# ROME Series

**Relay Option Module Enclosure**

# Product Installation Document

PN 53530:B 9/14/2009 09-327

The ROME (Relay Option Module Enclosure, red) and ROME-B (black) is shipped with one ANN-BUS Relay Module already installed. The ROME Series provides mounting space for one additional Relay Module or one addressable Multi-Module.

## Relay Module

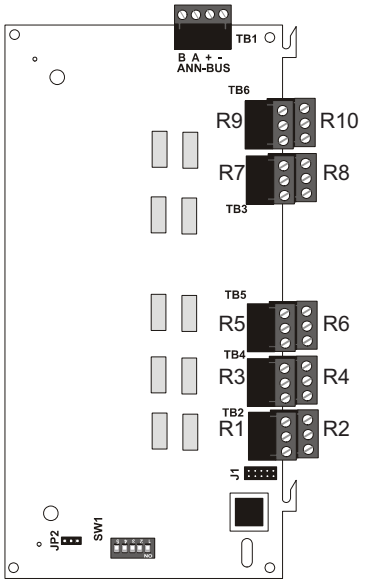
The Relay Module provides 10 programmable Form-C relays when used with a compatible FACP (Fire Alarm Control Panel). This document is provided as a quick reference. For more detailed programming information, refer to the appropriate FACP installation manual.

## Relay Module Specifications

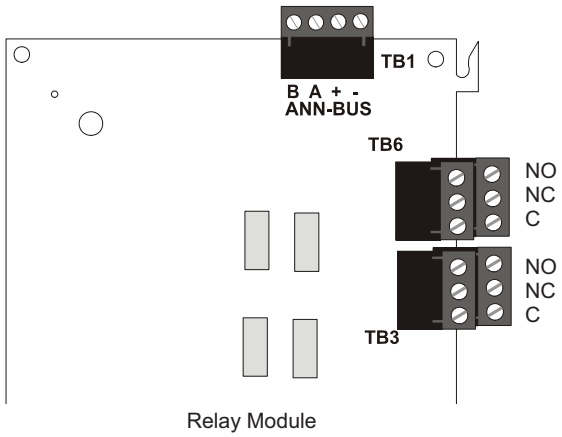
| | | |
|---|---|---|
| Operating Voltage | | 24 VDC |
| Max. Current @ 24 VDC | Alarm | 75 mA |
| | Standby | 15 mA |
| Operating Temperature | | 32° to 120° F (0° to 49° C) |
| Max. Wiring Distance from FACP (with 12 AWG wire) | | 1,250 ft. (380 m) |
| Relay Contact Ratings | | 2 amps @ 30 VDC (resistive) |
| | | 0.5 amps @ 30 VAC (resistive) |
| Indoor Use in Dry Location Only | | |

## Relay Designations and Terminals

The relay numbers and terminal designations are illustrated in the following illustration.




Relay Module




Relay Module

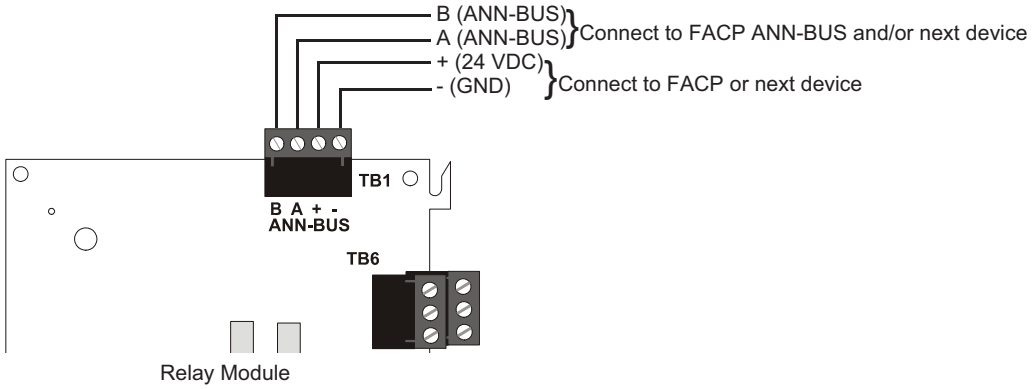
Normally Open, Normally Closed and Common terminals for each relay follow the same pattern as illustrated above.

## Wiring the Relay Module to an FACP

Refer to the following table and illustration for wiring connections.

