

INSTALLATION

PART CODE: SEISMO-ADVANCEv3

DESCRIPTION: VIBRATION AND TILT SENSOR
(ADVANCED VERSION)

SECURITY GRADE: 3

ENVIRONMENTAL CLASS: II

STANDARDS MET: EN50131-1 <> TS50131-2-8 <> PD6662:2017

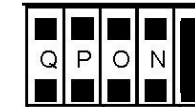
START HERE

- Unscrew and remove the lid
- Remove the PCB from the base
- If using rear cable entry, thread zone & power wires through base
- For side entry, there are knockouts on each side and 2x on the bottom of the lid.
- Screw base to mounting surface using 2x countersunk head screws
- Configure PCB as follows →

Fit EOL / Alarm shunts vertically as per table below to configure resistors:

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

If using fault output, (Grade 3 necessity) fit vertical shunt to M to enable. Select resistor with an additional shunt as follows:



SHUNT	RESISTOR
N	2200Ω (2k2)
O	3000Ω (3k)
P	6800Ω (6k8)
Q	12000Ω (12k)

Select activation mode:



Vibration only



Tilt only



Vibration OR Tilt



Vibration AND Tilt

Default: Vibration only

- Replace and screw down lid.

Select high or low sensitivity with HI shunt and fine-tune with potentiometer:



High sensitivity (Default)



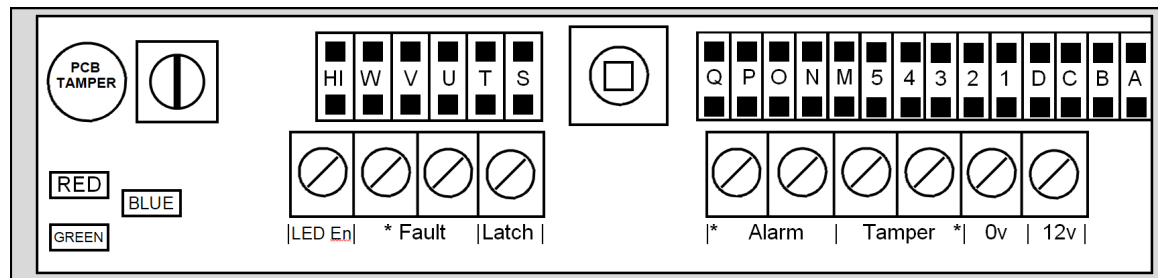
Low sensitivity



Increase sensitivity



Decrease sensitivity



- Insert PCB into base
- **For GRADE 3:** Screw 1x dome head tamper screw through PCB tamper hole & base into surface
- Connect 12V DC power & zone wires (see overleaf for examples). LEDs will light in sequence as the product starts up.

Heartbeat/Comfort LED:
Gently pulses the blue LED at a 10s interval when powered.



Heartbeat off



Heartbeat on

Default: Heartbeat off

LED output:
Blue = Vibration
Green = Tilt
Red = Alarm
Red Flash = Fault/Low Voltage



LEDs disabled



LEDs enabled

Default: LEDs enabled

If using vibration only, a pulse count can be set:



