

Addressable Fire Alarms Panels

E-FSA Series



E-FSA250

The Edwards Signaling E-FSA250 life safety system offers the reliability of analog/addressable fire detection for small to mid-sized applications. Built for long service, this system offers rotary device addressing, optional Ethernet® connectivity, and a full line of easy-to-configure option cards and modules.

The E-FSA250 provides one Class A or Class B analog/addressable device loop that supports up to 127 devices. A second 127-point loop may be added to the E-FSA250 to expand total system capacity to up to 254 device addresses. The panel includes four Class B NACs that can be configured as two Class A NACs.

The E-FSA250 supports a wide range of accessories and related equipment, including intelligent modules and pull stations, intelligent detectors, and bases remote annunciators and option cards that expand system capacity and extend system capabilities.

- Supports intelligent modules, pull stations, detectors, and bases
- Four Class B NACs or two Class A NACs
- Form C contacts for alarm and trouble, Form A for supervisory
- Rotary addressing on all intelligent addressable devices
- Optional Ethernet port for diagnostics, programming and system reports
- Two programmable switches with LEDs and custom labeling
- Supports horn silence over two wires and UL 1971-compliant strobe synchronization
- Standard Class A wiring
- 1,000-event panel history log
- Supports up to eight serial annunciators, (LCD, LED-only, and graphic interface)
- Use existing wiring for most retrofit applications
- Upload/download remotely or locally
- Two-level maintenance alert reporting
- Pre-alarm and alarm verification by point
- Adjustable detector sensitivity
- 4 x 20 character backlit LCD display
- Operating temperature range: 32°F to 120°F (0°C to 49°C)

Features and Specifications

- One loop (expandable to two) that supports up to 127 (expandable to 254) analog/addressable devices

Option Cards

E-FSA250 panels are supported by a complete line of modules and related equipment that enhance performance and extend system capabilities. Option cards plug directly into the control panel main circuit board or are connected to it with a ribbon cable. After installation, terminals remain accessible. The cabinet provides ample room for wire routing, keeping wiring neat at all times.

SA-ETH Ethernet Interface Card

The SA-ETH card provides a standard 10/100 Base T Ethernet network connection for connecting to an intranet, a local network, or the Internet. The card can be used to download configuration programming from the FSA-CU to the panel over the network.

The Ethernet card is installed on the plastic assembly and connects to the main circuit board via a ribbon cable.

XAL127 Loop Expander Card

The XAL127 Loop Expander Card provides an additional device loop on the control panel. The card expands the control panel's device capacity to 254 total device addresses, 127 per loop.

The card is compatible with Class B or Class A wiring. It is compatible with E-FSA250 control panels only.

The loop expander card connects to connector J7 on the main circuit board.

SA-DACT Dialer

The SA-DACT provides communications between the control panel and the central station over a telephone line system. It transmits system status changes (events) to a compatible digital alarm communicator receiver over the public switched telephone network. The dialer is capable of single, dual, or split reporting of events to two different account and telephone numbers. The modem feature of the SA-DACT can also be used for



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uploading and downloading panel configuration, history, and current status to a PC running the FSA-CU.

The SA-DACT queues messages and transmits them based on priority (alarm, supervisory, trouble, and monitor). Activations are transmitted before restorations.

The SA-DACT is installed on the plastic assembly and connects to the main circuit board via a ribbon cable.

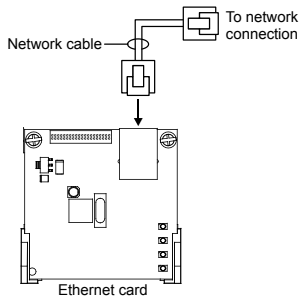
SA-232 RS-232 Interface

The SA-232 card provides an RS-232 interface with E-FSA250 panels. It can be used for connecting a printer to the control panel to print system events. The card also can be used for connecting a computer to download a configuration program from the FSA-CU to the control panel.