1. All connections/sources are to be power-limited and supervised.
2. 12 - 18 AWG (0.75 - 3.25 $mm^2$) wire for 24 VDC circuit is acceptable. Refer to the appropriate FACP manual.
3. Power wire distance limitation is set by 1.2 volt maximum line drop from source to end of circuit.
4. Maximum distance from FACP to last ANN-BUS device must not exceed 1,250 feet (380 m). Refer to Wiring Distance Table in appropriate FACP manual for wire gauge and distance limitations.

| Relay Terminals (TB1) | FACP ANN-BUS Terminals |
|---|---|
| Terminal 1 (B) | B (ANN-BUS) |
| Terminal 2 (A) | A (ANN-BUS) |
| Terminal 3 (+) | (+) |
| Terminal 4 (-) | (-) |




## Setting Relay Module DIP Switches

Each ANN-BUS device requires a unique address. Relay Module DIP switch SW1 is used to set the address for the module. A maximum of 8 devices can be connected to the FACP ANN-BUS communication circuit. ANN-BUS device addresses do not need to be sequential and can be set to any number between 01 and 08. Note that 00 is not a valid address. The following illustrates the DIP switch settings for each address (ID Number):

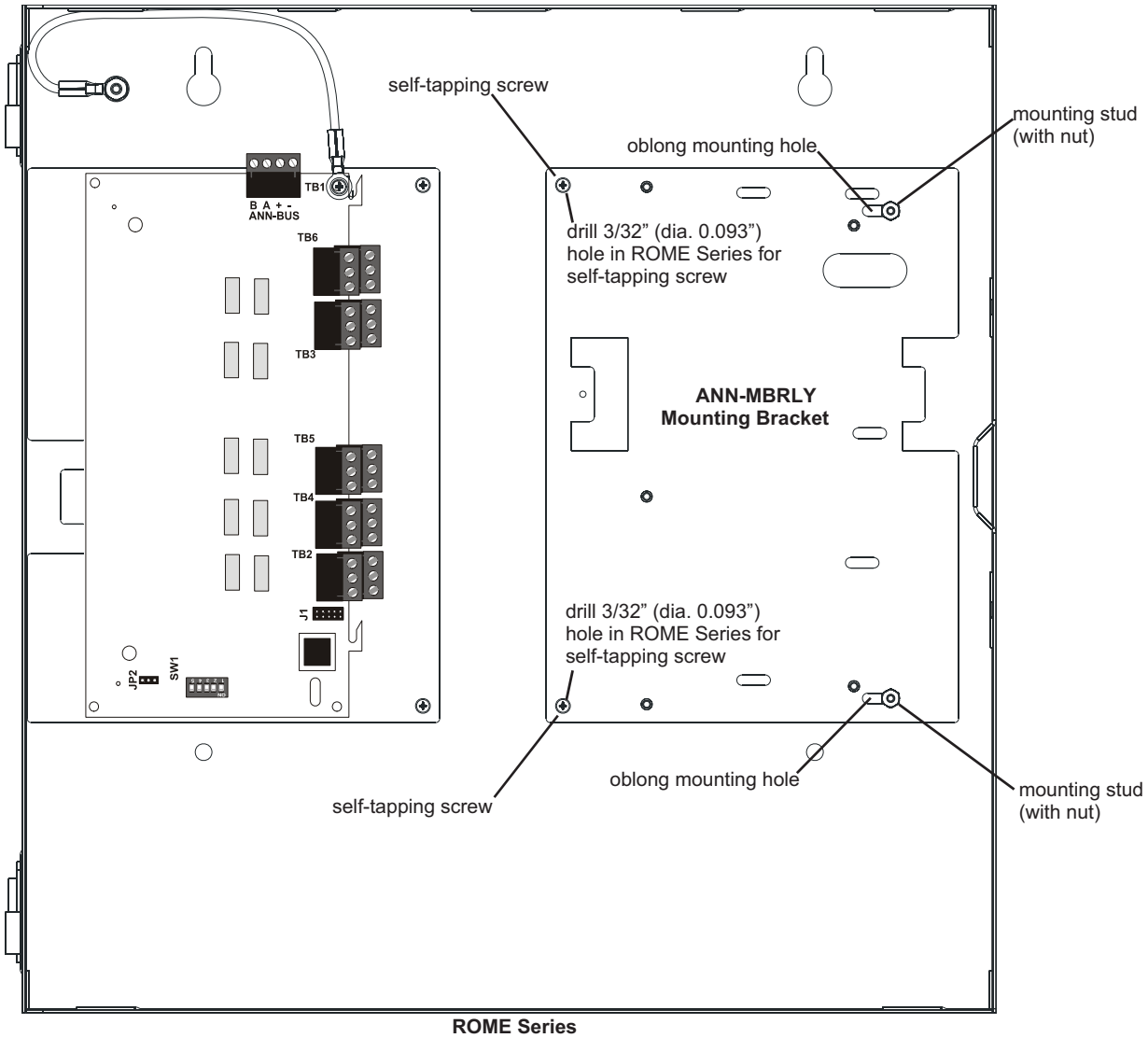


## Mounting an Optional Second Relay Module in the ROME Series

### ■ ANN-MBRLY Mounting Bracket Installation

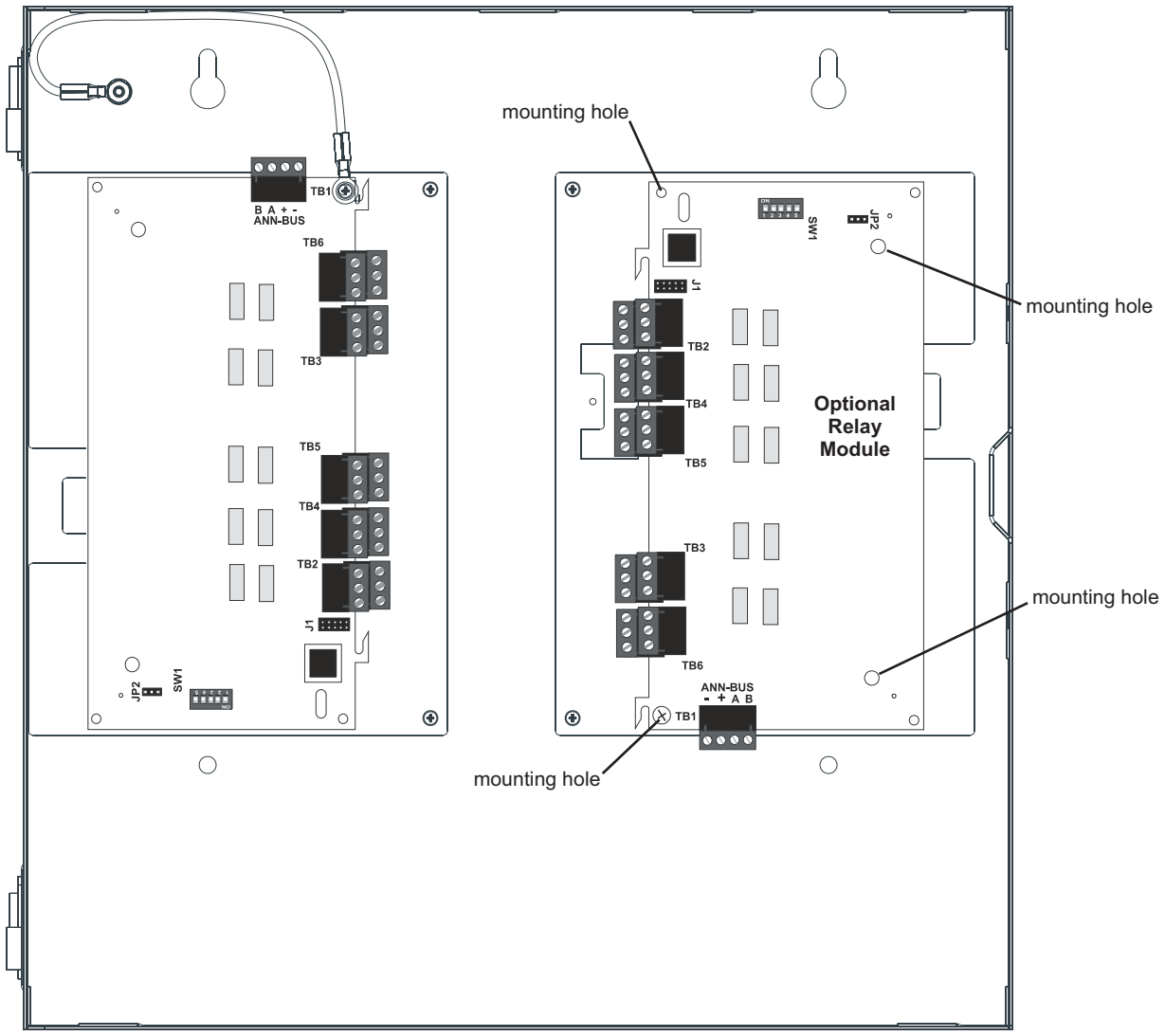
An optional second Relay Module can be mounted inside the ROME Series using the ANN-MBRLY mounting bracket. Two holes must be drilled in the enclosure to secure the ANN-MBRLY as described in the following steps:

