# Affordable

## FireShield® Conventional Fire Alarm Control Panels

**GE** imagination at work

# cost

## Reliability you've come to expect from the industry's leader in fire alarm technology.

*FireShield* fire alarm control panels demonstrate that value doesn't have to come at the expense of quality, and that small building owners don't have to settle for second-rate fire protection. With *FireShield* comes a full lineup of advanced features designed expressly for new and retrofit projects that cry out for simplicity, yet need state-of-the-art protection. These two attributes aren't mutually exclusive in a fire alarm control panel. At least not now.

*FireShield* takes the very best conventional fire alarm technology available today and blends it with features that benefit installers, contractors, building owners and occupants to provide an effective and economical solution for all small building needs.

**Building owners** like *FireShield*'s price and the peace of mind that comes from knowing their property is protected by equipment engineered and manufactured by the same people responsible for fire protection in some of the most valuable buildings on the planet. For over 130 years GE Security has been identified with the highest standards in property protection. Our name, and the quality and excellence it represents, stands behind every *FireShield* control panel.

*FireShield* remote zone and system annunciators mount to standard electrical boxes and present a clean, finished appearance that blends discreetly with any decor.

# effective

**Building occupants** are big fans of *FireShield* even though they may not be aware of its existence. The fact that they don't have to deal with annoying false alarms and buzzing control panels is all it takes to win them over. In fact, *FireShield*'s invisibility is one of its strongest selling points. Designed for rock-solid reliability, these panels are intended to be taken for granted, but can be depended upon to leap into action the moment they're needed.

**Installers** benefit big time from *FireShield*'s simple setup and intuitive programming. Its ingenious combination circuits support waterflow switches and associated tamper switches on a single zone, giving installers the flexibility they need to get the job done quickly and efficiently. Front panel programming is also a snap, and one-person device testing – in either audible or silent mode – is like a walk in the park.

**Contractors** get all the advantages *FireShield* offers to building owners, occupants, and installers – plus the added bonus that goes along with knowing that call-backs are a thing of the past, and that every *FireShield* installation is a successful installation. Meeting the needs of so many applications with so few parts to stock means that inventories can be kept low while job turnover remains high. That's a combination that makes *FireShield* the stock-in-trade for successful contractors everywhere.

With *FireShield* there is no longer any reason to skimp on fire protection – no matter how small the job is. Full-featured and flexible, *FireShield* meets the individual needs of small building applications and leaves plenty of room to accomodate upgrades and renovations far into the future.

- Easy to install
- Simple to operate
- No-fuss programming
- Integrated DACT/Dialer
- 3, 5, and 10 IDC models

