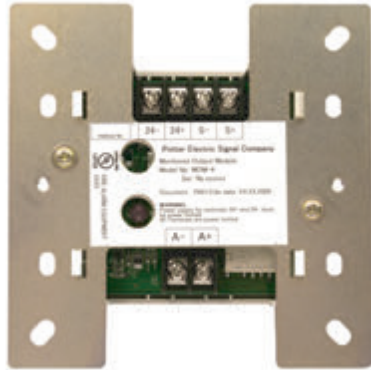




# MOM-4

## MONITORED OUTPUT MODULE



P/N 99239

### Features

- 24 VDC Monitored Output Control
- 5.1k ohm EOL
- NAC or Releasing Control
- LED indicates activation of module
- All terminals are power limited
- Listed with Potter/Amseco®, Gentex®, & Cooper Wheelock® sync modules and devices
- Maximum standby and alarm current 250  $\mu$ A
- For JFS-A Series control panels or JFS-IP Series control panels using Nohmi protocol



### Description

The MOM-4 module provides a programmable source of power to control and operate output devices including notification appliances and releasing devices. Additionally, it continuously supervises wiring connected to terminals A+, A- for open or short circuits and 24+ and 24- when 24VDC is applied.

MOM-4 employs one red LED to indicate the status. In normal condition, the LED flashes. When the output is activated, the LED will turn on constantly. In case of trouble, the LED will turn off.

Since the system allows maximum 13 LEDs on devices to turn on constantly, if system already has 13 lighted LEDs on devices, MOM-4 will not turn on the LED and keep flashing even if the output of MOM-4 is activated.

### Installation

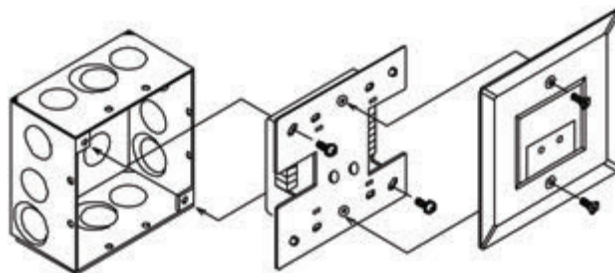


Figure 1: Installation into the compatible electrical box



## Setting the Address

Each addressable module, smoke sensor, heat detector and combination sensor/detector must have the address set before connecting the device to the SLC loop. The address is set using the hand held device programmer or the addressing feature on the control panel.

Before connecting a device to the SLC loop, take the following precautions to prevent potential damage to SLC or device. Verify the following:

1. Power to the device is removed.
2. Field wiring is correctly installed.
3. Field wiring has no open or short circuits.

Document discrepancies and notify appropriate personnel.

### CAUTION

There is a possibility that the relay in MOM-4 module has been accidentally set to “latched” position during shipment. THE SIGNAL LINE CIRCUIT (SLC) MUST BE CONNECTED BEFORE CONNECTING 24VDC. If power is applied to the terminals 24+ and 24- and the relay is latched, a short circuit of wires connected to terminals A+, A- may damage the module. If this should occur, the performance of the Addressable Module must be verified.

### CAUTION

SLC loop wiring (signal line circuit) is power limited. Power supply for terminals 24+ and 24- must be power limited, so that the wiring for terminals A+, A- is power-limited. All terminals should be wired in accordance with the requirements of NFPA 70 (NEC) and NFPA 72 (National Fire Alarm Code). Failure to follow the wiring diagrams in the following pages will cause the system to not operate as intended. For further information, refer to the control panel installation instructions.