1. Place the ANN-MBRLY mounting bracket flat against the inside back wall of the ROME Series, while positioning two oblong holes over the mounting studs as shown in the following illustration.
2. Make a mark on the ROME Series back wall using the two holes that will be used to secure the ANN-MBRLY as a guide.
3. Remove the ANN-MBRLY from the ROME Series and drill two 3/32" (dia. 0.093") holes in the locations marked in step 2. Note that these holes will be used to secure the ANN-MBRLY using the two supplied self-tapping screws.
4. Place the ANN-MBRLY mounting bracket oblong holes in position over the mounting studs and install the two supplied nuts, but do not tighten at this time.
5. Install the two supplied self-tapping screws in the locations indicated and secure the ANN-MBRLY to the ROME Series using the holes drilled in step 3.
6. Tighten the two nuts installed in step 4.



## ■ Relay Module Installation on ANN-MBRLY Mounting Bracket

1. Hold the Relay Module with the relays positioned to the left and install the Relay Module on the ANN-MBRLY mounting bracket by positioning the four module mounting holes over the four standoffs on the mounting bracket.
2. Secure the Relay Module to the ANN-MBRLY mounting bracket with the four supplied screws.
3. Set the SW1 DIP switches and connect the wiring as described in the previous sections.



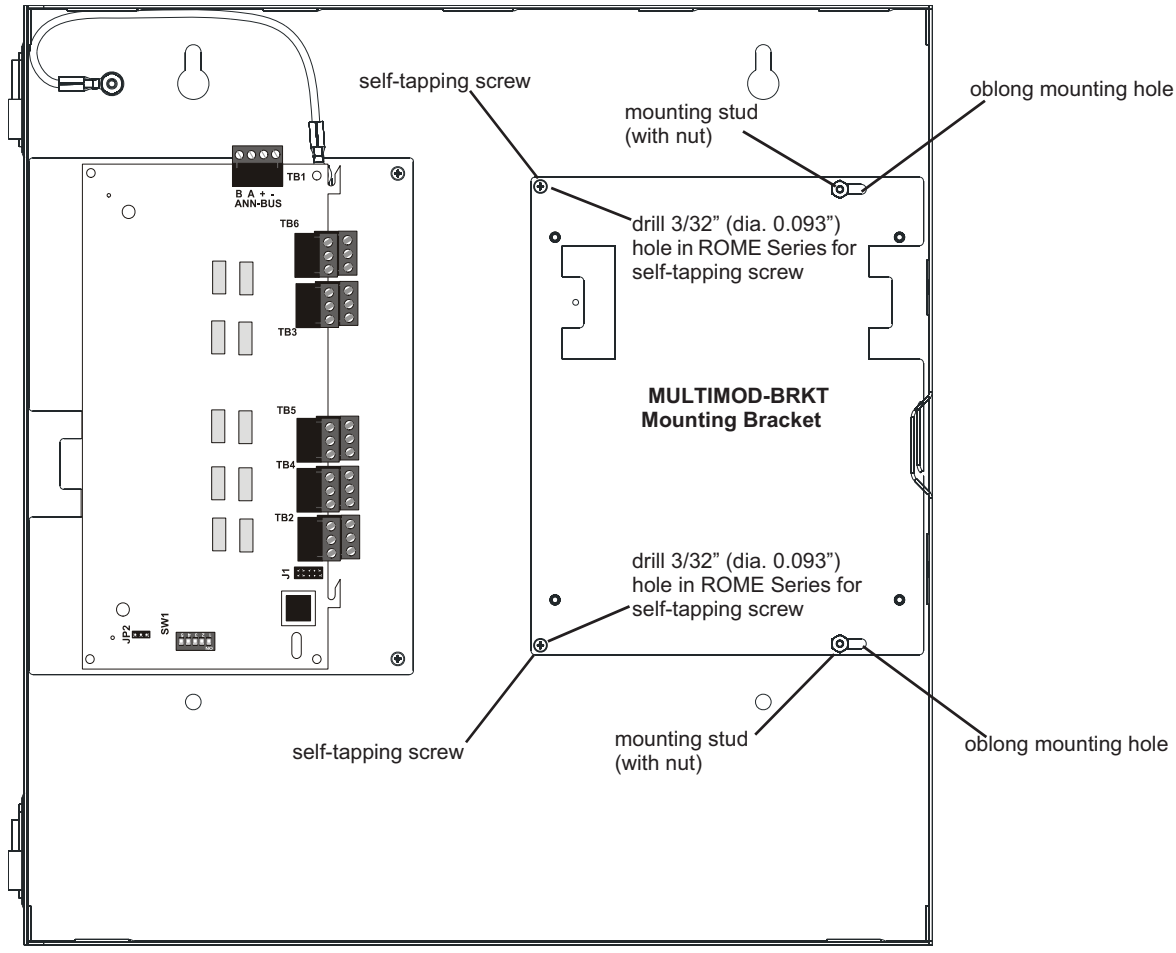

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## Mounting an Addressable Multi-Module in the ROME Series

### ■ MULTIMOD-BRKT Mounting Bracket Installation

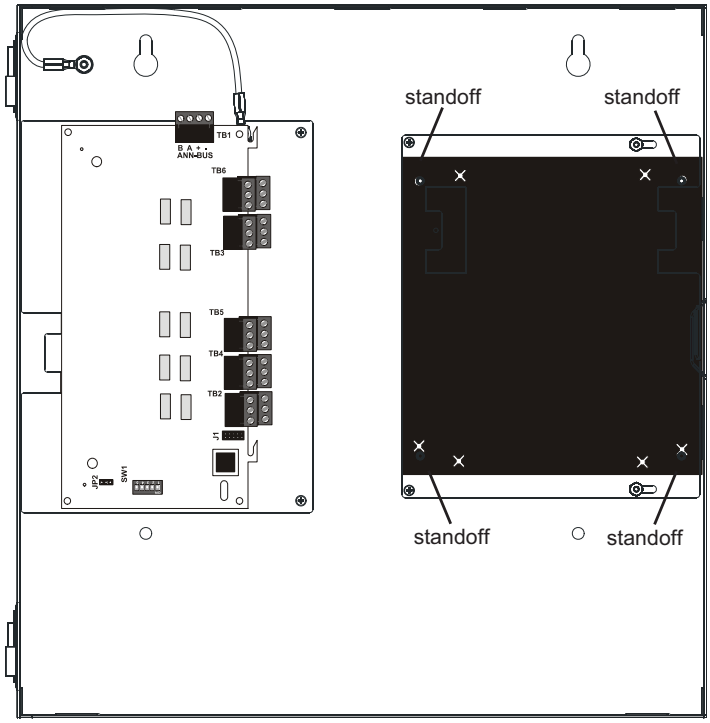
