Fire·Lite® Alarms
by Honeywell

ANN-RLY Relay Module Installation Instructions

The 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.

Specifications

Table 1: ANN-RLY Module Specifications

|		
Operating Voltage		24 VDC
Max. Current @ 24 VDC	Alarm	75 mA
	Standby	15 mA
Operating Temperature		0º to 49º C (32º to 120º F)
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		

Mounting

The 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:
1. ANN-RLY module can be installed without removing the main circuit board or chassis.
2. ANN-MBRLY mounting bracket must be used for the MS-9200UDLS.

Mounting in FACP Main Board Chassis
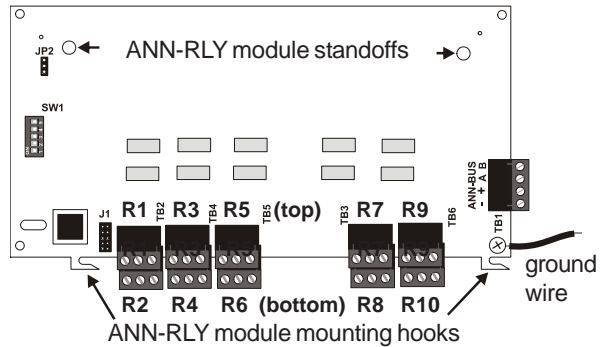
1. Install the two supplied snap-in standoffs into the backside of the ANN-RLY circuit board in locations indicated in illustration above.
2. Using supplied hardware, attach the ground wire using a screw and nut to location indicated in illustration above. Be sure to position the ground wire as shown to facilitate ANN-RLY installation.
3. Position the 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 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 below.
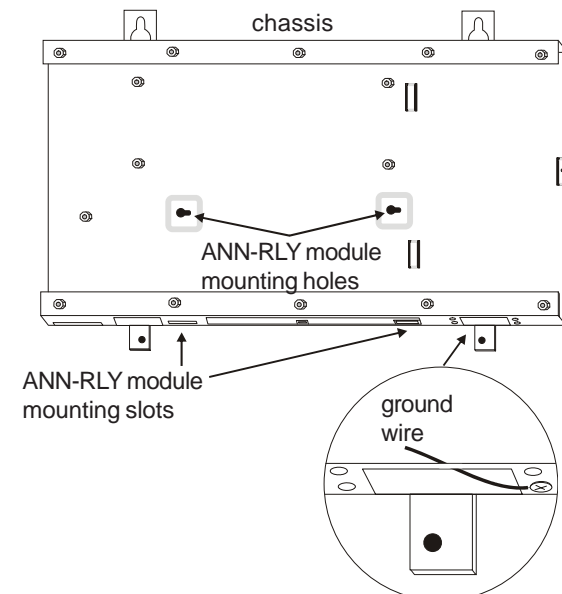
## Mounting in FACP Main Board Chassis Using the ANN-MBRLY bracket

1. Placing 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.

embossed protrusion — tab

ANN-MBRLY Mounting Bracket

embossed protrusion — tab

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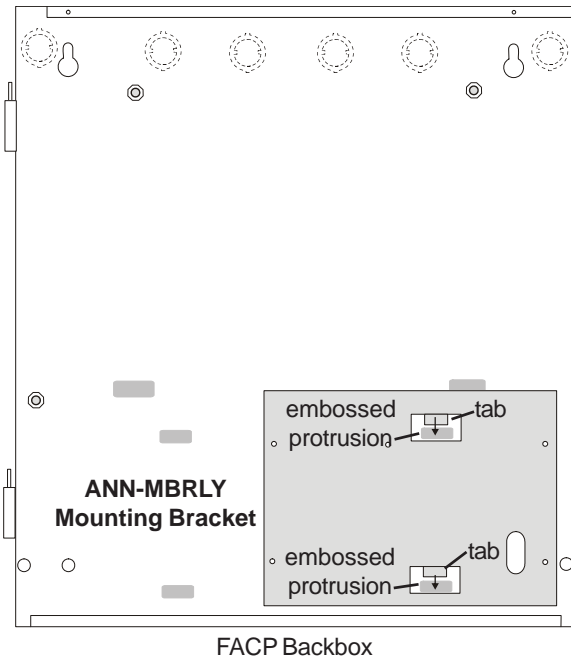
2. Secure the ANN-MBRLY mounting bracket to the backbox by installing the supplied self-tapping screw into the top embossed protrusion/tab as illustrated below.

