

N-ANN-LED

Annunciator Module



Annunciators

General

The N-ANN-LED annunciator module provides LED annunciation of general system faults and input zones/points when used with a compatible Fire Alarm Control Panel (FACP). The N-ANN-LED module provides alarm (red), trouble (yellow) and supervisory (yellow) indication for up to ten input zones or addressable points. N-ANN-RLED has red LEDs only for alarm communication of up to 30 addressable points.

The N-ANN-LED is supplied standard with Canadian Firewarden FACPs as required by ULC. The Canadian part number are designated below with a (C).

The N-ANN-LED and the FACP communicate over a two-wire serial interface employing the ANN-BUS communication format. An additional two wires are used for 24-volt DC power. A single four-conductor unshielded cable may be used for both power and data communications.

Up to eight ANN-BUS devices may be connected to the ANN-BUS of each FACP.

Features

- N-ANN-LED connects to the ANN-BUS terminal on the FACP and requires minimal programming.
- Includes three LEDs for each zone: Alarm, Trouble and Supervisory. N-ANNRLED includes all red LEDs for alarm only annunciation.
- Compatible with the NFW-50(C), NFW2-100(C), SFP-5UD(C), SFP-10UD(C), RP-2001(C), RP-2002(C).
- Can be remotely located up to 6,000 feet (1,829 m) from the panel.
- May be powered by 24 VDC from the host FACP or by remote power supply (requires 24 VDC).

Specifications

- Maximum ANN-BUS Voltage: 24 VDC
- Maximum Current: **Alarm:** 68 mA **Standby:** 28 mA
- Maximum wiring distance from FACP: 6,000 ft. (1,829 m.)
- Ambient Temperature: 32°F to 120°F (0°C to 49°C)
- Relative Humidity: 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F)
- For use indoors in a dry location
- Connections to FACP are power-limited and supervised.
- 5.160" (13.11 cm.) high x 10.043" (25.51 cm.) wide x 1.77" (4.5 cm.) deep.

Agency Listings and Approvals

The listings and approvals below apply to the N-ANN-LED. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL:** S635
- **ULC:** S635 (N-ANN-LED only)
- **FM approved**
- **CSFM:** 7120-0028:0259
- **MEA:** 333-07-E
- **Fire Dept of NY:** COA #6177



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The ANN-BUS

POWERING THE DEVICES ON THE ANN-BUS FROM AUXILIARY POWER SUPPLY

ANN-BUS devices can be powered by an auxiliary power supply when available panel power is exceeded. See FACP manual for information.

ANN-BUS DEVICE ADDRESSING

Each ANN-BUS device requires a unique address (ID Number) in order to communicate with the FACP. A maximum of eight devices can be connected to the FACP ANN-BUS communication circuit. See the FACP manual for more information.

WIRE REQUIREMENTS

The N-ANN-LED connects to the FACP ANN-BUS communications circuit. To determine the type of wire and the maximum wiring distance, calculate the total worst case current draw for all modules on a single 4-conductor bus. Use the table on the following page to determine the maximum distance the modules can be located from the FACP. In general, the wire length is limited by resistance, but for heavier wire gauges, capacitance is the limiting factor. These cases are marked in the chart with an asterisk (*). Maximum length can never be more than 6,000 feet (1,800 m), regardless of gauge used.

Refer to the appropriate FACP manual for wiring details and proper settings.

Ordering Information

N-ANN-LED: annunciator module with alarm (red), trouble (yellow) and supervisory (yellow) indication for up to ten input zones or addressable points, includes module mounting bracket, metal cover and clear plastic screen, rubber display/label holder, screws for securing the metal cover and the backbox, black enclosure.

N-ANN-LED-R: same as above, with red enclosure.

N-ANN-RLED: annunciator module with alarm (red) indicators for up to 30 input zones or addressable points, includes black enclosure.

N-ANN-RLED-R: annunciator module with alarm (red) indicators for up to 30 input zones or addressable points, includes red enclosure.

Communication Pair Wiring Distance: FACP to last ANN-BUS Module				
Total Worst Case Current Draw (amps)	22 Gauge	18 Gauge	16 Gauge	14 Gauge
0.100	1,852 ft. (565 m)	4,688 ft. (1,429 m)	* 6,000 ft. (1,829 m)	* 6,000 ft. (1,829 m)
0.200	926 ft. (282 m)	2,344 ft. (715 m)	3,731 ft. (1,137 m)	5,906 ft. (1,800 m)
0.300	617 ft. (188 m)	1,563 ft. (476 m)	2,488 ft. (758 m)	3,937 ft. (1,200 m)
0.400	463 ft. (141 m)	1,172 ft. (357m)	1,866 ft. (569 m)	2,953 ft. (900 m)
0.500	370 ft. (113 m)	938 ft. (286 m)	1,493 ft. (455 m)	2,362 ft. (720 m)
0.600	309 ft. (94 m)	781 ft. (238 m)	1,244 ft. (379 m)	1,969 ft. (600 m)
0.700	265 ft. (81 m)	670 ft. (204 m)	1,066 ft. (325 m)	1,687 ft. (514 m)
0.800	231 ft. (70 m)	586 ft. (179 m)	933 ft. (284 m)	1,476 ft. (450 m)
0.900	206 ft. (63 m)	521 ft. (159 m)	829 ft. (253 m)	1,312 ft. (400 m)
1.000 (max.)	185 ft. (56 m)	469 ft. (143 m)	746 ft. (227 m)	1,181 ft. (360 m)

