

N-ANN-RLY Relay Module Product Installation Document

PN 53318:C 3/19/2018 18-123

1 General

The N-ANN-RLY 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 information, refer to the appropriate FACP installation manual.



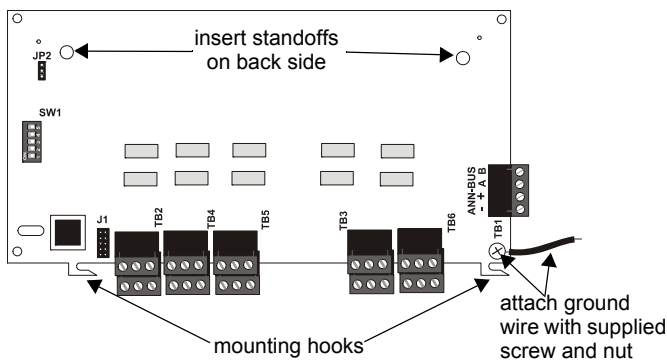
NOTE: Installation and wiring of this device must be done in accordance with NFPA 72 and local ordinances.

2 Specifications

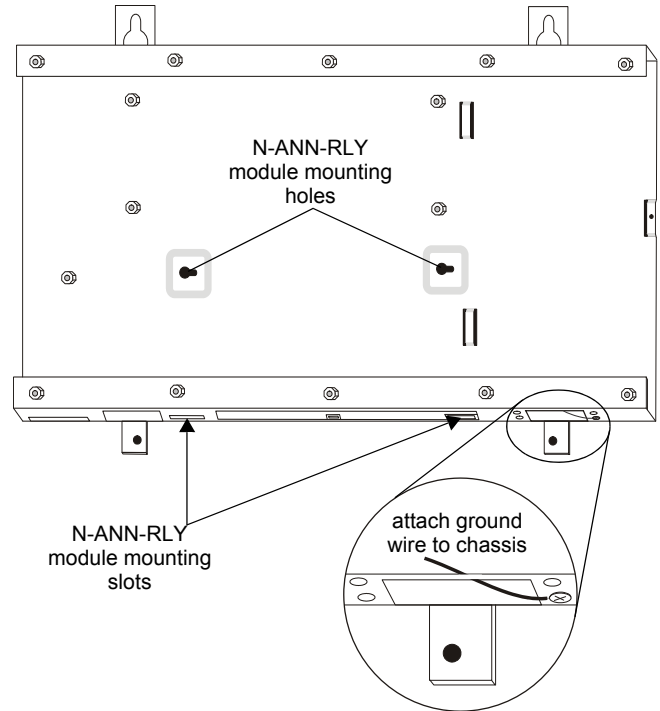
Operating Voltage		24 VDC
Max Current @ 24 VDC	Alarm	75 mA
	Standby	15 mA
Operating Temperature		32°-120°F (0°-49°C)
Max Wiring Distance from FACP (using 12 AWG wire)		1,250 ft. (380 m)
Relay Contact Ratings		2 A @ 30 VDC (resistive)
		2 A @ 30 VAC (resistive)
For Indoor Use in a Dry Location Only		

3 Mounting

The N-ANN-RLY module may be mounted inside the FACP main circuit board chassis or in the battery area of the enclosure using mounting bracket P/N: ANN-MBRLY. Refer to the following illustrations for installation information. Note that though the N-ANN-RLY can be installed without removing the main circuit board or chassis, installation will be easier if removed. When used with the FireWarden-100-2 (NFW2-100), the ANN-MBRLY mounting bracket is required for installation.