self-tapping screw

embossed protrusion

FACP Backbox
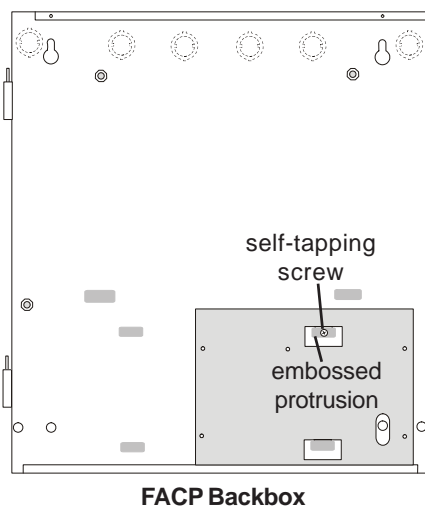
3. Install the ANN-RLY Relay Module on the ANN-MBRLY mounting bracket by positioning the four module mounting holes over the four standoffs on the mounting bracket.
4. Install one of the four supplied mounting screws and the supplied grounding strap in the top left mounting hole of the ANN-RLY module as illustrated below.
5. Secure the 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.


grounding stud

mounting screws

grounding strap

ANN-RLY Module

mounting screws
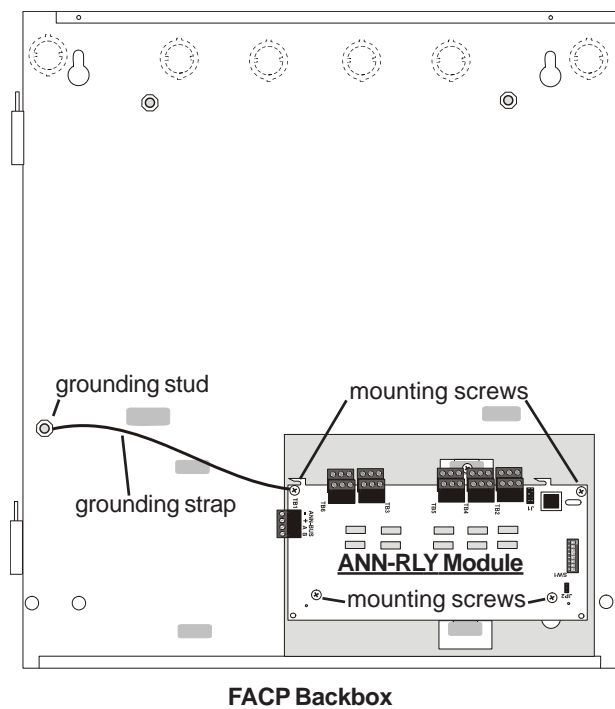
FACP Backbox

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 to be used, they must be installed in an external UL listed battery box such as the BB-17F.*

Wiring ANN-RLY Module to FACP

Refer to Table 2 and Figure 3 for wiring connections.

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

Table 2: Wiring ANN-RLY Module to FACP
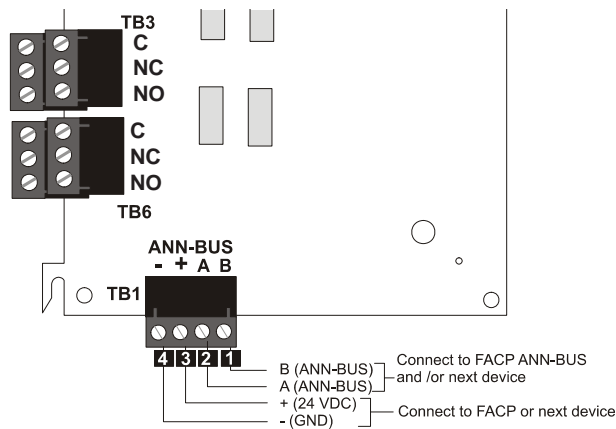
ANN-RLY Relay Module

Figure 3: Wiring 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 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.
5. Common, Normally Closed and Normally Open terminals for each relay follow the same pattern as illustrated above.

Setting DIP Switches

Each ANN-BUS device requires a unique address. 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**

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