# Installation Instructions

# **MOOSE ZXODM**

Output Driver Module

#### **APPLICATIONS**

The ZXODM Output Driver Module adds ten expansion outputs to the ZX Control Family. Two ODMs can be added to provide a total of twenty fully programmable outputs to the control. The ZXODM is ideal for use as an interface for relays, lamps, LEDs, derived channel communicators, long range wireless alarm transmitters, etc.

### **FEATURES**

- 10 fully programmable outputs.
- Quick connect to ZX Control Family data bus.
- Resistor cut changes ODM #1 to ODM #2 for ten additional outputs.

#### **SPECIFICATIONS**

- 12 VDC nominal outputs with 13.8 Volt input.
- 40mA maximum current output (per output).
- Operating temperature range: 0° C to 50° C (32° F to 122° F).
- Twelve position cable for 10 outputs plus common negative and +12V.
- Quick connect 4-wire cable for data bus.
- Board dimensions: 2.3 x 3.65 inches.
- 10-13mA current drain, not including outputs.

### **OUTPUTS**

Outputs can be programmed for several conditions. All output conditions must be programmed via a keypad or the RPM/2 Pro Upload/Download program.

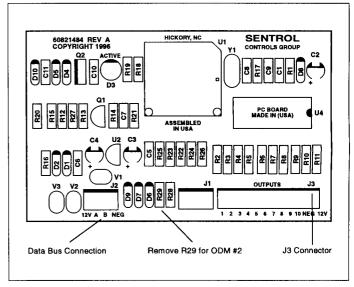


Figure 1

## **INSTALLATION**

- 1. Remove power from the control panel by turning the ON/OFF switch to OFF.
- 2. ODMs are shipped from the factory preset as ODM #1. To change an ODM #1 to ODM #2, remove resistor R29 as shown in Figure 1.
- Mount the ODM module(s) inside the metal box as close as possible to the control using the double-sided tape provided.
- Connect the four-wire flying lead harness to connector J2 on the ODM. Connect the green wire to Data A on the control. Connect the white wire to Data B on the control.
- 5. Connect the red wire to KP+12 (or to AUX12) on the control.
- 6. Connect the black wire to Negative (NEG) on the control.
- 7. Connect the 12 pin cable to J3.

8. Wire the outputs to the devices. Figure 2 shows a typical LED and relay connection. Figure 3 details the color codes of the 12-wire cable. Do not exceed 40mA of current draw from each output. Do not exceed 250mA of total current through the Red (+12V) and Black (NEG) wires of the twelve pin cable. Use 18awg wire for current drains in excess of 250mA and wire them directly to the control AUX12 and Negative terminals.

Note: The ODM outputs have limited transient immunity and should not leave the enclosure or be protected by an auxiliary enclosure.

9. After all wiring is complete, turn the ON/OFF switch to ON and proceed with programming the output conditions (see the ZX400/ZX410 Programming Manual, part number 64812702).

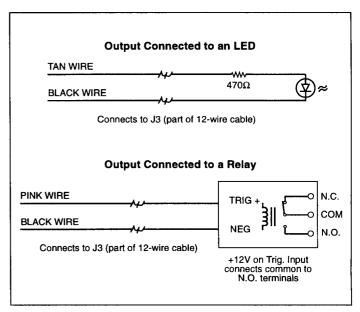


Figure 2

FUNCTION/OUTPUT	WIRE COLOR
1	Tan
2	Pink
3	Gray
4	Violet
5	Yellow
6	Orange
7	Blue
8	Dark Brown
9	Green
10	White
NEG	Black
12V	Red

Figure 3



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