## CONTROL PANELS

| CONTROL PANELS | | FS1004 | | | | | | FS502 | | | FS302 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Initiating Device Circuits - IDCs (Available combinations shown at right) | Class B | 10 | 8 | 6 | 4 | 2 | 0 | 5 | 3 | 1 | Three Class B IDCs |
| | Class A | 0 | 1 | 2 | 3 | 4 | 5 | 0 | 1 | 2 | |
| Notification Appliance Circuits - NACs (Available combinations shown at right) | Class B | 4 | | 2 | | 0 | | 2 | | 0 | Two Class B NACs |
| | Class A | 0 | | 1 | | 2 | | 0 | | 1 | |
| Power Supply | | 3.0 A expandable to 6.0 A | | | | | | 3.0 Amps total | | | 2.0 Amps total |
| NAC Voltage Rating | | 24 Vfwr | | | | | | | | | |
| Maximum NAC current | | 1.5 Amps each, 2.5 Amps total for NAC 1 + 2 or 3 + 4 5.0 A w/optional transformer | | | | | | 1.5 Amps each 2.5 Amps total | | | 1.5 Amps each 2.5 Amps total |
| AC Input            120 Vac 60 Hz 230 Vac 50/60 Hz | | 1.6 A w/optional transformer 0.8 A w/optional transformer | | | | | | 0.8 Amps 0.4 Amps | | | 0.8 Amps 0.4 Amps |
| Base Panel Current Draw     Standby... Alarm... | | 145 mA 250 mA | | | | | | 120 mA 170 mA | | | 110 mA 145 mA |
| Panel Battery Charge Capacity | | Up to two 18 Ah batteries | | | | | | Up to two 18 Ah, 7 Ah max in cabinet | | | |
| Auxiliary Current | | 0.5 Amps max. May be programmed as resetable. | | | | | | | | | |
| Auxiliary Output | | 19 to 25.7 Vdc | | | | | | | | | |
| IDC Alarm Current | | 1.5 mA (Consult detector compatibility list p/n 3100468 for maximum detectors per circuit) | | | | | | | | | |
| IDC Circuit | | Maximum loop resistance: 13 Ohms; Maximum loop capacitance: 0.03 µF | | | | | | | | | |
| IDC Operating Voltage | | 16.3 to 25.7 Vdc | | | | | | | | | |
| UL Detector ID | | 100 | | | | | | | | | |
| Alarm Contact (normally open) | | 30 Vdc @ 1 A (resistive load) | | | | | | | | | |
| Trouble Contact (From C) | | | | | | | | | | | |
| Supervisory Contact (normally open) | | | | | | | | | | | |
| Operating Environment | | Temperature: 32 - 120° F (0 - 49° C); Humidity: 5 - 93% RH, non-condensing | | | | | | | | | |
| Terminals (wire gauge) | | 18 - 12 AWG (0.75 mm² - 2.5 mm²) | | | | | | | | | |
| Asynchronous Serial Communications | | Maximum resistance: 13 Ohms; Maximum capacitance: 0.03 uF | | | | | | | | | |

## REMOTE ANNUNCIATORS

| REMOTE ANNUNCIATORS | FSRSI Remote System Indicator | FSRZI - A Remote Zone Indicator | |
|---|---|---|---|
| Maximum per System | All panels: 2 | 10 zone panel: 4 | 3 or 5 zone panel: 2 |
| Current Requirements | Standby: 12 mA;  Alarm: 48 mA | Standby: 8 mA | Alarm: 35 mA |
| Voltage Range | Minumum: 21 Vdc;  Maximum: 25 Vdc | | |
| Maximum Circuit Capacitance | 0.03 µF | | |
| Maximum Circuit Resistance | 13 Ohms | | |
| Wire Size | 18 - 12 AWG (0.75 mm² -2.5 mm²) | | |
| Mounting | ANSI/NEMA OSI - 1996 1-3 gang electrical box | | |
| Operating Environment | Temperature: 32 - 120 °F (0 - 49 °C); Humidity: 93% RH, non-condensing | | |

## DACT / DIALER

| DACT / DIALER | |
|---|---|
| Receivers | Supports two receivers with two phone numbers each |
| Communications Protocol | Contact ID (SIA DC - 05), 4/2 (SIA DC - 02 P3) |
| Programming | Front panel controls or PC with appropriate software |
| Telephone Line Connection | Two RJ31X (plug-to-plug) cords supplied with DACT |
| Telephone Lines | Two or one loop start lines on the public switched telephone network. Pulse or DTMF |
| Telephone Wall Connector | RJ31X / CA31X equiv or RJ38X / CA38X equiv. |
| Communications Compliance | Communications Canada CS-03; FCC / CFR 47 Parts 15 & 68; NFPA 72; UL 864; ULC S527-M87 |
| Operating Environment | Temperature: 32 - 120° F (0 - 49° C); Humidity: 93% RH; non-condensing |
| Current Requirements | Standby: 40 mA;  Alarm: 60 mA |