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N-ANN-80 80-Character Serial LCD Annunciator

General

The N-ANN-80 annunciator is a compact, backlit, 80-character LCD fire annunciator that mimics the Fire Alarm Control Panel (FACP) display. It provides system status indicators for AC Power, Alarm, Trouble, Supervisory, and Alarm Silenced conditions. The N-ANN-80 and the FACP communicate over a two-wire serial interface employing the ANN-Bus communication format. Connected devices are powered, via two additional wires, by either the host FACP or a remote UL-listed, filtered power supply. The N-ANN-80 is black; for white order N-ANN-80-W.

The N-ANN-80 displays English-language text of system point information including device type, zone, independent point alarm, trouble or supervisory status, as well as any custom alpha labels programmed into the control panel. It includes control switches for remote control of critical system functions. (A keyswitch prevents unauthorized operation of the control switches.)

Up to eight N-ANN-80s may be connected to the ANN-Bus of each FACP. Minimal programming is required, which saves time during system commissioning. The N-ANN-80 is compatible with NOTIFIER FACP's with an ANN-Bus, such as the NFW-50X.



Features

- Listed to UL Standard 864, 9th Edition
- Backlit 80-character LCD display (20 characters x 4 lines)
- Mimics all display information from the host panel
- Control switches for System Acknowledge, Signal Silence, Drill, and Reset
- Control switches can be independently enabled or disabled at the FACP
- Keyswitch enables/disables control switches and mechanically locks annunciator enclosure
- Keyswitch can be enabled or disabled at the FACP
- Enclosure supervised for tamper
- System status LEDs for AC Power, Alarm, Trouble, Supervisory, and Alarm Silence
- Local sounder can be enabled or disabled at the FACP
- N-ANN-80 connects to the ANN-Bus terminal on the FACP and requires minimal panel programming
- Displays device type identifiers, individual point alarm, trouble, supervisory, zone, and custom alpha labels
- Time-and date display field
- Surface mount directly to wall or to single, double, or 4" square electrical box
- Semi-flush mount to single, double, or 4" square electrical box. Use ANN-SB80KIT for angled view mounting
- Can be remotely located up to 6,000 feet (1,800 m) from the panel
- Backlight turns off during AC loss to conserve battery power but will turn back on if an alarm condition occurs
- May be powered by 24 VDC from the host FACP or by remote power supply (requires 24 VDC)
- Up to eight N-ANN-80s can be connected on the ANN-Bus

Controls and Indicators

- AC Power
- Alarm

- Trouble
- Supervisory
- Alarm Silenced

Specifications

- **Operating voltage range:** 18 VDC to 28 VDC
- **Current consumption @ 24 VDC nominal** (filtered and non-resettable): 40 mA maximum
- **Ambient temperature:** 32°F to 120°F (0°C to 49°C)
- **Relative humidity:** 93% ± 2% RH (non-condensing) at 32°C ± 2°C (90°F ± 3°F)
- 5.375" (13.65 cm.) high x 6.875" (17.46 cm.) wide x 1.375" (3.49 cm.) deep
- For use indoors in a dry location
- All connections are power-limited and supervised

The ANN-Bus

POWERING THE DEVICES ON THE ANN-BUS FROM AUXILIARY POWER SUPPLY

The ANN-Bus can be powered by an auxiliary power supply when the maximum number of ANN-Bus devices exceeds the ANN-Bus power requirements. See the FACP manual for more information.

ANN-BUS DEVICE ADDRESSING

Each ANN-Bus device requires a unique address (ID Number) in order to communicate with the FACP. A maximum of 8 devices can be connected to the FACP ANN-Bus communication circuit. See the FACP manual for more information.

WIRE REQUIREMENTS: COMMUNICATIONS CIRCUIT

The N-ANN-80 connects to the FACP ANN-Bus communications circuit. To determine the type of wire and the maximum wiring distance that can be used with FACP ANN-Bus accessory modules, it is necessary to calculate the total worst case current draw for all modules on a single 4-conductor bus. The total worst case current draw is calculated by adding the individual worst case currents for each module.