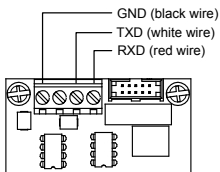
The RS-232 card is installed on the plastic assembly and connects to the main circuit board via a ribbon cable.

Technical Information

SA-ETH Wiring

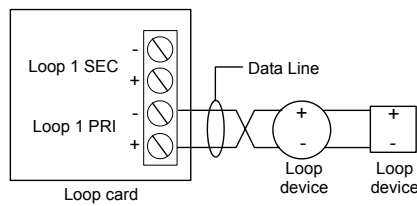


SA-232 Wiring

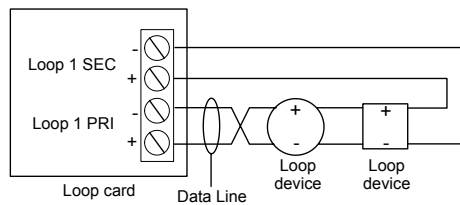


XAL127 Loop Expander Card

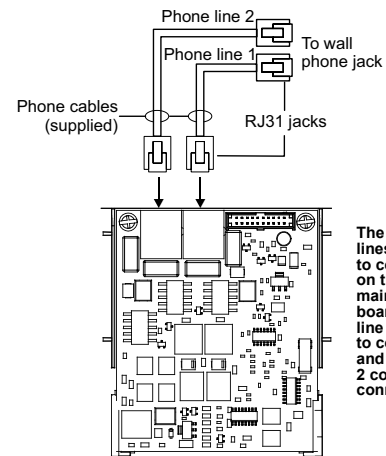
Class B Wiring



Class A Wiring



SA-DACT Wiring



The dialer phone lines connect to connectors on the dialer's main circuit board. Phone line 1 connects to connector J4 and phone line 2 connects to connector J1.

Ordering Information

| Description | Cat. No. | NAC Circuits | Maximum NAC Current | Aux Power Continuous Circuit | Aux Power Resettable Circuit | Includes Dialer | Auxiliary Contacts | Color |
|--|-------------------|------------------------------------|----------------------|------------------------------|------------------------------|-----------------|-----------------------------|-------|
| Life Safety System Panel, 254 Point Capacity: 1 loop, expandable to 2, Class A or B, each loop supporting up to 127 device addresses | E-FSA250RD | 4 Class B or 2 Class A, 2.5 A each | 6.0 A total @ 24Vfwr | 24V DC nominal at 0.5 A | 24V DC nominal at 0.5 A | Yes | 24V DC @ 1 A resistive load | Red |
| | E-FSA250R | 4 Class B or 2 Class A, 2.5 A each | 6.0 A total @ 24Vfwr | 24V DC nominal at 0.5 A | 24V DC nominal at 0.5 A | No | 24V DC @ 1 A resistive load | Red |
| | E-FSA250GD | 4 Class B or 2 Class A, 2.5 A each | 6.0 A total @ 24Vfwr | 24V DC nominal at 0.5 A | 24V DC nominal at 0.5 A | Yes | 24V DC @ 1 A resistive load | Gray |
| | E-FSA250G | 4 Class B or 2 Class A, 2.5 A each | 6.0 A total @ 24Vfwr | 24V DC nominal at 0.5 A | 24V DC nominal at 0.5 A | No | 24V DC @ 1 A resistive load | Gray |