An addressable Multi-Module communicates with the FACP via the SLC loop. A Multi-Module can be installed inside the ROME Series enclosure using the MULTIMOD-BRKT module mounting bracket. Install the MULTIMOD-BRKT as described below.

1. Place the MULTIMOD-BRKT mounting bracket flat against the inside back wall of the ROME Series, while positioning two oblong holes over the mounting studs as shown in the following illustration.
2. Make a mark on the ROME Series back wall using the two holes that will be used to secure the MULTIMOD-BRKT as a guide.
3. Remove the MULTIMOD-BRKT from the ROME Series and drill two 3/32" (dia. 0.093") holes in the locations marked in step 2. Note that these holes will be used to secure the MULTIMOD-BRKT using the two supplied self-tapping screws.
4. Place the MULTIMOD-BRKT mounting bracket oblong holes in position over the mounting studs and install the two supplied nuts, but do not tighten at this time.
5. Install the two supplied self-tapping screws in the locations indicated and secure the MULTIMOD-BRKT to the ROME Series using the holes drilled in step 3.
6. Tighten the two nuts installed in step 4.




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7. Install the supplied module insulating pad on the MULTIMOD-BRKT bracket by aligning the four outer holes with the four standoffs on the bracket and pressing the pad onto the standoffs and flat against the bracket as illustrated below.




8. Install the addressable Multi-Module on the MULTIMOD-BRKT mounting bracket by positioning the four module mounting holes over the four standoffs on the mounting bracket.
9. Secure the addressable Multi-Module to the MULTIMOD-BRKT bracket with the four supplied mounting screws as illustrated below.