No pulse count



Pulse count 2



Pulse count 4



Pulse count 6

Default: No pulse count

**NOTES & WIRING
OVERLEAF**

WIRING/NOTES

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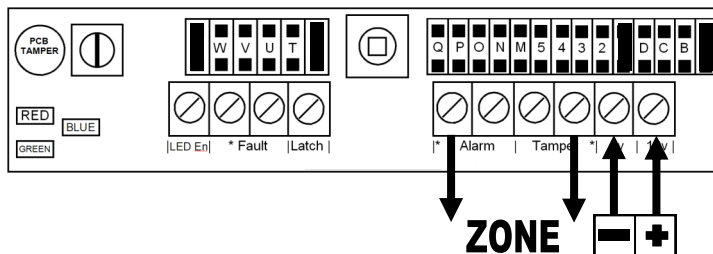
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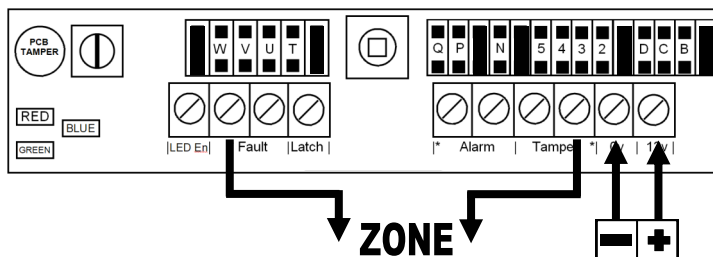
STANDARDS MET: EN50131-1 <> TS50131-2-8 <> PD6662:2017

When configured, wire the unit as per one of the examples below. **Fault output must be used for Grade 3 installations:**

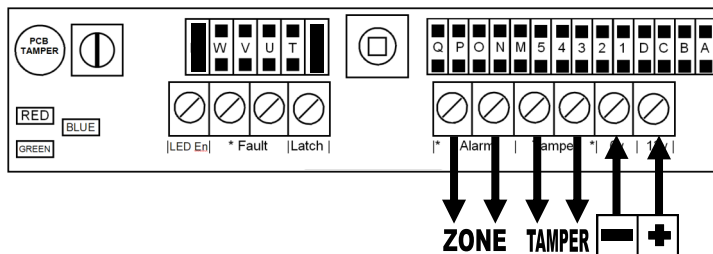
Example: G2 Supervised EOL/Alarm Circuit (1k/1k)



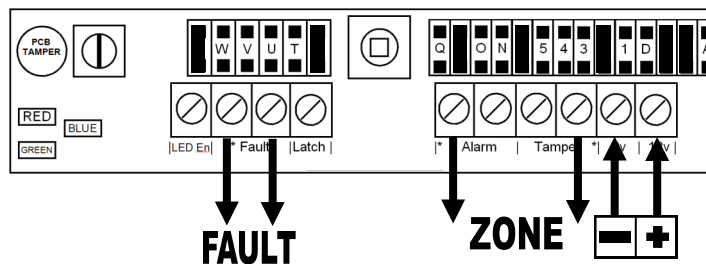
Example: G3 'Triple EOL/TEOL' Circuit (1k/1k/3k)



Example: G2 "4 Wire" Unsupervised Circuit



Example: G3 Supervised EOL/Alarm + Fault Circuit (2k2/4k7 + 6k8)



DETECTION RANGE

Detection ranges for vibration will vary depending on mounting points and material—even among alike materials. Use the estimates below as a guide:

SURFACE	RADIUS
Brick Wall	2.5m
Steel	3m
Wood	3.5m
Concrete	1.5m
Plywood	4m
Glass	3.5m

POWER RATING

Voltage	Quiescent Current (mA)	Max Current (mA)
Min 10v	5.5	24.3
Nom 12v	5.55	25.2
Max 15v	5.6	25.5

PANEL LED CONTROL

Wiring the LED En terminal to a point in the panel that becomes a ground/0V during a walk test will enable LED output only during the walk test. **Remove shunt S if you intend to wire this terminal. Comfort LED (shunt T) is unaffected by this setting.**

LATCH

Connecting the Latch terminal to a point in the panel that becomes +12V when set (usually Set+ve) will disable LED output when the system is armed. Comfort LED is unaffected. On disarming, the units red LED will flash - along with blue for vibration or green for tilt - if it was triggered.

FAULT RELAY BEHAVIOUR

At a supply voltage under ~9.5V, the fault relay will open and the red/green LEDs will flash. Further reduction of supply voltage under ~3.5V will no longer sustain the unit, causing the alarm relay to open.

SHARED ZONE

EN50131 standards disallow wiring products with on-board microcontrollers in series configuration, if the devices cannot be discretely addressed/identified.

This product becomes non-compliant if wired in series.