Application Notes – Integration with the GE "NX" series of security panels

The following are examples of how the Simply Automated Security Panel Starter Kits (i.e. DKIT - 03SP and - 04SP) can be integrated with several of the GE NX series of security panels. All of the panels have programmable auxiliary open collector outputs which will require the use of an external relay for use with the I/O module (model UMI-32SP). One of the panels, the NX8E, is an exception in that it has both open collector outputs and two Form C relays, but for consistency of this application note, only the open collector outputs will be discussed.

There are many auxiliary output events that can be used to trigger the I/O module. The three events, or data types, selected for this application note are the following:

1) Data Type 20, Entry or Exit; turns on/off first dimmer in Security Panel (SP) Kit
2) Data Type 0, Burglary Alarm; turns blinking on/off for all dimmers in any DKIT
3) Data Type 49, Key FOB Function 1; turns on/off for all dimmers in any DKIT

Program the security panel's auxiliary outputs as required. Note that the use of Data Type 49 will require a wireless receiver and a Key FOB.

Reference Table 1 and the three diagrams below for panel configuration and relay connectivity. Function type will be one of the three pre-configured inputs (PCI).

GE Panel	# of Auxiliary Outputs	Output and Data Type	Function	Trigger Type	Relay Connectivity
NX4	2	Aux.1 – Type 20 Aux. 2 – Type 0	PCI 1 PCI 2	Low Voltage Contact Closure	Diagram 1 Diagram 2
NX6	4	Aux.1 – Type 20 Aux. 2 – Type 0 Aux. 3 – Type 49	PCI 1 PCI 2 PCI 3	Low Voltage Contact Closure Contact Closure	Diagram 1 Diagram 2 Diagram 3
NX6V2	4	Aux.1 – Type 20 Aux. 2 – Type 0 Aux. 3 – Type 49	PCI 1 PCI 2 PCI 3	Low Voltage Contact Closure Contact Closure	Diagram 1 Diagram 2 Diagram 3
NX8	4	Aux.1 – Type 20 Aux. 2 – Type 0 Aux. 3 – Type 49	PCI 1 PCI 2 PCI 3	Low Voltage Contact Closure Contact Closure	Diagram 1 Diagram 2 Diagram 3
NX8V2	4	Aux.1 – Type 20 Aux. 2 – Type 0 Aux. 3 – Type 49	PCI 1 PCI 2 PCI 3	Low Voltage Contact Closure Contact Closure	Diagram 1 Diagram 2 Diagram 3
NX8E	4	Aux.1 – Type 20 Aux. 2 – Type 0 Aux. 3 – Type 49	PCI 1 PCI 2 PCI 3	Low Voltage Contact Closure Contact Closure	Diagram 1 Diagram 2 Diagram 3

