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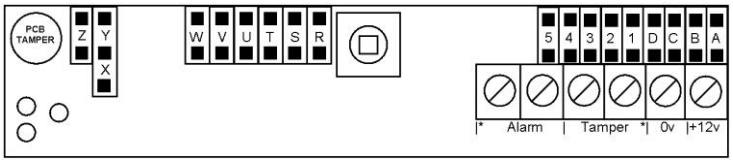
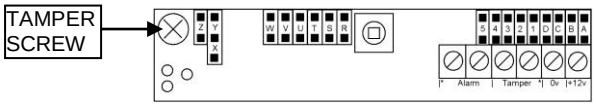
PART CODE: SEISMO
DESCRIPTION: VIBRATION AND MOTION SENSOR (STANDARD VERSION)
SECURITY GRADE: 2
ENVIRONMENTAL CLASS: II
STANDARDS MET: EN50131-1 <> PD6662:2017

SEISMO is a sensor for detecting vibration, motion or either of both inputs. It requires a DC supply of 10v-15v (nominal 12v) power supply to function.



INSTALLATION

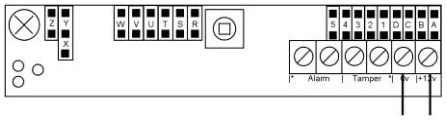
Fit the base tightly to the surface to be monitored and insert the PCB. Ensure that a tamper screw is fitted to the top left of the PCB.



After calibration, configuration and wiring (see below) – place the lid on the unit and screw into place.

VIBRATION CALIBRATION

Connect the power supply. The red LED will light up for 5 seconds as the unit powers up. The unit **must** be still during this process.



Ensure a link to the pins marked **X** is applied. A link here forces the unit to use stored threshold values.

Next, link the pins marked **R**. This will put SEISMO into 'learn mode'. The blue LED will begin to flash.

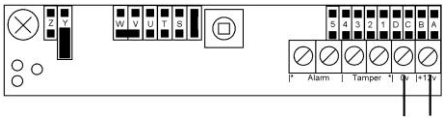
When the red LED begins to flash, the unit is waiting for your input. Apply a vibration/shock near the sensor at the intensity you wish to cause an alarm condition. A constant blue LED after this indicates the sensor has detected the disturbance.

Shortly after, the red LED illuminates constantly. This indicates that the level has been stored in memory. Remove the link over the **R** pins to complete the procedure.

Do not remove the **X** link – this must be left fitted to ensure the unit uses the thresholds you have calibrated.

MOTION CALIBRATION

To calibrate motion, repeat the previous steps with a link placed between bottom pins of **W** and **V**. The green LED will light instead of the blue if motion is being calibrated. Likewise, apply motion to the monitored surface at the intensity required to cause an alarm condition. See below for a SEISMO undergoing motion calibration:



Remove the **W-V** and **R** links after calibration is complete.

CALIBRATION NOTES

After any calibration of the unit, ensure the **R** link is removed before completing installation of the product. SEISMO will not function normally if it is left in this state.

Sensitivities can be changed by repeating the calibration steps – the new setting will take the place of the previously set one.

MODE SELECT

To set SEISMO to detect vibration, **do not fit any links to W or V**.

For motion, fit a link between the bottom pins of **W & V**.

For motion *or* vibration (either will trigger alarm), fit a link to the pins marked **W**.

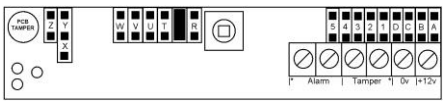
For motion *and* vibration (both required to trigger alarm), fit a link between the top pins of **W & V**.

LED OUTPUT

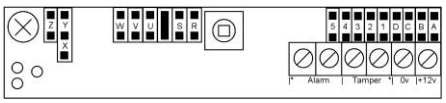
SEISMO is fitted with 3 indicator LEDs – red, green and blue.

Red – power up/alarm condition
Blue – vibration indication/flashing comfort LED
Green – motion indication

To enable LED output, fit a link to the pins labelled **S**.



To enable the comfort LED, fit a link over **T**. The blue LED will pulse once every 10 seconds when this mode is selected.