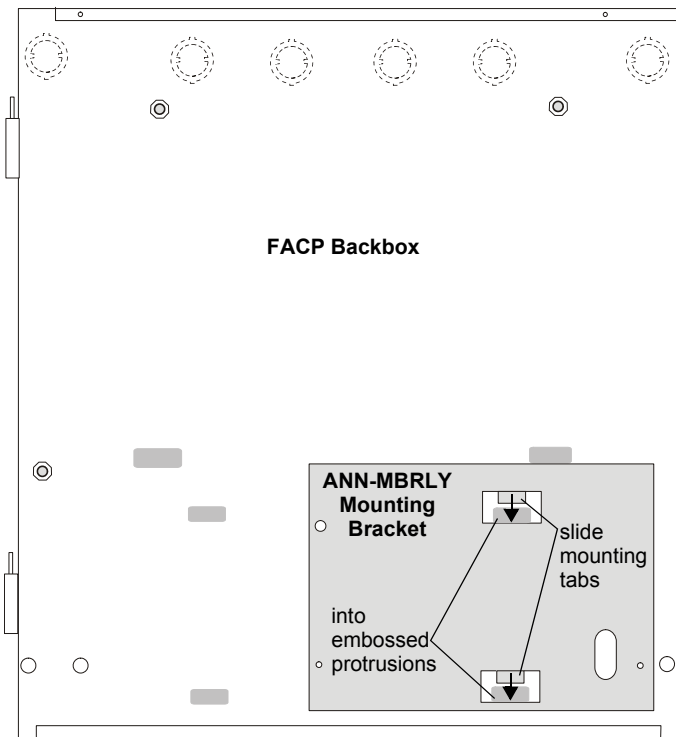
1. Install the two supplied snap-in standoffs into the backside of the N-ANN-RLY circuit board in locations indicated in illustration above.
2. Using supplied hardware, attach the ground wire using a screw and nut to location indicated in illustration above. Be sure to position the ground wire as shown to facilitate N-ANN-RLY installation.



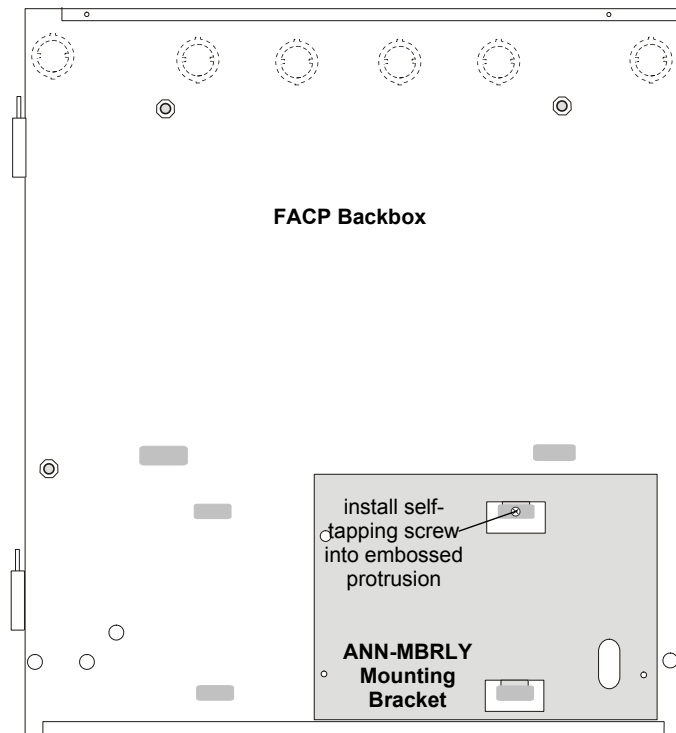
3. Position the N-ANN-RLY module in the chassis so that the two standoffs in the module are positioned over the wider portion of the mounting holes in the chassis and the mounting hooks on the module are sticking through the module mounting slots in the bottom of the chassis.
4. Slide the N-ANN-RLY module to the right to lock the module into place.
5. Attach the ground wire installed in step 2 to the chassis in the location indicated above.

4 Mounting in FACP Backbox Using the ANN-MBRLY Bracket

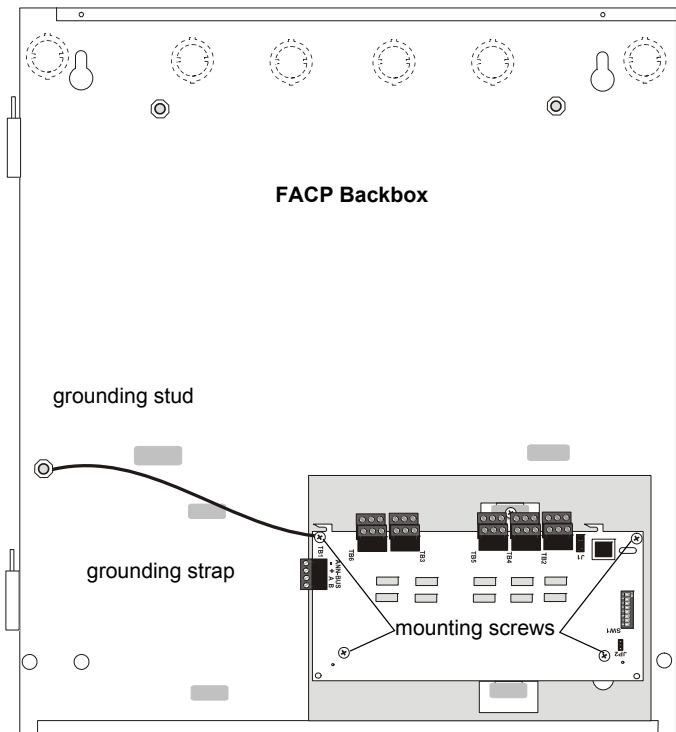
1. Place the ANN-MBRLY mounting bracket flat against the inside back wall of the FACP backbox. Position both bracket mounting tabs above the two embossed protrusions in the backbox and slide the tabs down into the protrusions as illustrated below.



