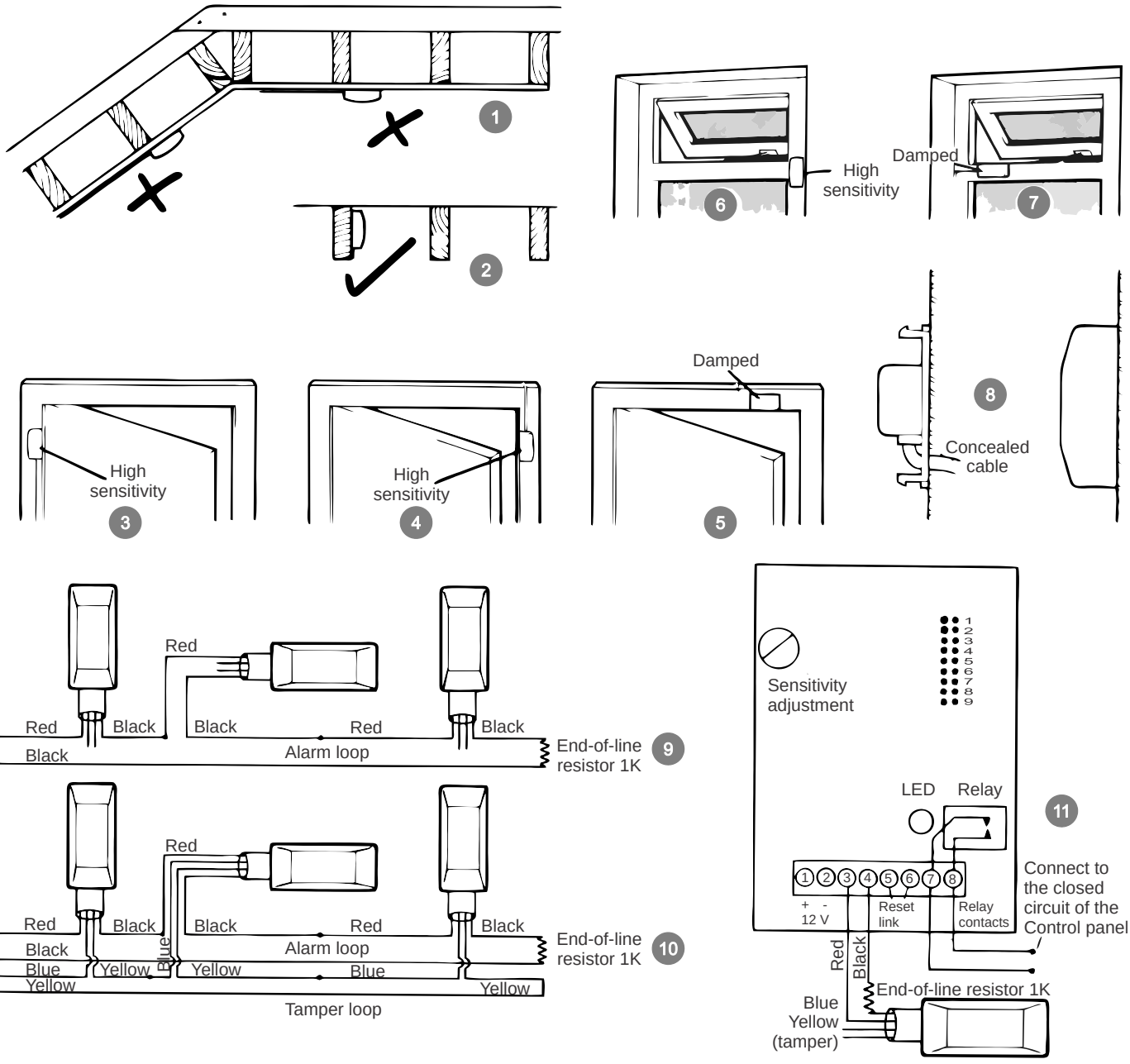
GS600 Shock Sensor Installation Sheet



Description

GS600 is a low profile Inertia shock sensor designed for the aesthetically conscious house market. GS600 is used for the detection of forced entry through windows, doors, walls, etc. This patented “state of the art” design has produced an extremely compact and easily installed unit. The GS600 unique design using multiple gold-plated contact points, sealed in a rugged ABS plastic housing, results in an extremely reliable sensor. The sensor is supplied with two metres of four-core cable. The red and black wires are connected across the sensor with the blue and yellow wires providing the tamper loop through the sensor housing. GS600 can be mounted to any vertical structure in both high sensitivity and low sensitivity positions, for example:

