	<p>The alarm memory function allows the identification of an alerting detector out of multiple detectors connected to one (or the same) zone of the control panel.</p> <p>To enable this function, Set ON jumper JP2 (MEM) (connected on both pins - See Fig. 4)</p> <p>In case of an alarm, the Red LED will stay ON until memory function is reset.</p> <p>To reset the memory function, switch OFF (disconnect) the voltage wire (+12V) from the TERMINAL BLOCK for minimum 15 seconds then switch on (reconnect) voltage wire (+12V). (The control panel key ON/OFF can be used for this application if it control the voltage +12V).</p> <p>SENSITIVITY SETTING</p> <p>For some installations you may find that VIG is too sensitive. Use JUMPER JP3 to decrease sensitivity to 50%.</p> <p>JP3 OPEN - 100% sensitivity JP3 CONNECTED - 50% sensitivity</p>

FINAL TESTING	PCB LAYOUT	WIRE SIZE REQUIREMENTS																								
<ul style="list-style-type: none"> Make sure to disconnect the jumper at JP1. When the jumper is disconnected, the detector will detect both shock and sound frequencies. <p>To ensure maximum protection against false alarms, activate any device in the area, which might automatically cycle pumps, generators, heating/air conditioning units, etc. If the cycling devices trigger an alarm, mount the unit in a different location.</p>	<p>FIG. 4</p>	<p>Use #22 AWG (0.5mm) or wires with a larger diameter. Use the following table to determine required wire gauge (diameter) and length of wire between the detector and the control panel.</p> <table border="1"> <thead> <tr> <th>Wire Length</th> <th>m</th> <th>200</th> <th>300</th> <th>400</th> <th>800</th> </tr> </thead> <tbody> <tr> <td>Wire Diameter</td> <td>mm</td> <td>.5</td> <td>.75</td> <td>1.0</td> <td>1.5</td> </tr> <tr> <td>Wire Length</td> <td>ft</td> <td>800</td> <td>1200</td> <td>2000</td> <td>3400</td> </tr> <tr> <td>Wire Gauge</td> <td>#</td> <td>22</td> <td>20</td> <td>18</td> <td>16</td> </tr> </tbody> </table>	Wire Length	m	200	300	400	800	Wire Diameter	mm	.5	.75	1.0	1.5	Wire Length	ft	800	1200	2000	3400	Wire Gauge	#	22	20	18	16
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