

IOM Multiplexed Relay Output Module Installation Instructions

Description

The IOM Multiplexed Relay Output Module (IMR) with manual operation switch allows a single Input/Output Module (IOM/2) output to control a pair of positioning relay contacts. The manual operation switch (used in conjunction with the IOM/2's on/off/auto switch) can be used to force the valve/damper actuator to the closed position or the open position.

Specifications

Power Requirements

Voltage: 24 VAC
Consumption: 0.5 VA

Operating Environment

Temperature: 32° to 122°F (0° to 50°C)

Precautions

Take the following precautions during installation:

- Observe all national and local electrical codes.
 - Use this module only with triac input/output modules.
 - Use this module only with the IOM Multiplexed Output Positioning Program in Novar Controls' software.
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Mounting the Module

The module should be mounted near the positioning valve so that when manual operation is necessary, the mechanical action can be observed.

Use the following procedure and refer to Figure 1, as necessary, to mount the module.

Step	Procedure
1	Position the module against the mounting surface and mark the location of the mounting holes.
2	Drill holes at the locations marked.
3	Position the module over the holes and insert and tighten the screws (not supplied) to secure the module.

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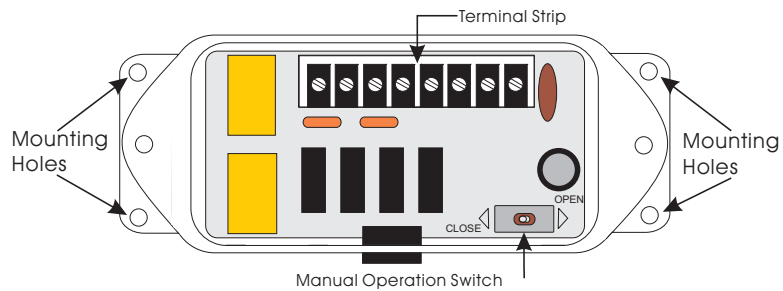


Figure 1. IMR with cover removed

Wiring the Module

Use the following procedure and refer to Figure 2, as necessary, to connect the wiring for the module.

Step	Procedure
1	<p>Connect wires from the module's Terminals 3 and 4 directly to the appropriate IOM/2 output terminal pair, ignoring polarity.</p> <hr/> <p>NOTE! Do not connect any other power supplies or grounds to the IOM/2 terminals.</p> <hr/>
2	<p>Connect the normally open Terminals 5 through 8 to the device being controlled.</p> <ul style="list-style-type: none"> The failure mode is with both relay contacts open.
3	<p>Connect 24-VAC power to the module at Terminals 1 and 2.</p> <ul style="list-style-type: none"> Several IOM Multiplexed Relay Output Modules can be supplied by the same transformer within consumption limits.

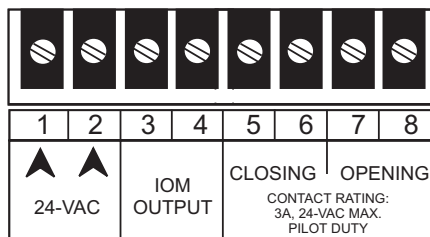


Figure 2. IMR terminal strip

Automatic Operation

When the module's manual operation switch is in the automatic (center) position, the IOM output sends three types of signals to the module to control the positioning relays:

- **Steady state off**—Open both sets of contacts.
 - **Pulsed on/off**—Close the opening contact and drive the valve/damper actuator in opening direction.
 - **Steady state on**—Close the closing contact and drive the valve/damper actuator in the closing direction.
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Manual Operation

To operate the positioning equipment manually, put the IOM on/off/auto switch in the off position and toggle the IOM Multiplexed Relay Output Module's manual switch to:

- **Close**—Close the closing contact to drive the valve closed.
- **Open**—Close the opening contact to drive the valve open.

Hold the switch until the valve reaches the desired position.

Model and Part Numbers

Use the model numbers provided in Table 1 to order the necessary Novar Controls parts.

PRODUCT	MODEL NO.	PART NO.
IOM Multiplexed Relay Output Module	IMR-1010	726000000



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