- If the sensor is mounted on a vertical structure with the cable entering the sensor from below or above, then the sensor is mounted in a high sensitivity position
- If the sensor is mounted horizontally on a vertical structure, for example, with the cable entering the sensor

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from the left or the right, then the sensor is mounted in the low sensitivity position

GS600 is *not* designed to be mounted on a horizontal structure, for example, the sensor should *not* be mounted flat on a ceiling, but could however be used if the ceiling has joists, where the sensor could then be mounted on the vertical side of the joists. This is illustrated in Figures 1 and 2. Figures 3, 4, and 6 show GS600 mounted in the high sensitivity position. Figures 5 and 7 show GS600 mounted in the low sensitivity position. Figure 8 shows how the sensor can be mounted with a concealed cable. This makes for particularly attractive installation with no cable shown at the sensor. Figure 9 shows GS600 wired on a two-wire loop. In this situation the blue and yellow tamper wires are not used. Figure 10 shows a four-wire installation with the sensors connected in series on the red and black wires, and the blue and yellow wires connected in series to make a tamper loop. Figure 11 shows GS600 connected in series with the Aritech GS615 Pulse count Analyser Board.

The Single Multi Count Analyser unit

The Single Multi Count Analyser has an amplitude setting, which allows the installer the flexibility of adjusting the level of a single shock to give an alarm activation. The analyser also has a programmable 1-second count facility, which enables the alarm to be activated after a series of small shock are received at 1-second intervals. The counter is programmable between 1 and 9 counts within a fixed time period of approximately 30 seconds.

The LED will illuminate for one second when small shocks are seen by the sensor loop. These shocks are counted and held in the memory for approximately 30 seconds. If the programmed number of small shocks is received, the alarm activates, or if one shock larger than the setting of the potentiometer is received, the alarm will activate.

A typical example of where this analyser is used is the private house installation. The amplitude setting is adjusted to a level, which will activate the alarm when sufficient shock is applied to smash the glass of the window. The Multi count facility will detect an intruder gently prising open a window when a small number of shocks at 1-second intervals are detected on the same frame.

The second loop consists of a 1 kΩ end-of-line resistor wired in series with the sensors, should the sensor loop be cut or the 1 kΩ end-of-line resistor be short-circuited, the alarm will be activated.

Test procedure for determining optimum spacing for Aritech sensors

As buildings have different characteristics in their ability to transmit high frequency shocks, it is necessary to test each structure for optimum spacing of the sensors.

Materials such as metal, glass, mass concrete, and hardwood are relatively dense and therefore have good conductivity of high frequency shocks. Good sensitivity range will be achieved on these structures.

Softer materials such as plaster, plaster board, and softwood are less dense in their composition because of the high content of the air. High frequency shocks in these materials will be dampened reducing the sensitivity range. Sensors on these structures must be mounted closer together.

1. Mount sensors in required positions.
2. Connect to analyser board in series with the end-of-line resistor connected.
3. Apply a number of light sharp shocks to the structure.

   The LED on the analyser should light, indicating that the analyser is receiving signals from the sensor.
4. If the LED does not light, move the sensor closer together and use more sensors where necessary.
5. Adjust sensitivity pot on analyser to trip when one strong shock is made to the structure.
6. Select the count number (by means of the selector plug) required to trip the analyser board when a number of small shocks are applied to the structure.

   When the analyser board receives the programmed number of shocks, the LED will latch on for 5 seconds and the alarm relay will drop out.

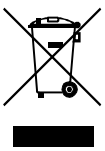
   This now indicates that the optimum spacing has been achieved.

Ordering

The order codes for GS600 sensors are:

- GS600: White sensor
- GS600B: Brown sensor

Regulatory information

Manufacturer	UTC Fire & Security Americas Corporation, Inc. 3211 Progress Drive, Lincolnton, NC, 28092, USA AUTHORIZED EU REPRESENTATIVE: UTC Fire & Security B.V. Kelvinstraat 7, 6003 DH Weert, Netherlands
Product warnings and disclaimers	THESE PRODUCTS ARE INTENDED FOR SALE TO AND INSTALLATION BY QUALIFIED PROFESSIONALS. UTC FIRE & SECURITY CANNOT PROVIDE ANY ASSURANCE THAT ANY PERSON OR ENTITY BUYING ITS PRODUCTS, INCLUDING ANY “AUTHORIZED DEALER” OR “AUTHORIZED RESELLER”, IS PROPERLY TRAINED OR EXPERIENCED TO CORRECTLY INSTALL FIRE AND SECURITY RELATED PRODUCTS. For more information on warranty disclaimers and product safety information, please check https://firesecurityproducts.com/policy/product-warning/ or scan the QR code.
	2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info

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www.utcfireandsecurity.com or www.interlogix.com

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