2. Secure the ANN-MBRLY mounting bracket to the backbox by installing the supplied self-tapping screw into the top embossed protrusion/tab as illustrated below.



3. Install the N-ANN-RLY Relay Module on the ANN-MBRLY mounting bracket by positioning the four module mounting holes over the four standoffs on the mounting bracket.
4. Install one of the four supplied mounting screws and the supplied grounding strap in the top left mounting hole of the N-ANN-RLY module as illustrated below.
5. Secure the N-ANN-RLY module to the ANN-MBRLY bracket with the remaining three supplied mounting screws and tighten all mounting screws.
6. Attach the other end of the grounding strap to the backbox grounding stud, securing it with a nut as illustrated below.



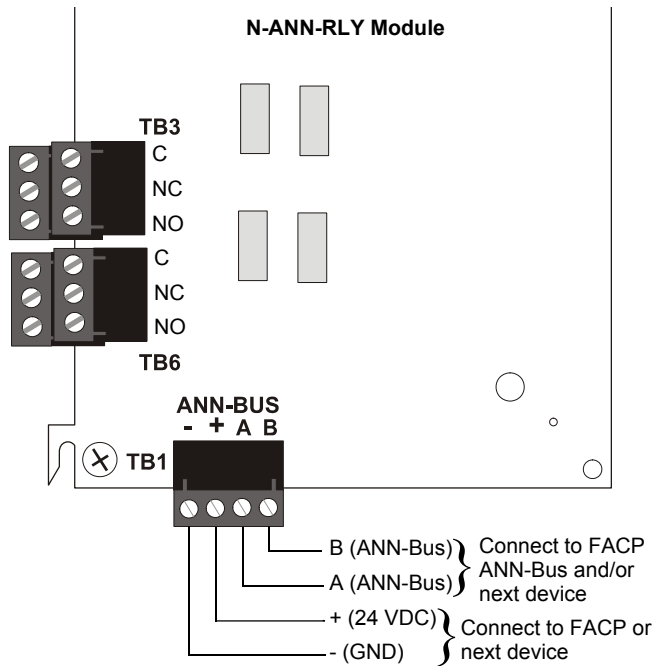
IMPORTANT! Only 7 AH or 18 AH batteries will fit in the FACP backbox when the ANN-MBRLY mounting bracket is installed. If 12 AH batteries are required, they must be installed in an external UL listed battery box such as the BB-17.

5 Wiring the N-ANN-RLY Module to the FACP

Refer to the table and diagram below for wiring connections.

N-ANN-RLY Terminals (TB1)	FACP ANN-Bus Terminals
Terminal 4 (-)	(-)
Terminal 3 (+)	(+)
Terminal 2 (A)	A (ANN-Bus)
Terminal 1 (B)	B (ANN-Bus)

Terminal Connections



Wiring the N-ANN-RLY Module to an FACP

Notes:

1. All connections/sources are to be power-limited and supervised.
2. 12 - 18 AWG (0.75 - 3.25 mm²) 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 the Wiring Distance Table in appropriate FACP manual for wire gauge and distance limitations.
5. Common, Normally Closed, and Normally Open terminals for each relay follow the same pattern as illustrated above.

6 Setting DIP Switches

Each ANN-Bus device requires a unique address. N-ANN-RLY relay module DIP switch SW1 is used to set the address for the annunciator.

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):

ID Number (Address) DIP Switch SW1

(not valid) 00	
01	
02	
03	
04	
05	
06	
07	
08	