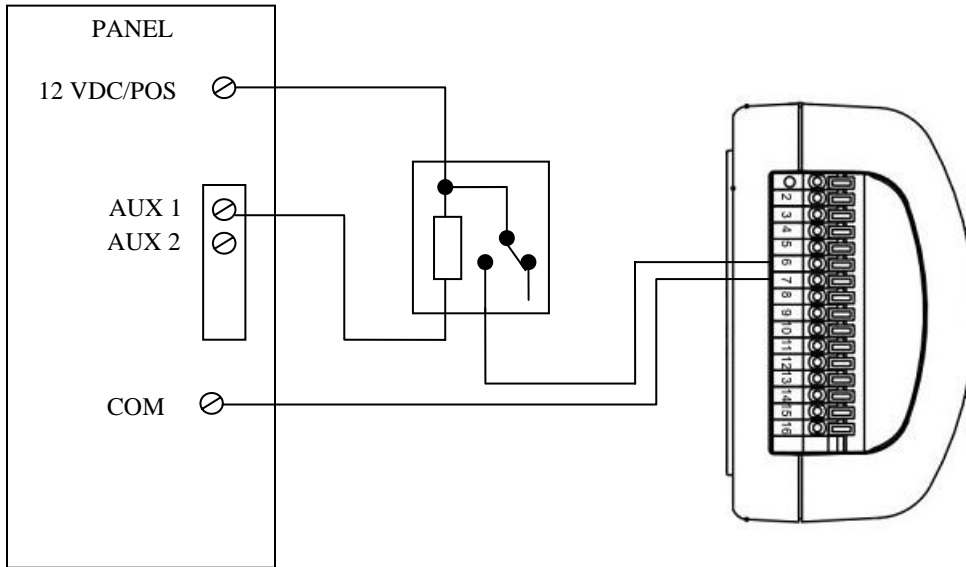**Table 1 – Panel Configuration**

Figure 1 – Relay connection, voltage trigger, PCI 1
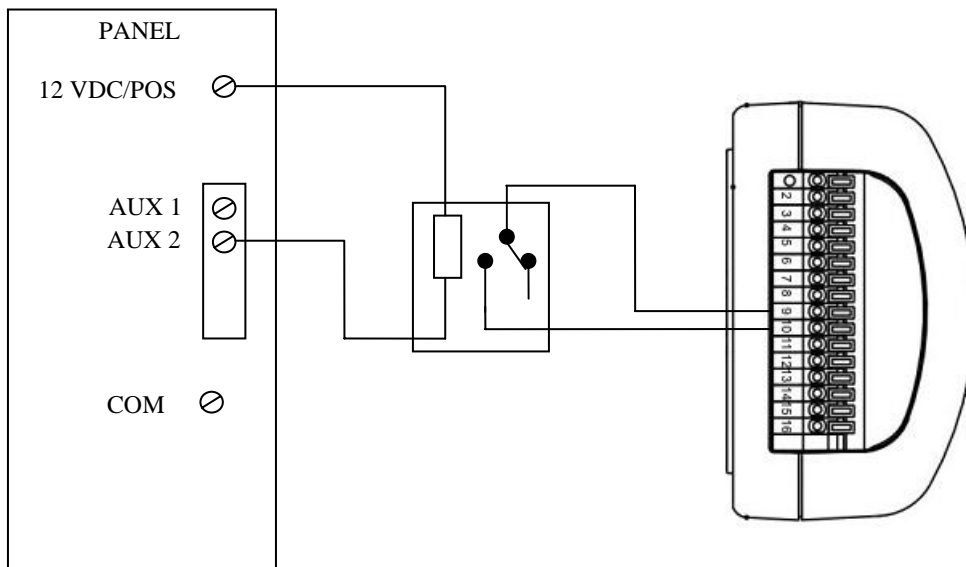

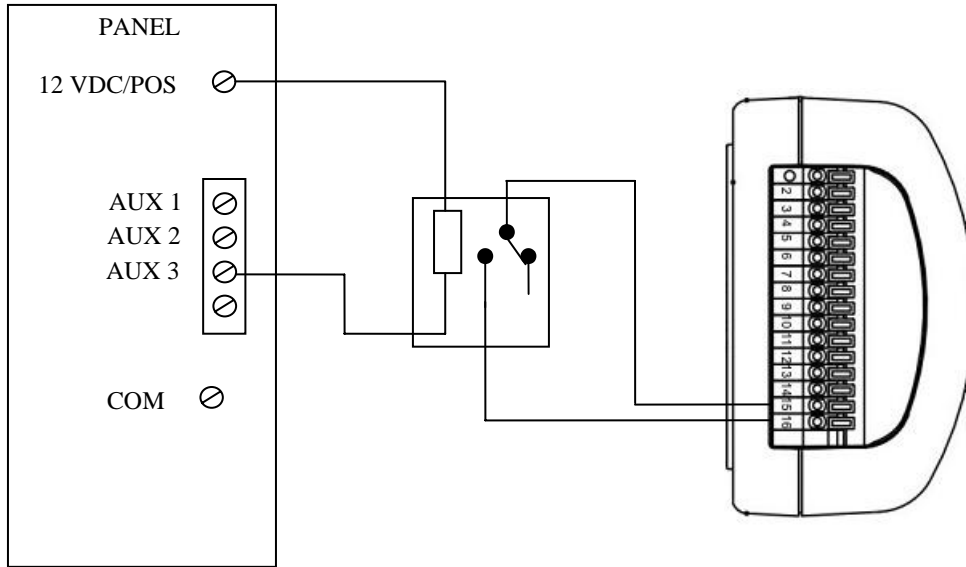
Figure 2 – Relay connection, contact closure trigger, PCI 2

Figure 3 – Relay connection, contact closure trigger, PCI 3