

# ANN-LED

## Annunciator Module



Annunciators

### General

The 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 ANN-LED module provides alarm (red), trouble (yellow) and supervisory (yellow) indication for up to ten input zones or addressable points. ANN-RLED has red LEDs only for alarm communication of up to 30 addressable points.

The ANN-LED is supplied standard with certain Canadian FACP's as required by ULC.

The 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

- 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.
- Compatible with the MS-9050UD, MS-5UD-3, MS-10UD-7, MRP-2001, MRP-2002, MS9200UDLS version 4.0 or greater, MS-9600LS and MS-9600UDLS.
- 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 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:** S2424
- **ULC:** S2424 (ANN-LED only)
- **FM approved**
- **CSFM:** 7120-0075:0222
- **MEA:** 333-07-E
- **Fire Dept of NY:** COA #6177



### 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 ANN-LED connects to the FACP ANN-BUS communication 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

**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 back-box, red enclosure.

**ANN-LED-W:** same as above, with gray enclosure and white keypad.

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

**ANN-RLED-W:** same as above, with gray enclosure and white keypad.

<b>Communication Pair Wiring Distance: FACP to last ANN-BUS Module</b>				
<b>Total Worst Case Current Draw (amps)</b>	<b>22 Gauge</b>	<b>18 Gauge</b>	<b>16 Gauge</b>	<b>14 Gauge</b>
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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For more information, contact Fire•Lite Alarms. Phone: (800) 627-3473, FAX: (877) 699-4105.  
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