VIBRATION PULSE SETTING

If SEISMO is set to detect vibration only, a pulse count can be set. This is the number of disturbances required within a rolling 30 second window to trigger the alarm. Fit links to the following points to enable particular pulse settings:

No setting: No additional links

Pulse count 2: Fit link to pins marked **U**

Pulse count 4: Fit link between bottom pins of **V & U**

Pulse count 6: Fit link to pins marked **V**

SUPERVISED OUTPUT

SEISMO functions on a fully supervised EOL loop. See the table below and fit the needed links for your security panel:

Control Panel	Value		Jumper	
	EOL	Alarm	EOL	Alarm
Honeywell (Ademco/Microtech)	1k	1k	A	1
Cooper (Scantronic, Menvier, Texecom, Pyronix, Castle)	2k2	4k7	B & C	2
Siemens, Aritech, HKC	4k7	4k7	C	2
RISCO (Gardtec)	4k7	6k8	C	3
Guardall	4k1	4k1	B	2 & 4
DSC	5k6	5k6	D	3 & 4
Europlex	2k2	2k2	B & C	5
Inner Range	2k2	6k8	B & C	3

SEISMO can also be fitted for a 4 wire installation. In this case, use the wiring terminals as labelled and do not fit any links to pins to **A-D** or **1-5**

The page opposite shows examples of SEISMO configurations.

OPERATING CONDITIONS

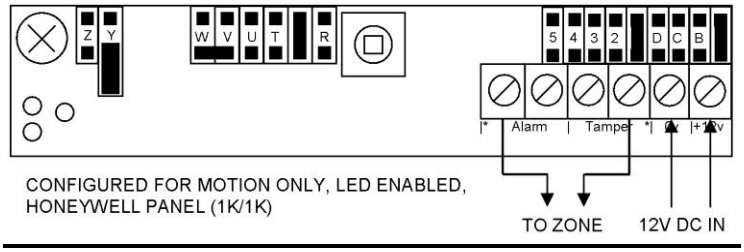
Input: 10V-15V – nominal 12V
Quiescent current draw at 12V: 9mA
Maximum current draw at 12V: 15mA

Detection range will vary depending on the mounting surface and distance/force of any impact. Test your setup thoroughly to ensure effective coverage.

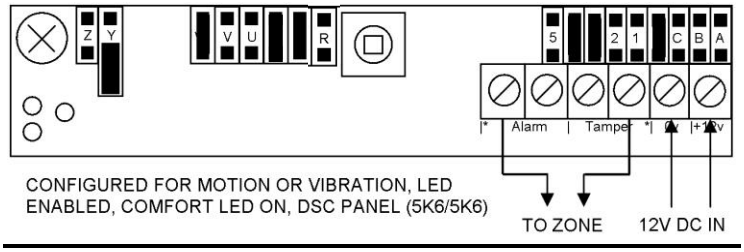
SERIAL PROGRAMMING

Using a specified cable, SEISMO may be configured directly through a serial link. See our website for further instructions regarding this method of programming.

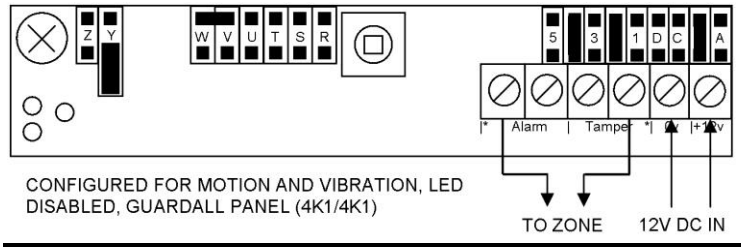
EXAMPLE CONFIGURATIONS



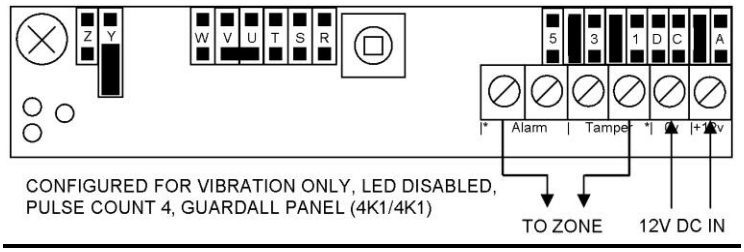
CONFIGURED FOR MOTION ONLY, LED ENABLED, HONEYWELL PANEL (1K/1K)



CONFIGURED FOR MOTION OR VIBRATION, LED ENABLED, COMFORT LED ON, DSC PANEL (5K6/5K6)



CONFIGURED FOR MOTION AND VIBRATION, LED DISABLED, GUARDALL PANEL (4K1/4K1)



CONFIGURED FOR VIBRATION ONLY, LED DISABLED, PULSE COUNT 4, GUARDALL PANEL (4K1/4K1)

NOTICE

Knight Fire & Security Products Ltd reserves the right to make amendments without prior notice.

To ensure you are using the most recent instructions, specification sheets & drawings, download them directly from our website:

www.knightfireandsecurity.com

Or scan below to be taken directly to the SEISMO product page:

>> SEISMO PRODUCT INFO <<