NOTE: For total worst case current draw on a single ANN-Bus refer to appropriate FACP manual.

WIRE REQUIREMENTS: POWER CIRCUIT

- 14 to 18 AWG (0.75 - 2.08 mm²) wire for 24 VDC power circuit is acceptable.
- All connections are power-limited and supervised.
- A maximum of eight N-ANN-80 modules may be connected to this circuit.

Ordering Options:

N-ANN-80: Black 80 character LCD Annunciator.

N-ANN-80-W: White, 80 character LCD Annunciator.

ANN-SB80KIT-B: Black surface mount backbox with angled wedge.

ANN-SB80KIT-W: White surface mount backbox with angled wedge.

Agency Listings and Approvals

The listings and approvals below apply to the N-ANN-80. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL:** S635
- **FM approved**
- **CSFM:** 7120-0028:0240
- **MEA:** 442-06-E Vol. 2



This document is not intended to be used for installation purposes.
We try to keep our product information up-to-date and accurate.
We cannot cover all specific applications or anticipate all requirements.
All specifications are subject to change without notice.

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Country of Origin: USA



N-ANN-RLY Relay Module

General

The N-ANN-RLY relay module provides 10 programmable Form-C relays when used with a compatible FACP (Fire Alarm Control Panel). The N-ANN-RLY module may be mounted inside the FACP main circuit board chassis or in the battery area of the enclosure using optional mounting bracket P/N: ANN-MBRLY. Reference Installation Instructions document #53318.

The N-ANN-RLY and the FACP communicate over a two-wire serial interface employing the ANN-Bus communication format. An additional two wires are used for 24-volt DC power. A single four-conductor unshielded cable may be used for both power and data communications.

Up to eight ANN-Bus devices may be connected to the ANN-Bus of each FACP.

Features

- N-ANN-RLY connects to the ANN-Bus terminal on the FACP and requires minimal programming
- Provides 10 programmable Form-C relays
- Ten Form-C relays can be programmed for various functions; Alarm, Trouble, Supervisory, AC Loss, Waterflow Delay, Input Zones and Silenceable Alarm.
- Compatible with the NFW-100X, NFW-50X, NFW2-100(C), NFW-50(C), RP-2001(C), RP-2002(C), SFP-10UD(C), and SFP-5UD(C)
- May be powered by 24 VDC from the host FACP or by remote power supply (requires 24 VDC)
- Up to eight ANN-Bus devices may be connected to the ANN-Bus of each FACP
- Listed to UL Standard 864, 9th Edition

Specifications

- Maximum ANN-BUS Voltage: 24 VDC
- Maximum Current:
 - **Alarm:** 75 mA **Standby:** 15 mA
- Ambient Temperature: 32°F to 120°F (0°C to 49°C)
- Relative Humidity: 93% ± 2% RH (non-condensing) at 32°C ± 2°C (90°F ± 3°F)
- For use indoors in a dry location
- Connections to FACP are power-limited and supervised.
- Relay Contact Ratings: 2 Amps @ 30VDC (Resistive) 0.5 Amps @ 30VAC (Resistive)

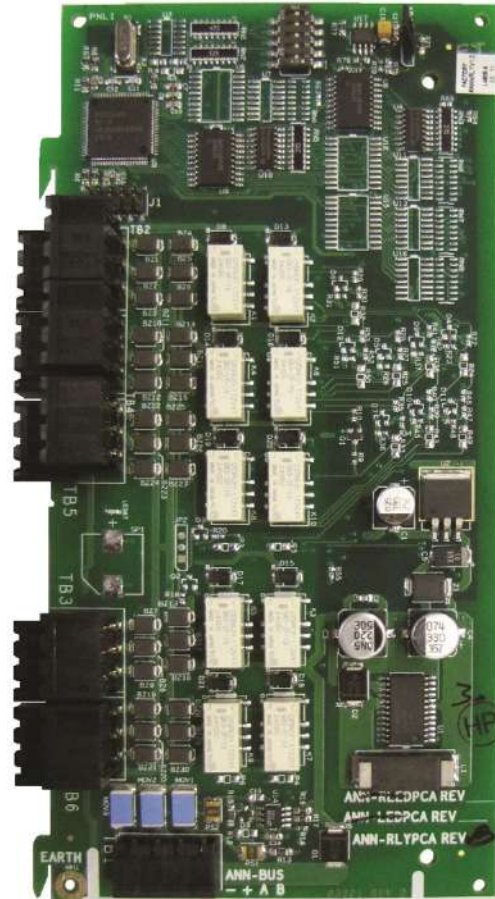
The ANN-Bus

POWERING THE DEVICES ON THE ANN-BUS FROM AUXILIARY POWER SUPPLY

ANN-Bus devices can be powered by an auxiliary power supply when available panel power is exceeded. See FACP manual for information.