## Wiring Diagram

The following modules can be used when the NACs are synchronized:

- SM-12/24 (Wheelock)
- DSM-12/24 (Wheelock)
- SMD10-3A (Amseco)

Note: Refer to respective Module manuals about connection method, connectable NACs

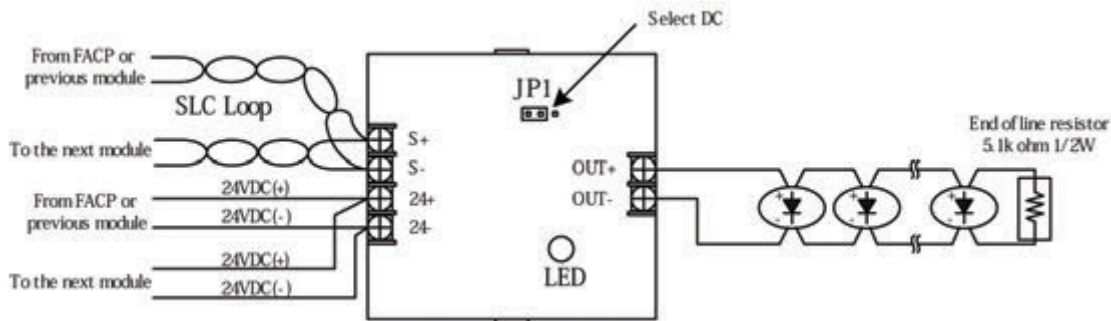


Figure 2: Output Connected to a Notification Appliance Circuit

When connecting the above-described module-to-module for NAC synchronization:

1. The interconnection between equipment shall be within a common enclosure.
2. The circuit connections extended to additional fire alarm control unit equipment shall be made within 20 feet (6.1m) of each other and be enclosed within conduit or equivalently protected against mechanical injury.

When NACs are connected to MOM-4 module, each MOM-4 module shall be separated by short circuit isolators (SCI) to avoid influence from a short-circuit of the SLC Signal Line Circuit.



## Wiring (Continued)

### Connection as a Releasing Module

- In the case of using a solenoid valve of NN100 system, connect wires to wiring cable #1 and #3 of the valve, and the soak time setting of the relevant address shall be configured as “5” seconds on the program.
- Only one Releasing Device can be connected per MOM-4 module.
- The Manual Release Function immediately activates the Suppression System in the same zone. It overrides Delay Time and Abort Functions for that zone.

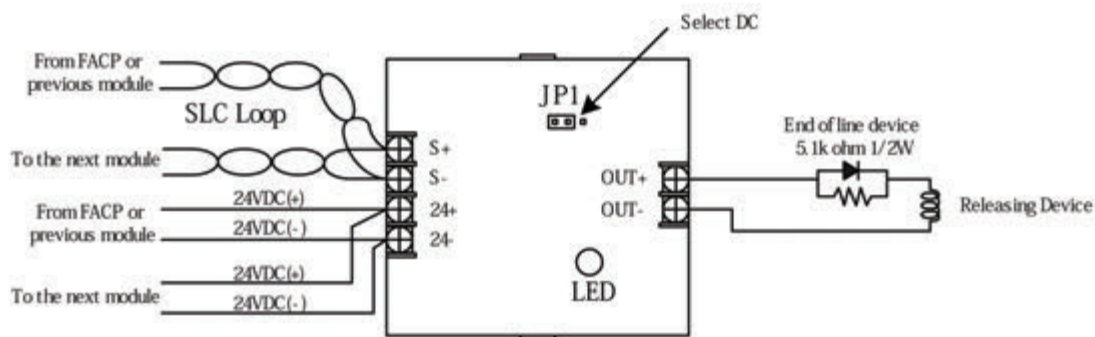


Figure 3: Output Connected to a Releasing Device

### **CAUTION**

Before connecting an output device, connect the module to the SLC loop and reset it with the FACP. This is necessary to ensure that the internal relay is unlatched. Connection of the module with this relay in the latched state will activate the output device possibly causing damage.



**Ordering Information**

Model Number	Description	P/N
MOM-4	Monitored Output Module	99239
N/A	EOL Resistor/Diode Assembly for Releasing Circuit	18712
SMD10-3A	Sync Module	18710

*Note: Approvals/Listings maintained by and manufactured by Potter Electric Signal Company.*

The seller makes no warranties, express or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose, except as expressly stated in the seller's sales contract or sales acknowledgment form. Every attempt is made to keep our product information up-to-date and accurate. All specific applications cannot be covered, nor can all requirements be anticipated. All specifications are subject to change without notice.



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