## REMOTE RELAY MODULE

| REMOTE RELAY MODULE | Configured for Zone Mode | Configured for Common Mode |
|---|---|---|
| Maximum per System | 10 zone panel: 4;  3 or 5 zone panel: 2 | All panels: 2 |
| Current Requirements | Standby: 8 mA;  Alarm: 65 mA | Standby: 30 mA;  Alarm: 41 mA |
| Voltage Range | Minimum: 18 Vdc; Maximum: 27 Vdc | |
| Maximum Circuit Capacitance | 0.03 µF | |
| Maximum Circuit Resistance | 13 Ohms | |
| Wire Size | 18 - 12 AWG (0.75 mm² - 2.5 mm² ) | |
| Mounting | Single FSRRM mounts in plastic track (included) or up to four FSRRMs in an FSRRM-S1111* track ordered separately. FSRRMs should be installed in an MFC-A or other listed fire alarm enclosure. | |
| Operating Environment | Temperature: 32 - 120 °F (0 - 49 °C); Humidity: 93% RH, non-condensing | |
| Dimensions | 2-3/4" W x 3-3/8" H x 1-1/2" D (65.9 mm W x 85.7 mm H x 38.1 mm D) | |

# Everything you need.
# Nothing you don't...

Programming buttons discreetly hidden from view

Fully integrated DACT/dialer supports uploading or downloading of system configuration, status, and event history, and also acts as a 32-character alphanumeric display.

NACs programmable by zone and individually selectable for continuous, temporal, or Genesis independent horn control outputs.

On-board relays for Alarm, Supervisory and Trouble

IDCs support EC Series detectors.

Easy access terminal blocks

Expandable Power Supply

Combination Waterflow and Supervisory IDCs.

IDC or NAC pairs convertible to single Class A circuits



SYSTEM NORMAL
04/18/02      11:00

ALARM  TROUBLE  SUPVR  POWER  DISABLE
ANNUN   BATT    GND    WALK   ALARMS
TROUBLE TROUBLE FAULT  TEST   SILENCED

ALARM  TROUBLE  SUPVR
1    Lobby
2    1st Floor
3    2nd Floor
4    3rd Floor
5    Elevator
6    Kitchen
7    Basement
8    Electrical
9    Stairwell
10   Warehouse

NAC 1   West side
NAC 2   East side
NAC 3   Basement
NAC 4   Elevator

**FireShield**

**Optional Features:**

City Tie and Reverse Polarity Modules
Remote System and Zone Indicators
Remote Relay Module

DACT/Dialer
Trim ring for semi-flush mounting
Wallboxes available with red finish

# field devices



**EC Series Conventional Detectors...**
An outstanding price/performance buy, these heat and photoelectric detectors offer the kind of reliability you've come to expect from GE Security.



**Genesis Horns and Strobes...**
Ultra-slim, single- and multi-candela strobes, horns and combination devices that bring high-performance features and eye-pleasing elegance to every application.

# accessories

In addition to the Genesis and EC product lines, GE Security products include a wide selection of equipment to meet all your small building life safety needs, including...

- Duct Smoke Detectors
- Ionization Smoke Detectors
- Optical Beam Smoke Detectors
- Hazardous Location Fire Alarm Stations
- Hazardous Location Heat Detectors
- Outdoor Strobes and Horns
- Hazardous Location Strobes
- Chimes and Chime-Strobes
- Bell-Strobe Plates
- Fire Alarm Bells
- Single Stroke Chimes
- Lamp Stations
- Multi-Candela Strobes
- Horns and Sirens
- Multiple Tone Signals
- Hazardous Location Bells, Horns and Sirens

- Hazardous Location Multiple Tone Signals
- Hazardous Location Strobes
- Remote Booster Power Supplies
- Weatherproof Backboxes
- Alphanumeric Pager Interfaces
- Fire Alarm Pull Stations
- Key-operated Fire Alarm Stations
- Rechargeable Batteries
- Detector Wire Guards
- Manual Station Guards
- ADA Manual Station Relocators
- Electromagnetic Door Holders
- Call for Assistance Kits
- Multi-Voltage Control Relays
- Heavy Duty Power Relays
- Manual Override Relays

imagination at work