ANN-BUS DEVICE ADDRESSING

Each ANN-Bus device requires a unique address (ID Number) in order to communicate with the FACP. A maximum of eight devices can be connected to the FACP ANN-Bus communication circuit. See the FACP manual for more information.



Ordering Information

- **N-ANN-RLY:** Relay Module provides 10 programmable Form C relays
- **ANN-MBRLY:** Optional mounting bracket; required for NFW2-100(C) applications
- **ROME:** Relay Option Module Enclosure, includes one ANN-RLY Relay module and one ANN-MBRLY bracket installed

Agency Listings and Approvals

The listings and approvals below apply to the FeaturedProduct. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL:** S635
- **FM Approved**
- **Fire Dept. of New York:** #COA 6177
- **CSFM:** 7120-0028:0259
- **MEA:** 333-07-E

N-ANN-I/O LED Driver Module

General

The N-ANN-I/O is an LED driver module that can be used in a wide variety of applications including as an interface with the Fire Alarm Control Panel (FACP) to drive most customized graphic annunciators. It comes in a plastic enclosure that may be mounted inside a custom annunciator or accessory cabinet and can drive up to 40 LEDs.

The N-ANN-I/O and the FACP communicate over a two-wire serial interface employing the ANN-Bus communication format. An additional two wires are used for 24-volt DC power. A single four-conductor unshielded cable may be used for both power and data communications.

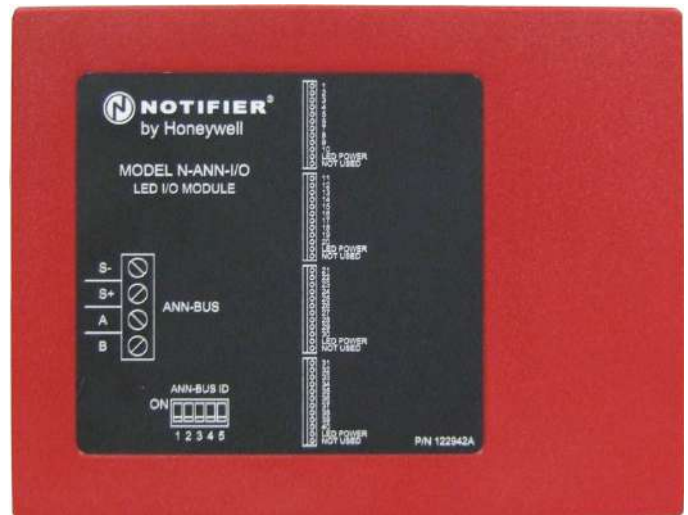
Up to eight ANN-Bus devices may be connected to the ANN-Bus of each FACP.

Features

- N-ANN-I/O connects to the ANN-Bus terminal on the FACP and requires minimal programming
- Each N-ANN-I/O module drives up to 40 LEDs
- Programmable to indicate activity for points or zones
- Compatible with the NFW-100X, NFW-50X, NFW2-100, NFW-50, RP-2001, RP-2002, SFP-5UD, and SFP-10UD
- Can be remotely located up to 6,000 feet (1,829 m) from the panel
- May be powered by 24 VDC from the host FACP or by remote power supply (requires 24 VDC)
- Up to eight ANN-Bus devices may be connected to the ANN-Bus of each FACP

Specifications

- Maximum ANN-Bus Voltage: 24 VDC
- Maximum Current:
 - **Alarm:** 200 mA, **Standby:** 35 mA, **Each LED:** 10mA
- Maximum wiring distance from FACP: 6000 ft. (1829 m.)
- Ambient Temperature: 32°F to 120°F (0°C to 49°C)
- Relative Humidity: 93% ± 2% RH (non-condensing) at 32°C ± 2°C (90°F ± 3°F)
- For use indoors in a dry location
- Connections to FACP are power-limited and supervised
- External measurements: 6.00" (15.2 cm.) high x 7.76" (19.7 cm.) wide x 1.46" (3.7 cm.) deep



Agency Listings and Approvals

The listings and approvals below apply to the N-ANN-I/O. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL:** S635
- **CSFM:** 7120-0028:0242
- **MEA:** 442-06-E Vol. 2

The ANN-Bus

POWERING THE DEVICES ON THE ANN-BUS FROM AUXILIARY POWER SUPPLY

ANN-Bus devices can be powered by an auxiliary power supply when available panel power is exceeded. See FACP manual for information.

ANN-BUS DEVICE ADDRESSING

Each ANN-Bus device requires a unique address (ID Number) in order to communicate with the FACP. A maximum of eight devices can be connected to the FACP ANN-Bus communication circuit. See the FACP manual for more information.