Technical Bulletin

NEW NovaGardGA Bell Box

Non Grade 3 Mode

The New NovagardGA bell box (with DIP switches instead of Jumpers) has a new feature of 'Bell Trigger Monitoring' in order to comply with EN50131-4 standard for Grade 3.

This feature monitors the Bell Trigger connection (S-) by means of measuring the screw terminal voltage. If this screw terminal voltage falls below 2V or rises above 9V, the Bell will be activated.

When connecting to a RISCO (GardTec) panel, the 'S-' terminal is effectively 'floating' (has no voltage connection until activated). Nothing extra is required in the wiring configuration for the new NovagardGA bell box to function with a RISCO (GardTec) panel.

However, some intruder panel manufacturers choose to 'pull-up' or 'pull-down' their bell trigger terminal when not active. This will cause the trigger voltage to fall below 2V or rise above 9V, thus causing the new NovagardGA bell box to be activated.

In this case, a resistor will need to be fitted (at the panel side) to combat the 'pull-up' or the 'pull-down' effect. Different manufacturers use different resistors in their control panels to 'pull-up' or to 'pull-down'. If using one of the following manufacturers' panels, please connect the suitable resistor as follows:

Scantronic	4K7 Resistor	(Yellow/Violet/Red)	Connect between Bell Trig and 0V
Texecom	2k2 Resistor	(Red/Red/Red)	Connect between Bell Trig and 0V

Please consult your panel manufacturer for resistor value if not listed above.

By adding this resistor, the voltage of the Bell Trigger terminal (when not activated) will lie between 3V and 8V and be in a non active state.