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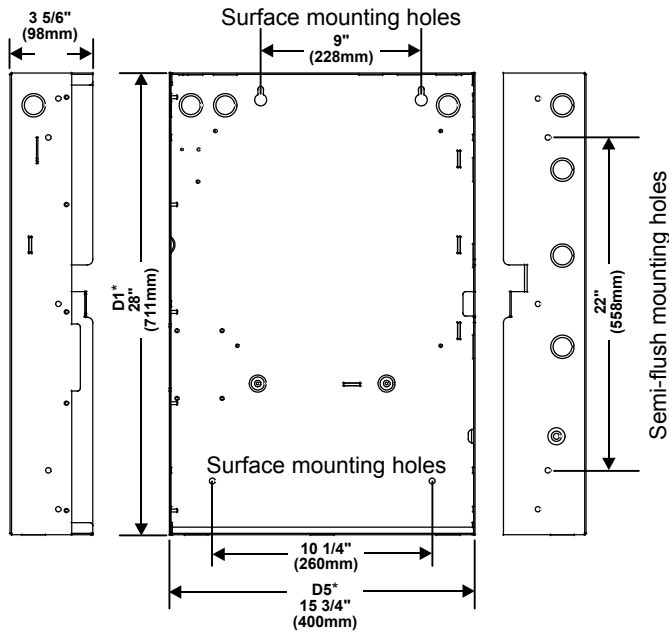
| Accessories | |
|---|----------|
| Description | Cat. No. |
| Flush Mount Trim - Black | SA-TRIM2 |
| Option Cards: | |
| Dual Line Dialer/Modem, supports Contact ID (SIA DC-05), mounts in cabinet on base plate. | SA-DACT |
| Serial Port (RS-232), for connection to printers and computers, mounts in cabinet to base plate | SA-232 |
| Ethernet Port, Slave, mounts in cabinet on base plate | SA-ETH |
| Loop Expansion Module. Adds second loop (127 devices) to E-FSA250 for a total capacity of 254 points. Mounts in cabinet on main board. | XAL127 |
| LED Annunciator Module, 16 groups, 2 LEDs per group with insertable labeling. Mounts in cabinet on E-FSA250 systems. | D16L-Fa |
| Annunciators: | |
| Remote Annunciator, 4X20 LCD and Common Indicators for displaying system status, mounts to standard 4" Square electrical box. White housing. | E-RLCD |
| Remote Annunciator, 4X20 LCD, Common Indicators and Common Controls for displaying system status, mounts to standard 4" Square electrical box. White housing. | E-RLCD-C |
| Remote Annunciator, Common Indicators for displaying system status, common controls & 16 groups w/2 LEDs each for zone display, mounts to standard 4" Square electrical box. White housing. | E-RLED-C |
| Remote Annunciator Zone expander, 24 groups of 2 LEDs each for display of alarm and trouble. Each with custom label area. Mounts to standard 4" electrical box. White housing. | RLED24 |
| Graphic Annunciator Driver, provides outputs for common indicators and 32 alarm/supv zones as well as inputs for common switches. Provided with a snap track for mounting in custom graphic enclosures. | GCI |

| Accessories | | (Continued) |
|--|--|-------------|
| Description | | Cat. No. |
| Remote Annunciator Cabinets and Accessories | | |
| Remote Annunciator Enclosure, key locked with plexiglass window for one RLCD(C) or RLED(C). | | RA-ENC1 |
| Remote Annunciator Enclosure, key locked with plexiglass window with space for 2 of either RLCDx, RLEDx or RLED24. | | RA-ENC2 |
| Remote Annunciator Enclosure, key locked with plexiglass window with space for 3 of either RLCDx, RLEDx or RLED25. | | RA-ENC3 |
| Keypad, single gang, provides key operated enable or disable of common controls on RLCD or RLED units. | | RKEY |
| Surface Mount Box - for R-Series Annunciators | | LSRA-SB |
| Programming Tools:FSC/FSA Series configuration and diagnostics utility | | FSA-CU |

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Weights and Dimensions

| Cat. No. | Approx. Shipping Weight (lb.) |
|------------|-------------------------------|
| E-FSA250RD | 35.00 |
| E-FSA250R | 35.00 |
| E-FSA250GD | 35.00 |
| E-FSA250G | 35.00 |
| SA-TRIM2 | 2.50 |
| SA-DACT | 0.50 |
| SA-232 | 0.25 |
| SA-ETH | 0.25 |
| XAL127 | 0.25 |
| D16L-Fa | 0.25 |



* Add 1-1/2 in. (38.1mm) for trim kit.