

2000 Series Output Expansion Module

(2000-8EX)

Product Description

The 2000 Series Output Expansion Module is for use the 2000 Series Keypads. The unit contains eight individual 1A Form-C relays which you can use to operate a variety of devices, depending on your application. It connects to the keypad using a 6-wire connection and is powered from the keypad.

Specifications

The following table contains the electrical, mechanical and environmental specifications.

Parameter	Specifications
Voltage Requirements	Powered From Keypad
Current requirements (max)	VDC VAC
	10V: 133mA 12V: 143mA
	30V: 230mA 24V: 160mA
	Note: These values are with all eight relays energized.
Relay Contact Rating	1A @ 30VAC/DC
Mechanical Dimensions	2.5" H x " 3.5W x 0.5" D
Environment	Indoor Only
Temperature Tolerance	-31°F to 151°F (-35°C to 66°C)
Distance from Keypad (max)	100 Feet
Cable Type	22 AWG Stranded and Shielded

Note: Add the maximum current draw shown to your total keypad current to calculate your total current requirements.

Wire Harness Connections

The output module has eight wire harness connections for the eight relays. They are labeled P1 (for relay 1) through P8 (for relay 8). The table below shows the wire harness connections.

Pin	Wire Color	Description
1	Green	Relay Normally Open (NO)
2	Blue	Relay Common (C)
3	Gray	Relay Normally Closed (NC)

Connecting the Output Module to the Keypad

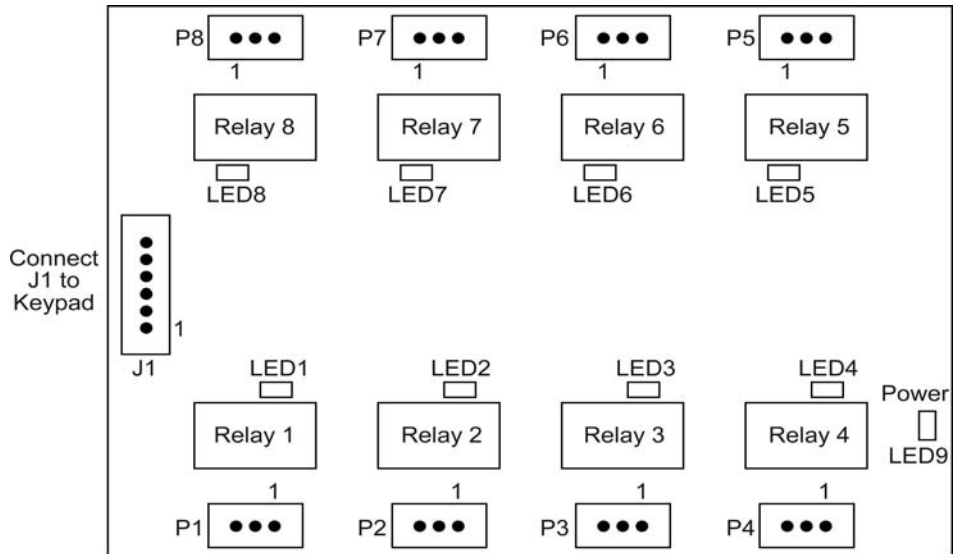
If the Output Module is within 18 inches of the keypad, use the supplied 6-conductor wire harness to make the connection. If your Output Module is located more than 18 inches from the keypad (up to a maximum of 100 feet), you must cut the wire harness in half and plug one half into the keypad the other into the Output Module. Then connect the two using 22 AWG stranded and shielded cable. Make sure you connect the wire harness pin to pin (pin 1 on the Output Module to pin 1 on the keypad and so on). You must connect the drain wire from your cable to the negative on your keypad (the black wire to your power supply).

Mounting the Output Module

Use the double-sided tape on the bottom of the Output Module to secure the unit to a double-gang plate.

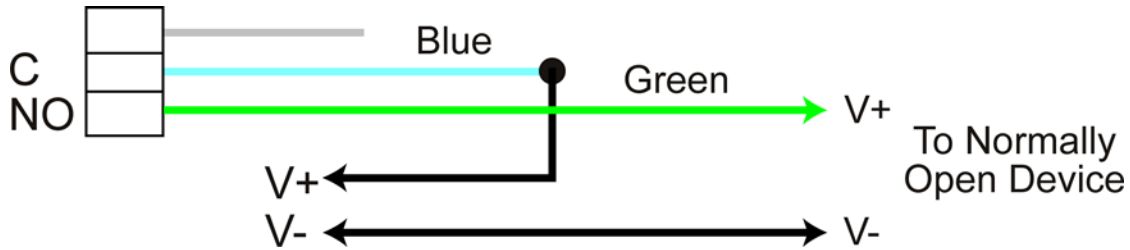
Output Module Diagram

Below is a diagram of the Output Module. Each relay has a corresponding wire harness connector and LED (1 through 8). When a relay is energized, the LED turns on. LED9 is the power LED and turns on when the board is powered. The keypad connects to connector J1 on the left hand side of the board.



Wiring a Normally Open Device

The diagram below shows how to connect a normally open device. Connect the common wire (blue) to positive on your power supply, connect the normally open wire (green) to positive on your device and connect the negative of your device to your power supply.



Wiring a Normally Closed Device

The diagram below shows how to connect a normally closed device. Connect the common wire (blue) to positive on your power supply, connect the normally closed wire (gray) to positive on your device and connect the negative of your device to your power supply.

