

Simplex

Analogue Addressable Fire Alarm System /
Voice Evacuation System

UL / FM Listed Fire Alarm System

Auth. Distributors



EDWARDS

United Technologies

Analogue Addressable Fire Alarm System /
Voice Evacuation System

UL / FM Listed Fire Alarm System

Auth. Distributors



Auth. Distributors



ARGUS SECURITY
intelligent fire solutions



Wireless Fire Alarm System



FIRETRACE[®]
International
Automatic Fire Suppression System

Authorised Distributors :

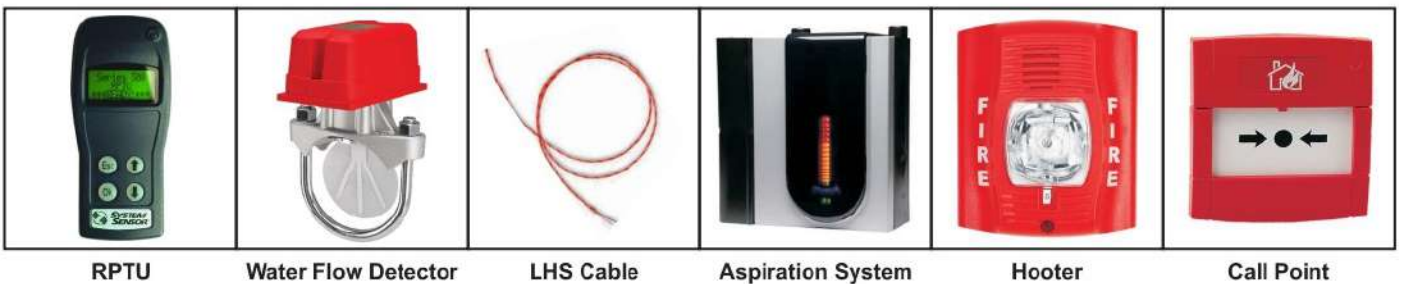


Analogue Addressable Fire Alarm System
LPCB Approved Fire Alarm System

VESDA Aspirating Smoke Detector System

Product Overview

- ✦ Out-of-the-box installation and commissioning
- ✦ Ultrasonic airflow sensing
- ✦ Laser-based absolute smoke detection
- ✦ Pre-engineered pipe network designs
- ✦ Programmable alarm thresholds
- ✦ Clean air barrier optics protections
- ✦ Instant recognition display
- ✦ Instant Fault Finder™
- ✦ AutoLearn™ Smoke
- ✦ AutoLearn™ Flow
- ✦ Field service access door
- ✦ Multiple event logging (in separate logs), up to 18,000 events
- ✦ Offline/online configuration capability



Honeywell

Public Address & Voice Evacuation System



SMOKE ALARMS



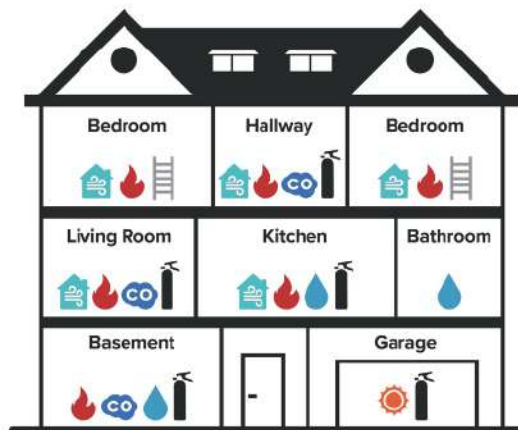
Three out of five home fire deaths take place in homes that did not have properly working smoke alarms.* This is mostly due to dead or missing batteries, or the device has never been replaced and is expired. A smoke alarm, like any home appliance, should be updated and maintained.

Take these steps to help protect your family:

- You need working **smoke alarms** or detectors on every level of your home (including basement), in hallways, and both inside and outside every sleeping area.
- **Interconnected alarms** provide whole-home alarm activation. When one alarm sounds, they all do. So, if one goes off upstairs, you'll hear it downstairs.
- **Test alarms weekly.** It's easy, you usually just press the test button on its face, but consult the manual if you don't know how or search online for your alarm's manufacturer.
- **Replace smoke alarms** every ten years.
- **When the alarms sound,** get outside and stay outside. Call 9-1-1 once you're out there.

How to help protect your home

For more information on fire safety and prevention, visit Kidde.com or NFPA.org.



HAZARD TYPES

- Indoor Air Quality Monitor
- Smoke Alarm
- Carbon Monoxide Alarm
- Water Leak + Freeze Detector
- Heat Alarm
- Fire Extinguisher
- Escape Ladder



Learn more about Kidde's commitment to helping protect every moment for everyone at causeforalarm.org.



The ONYX[®] Series



The Ultimate
in Fire Protection
Technology



Loop units

– a wide range covering your basic fire detection needs

We provide a wide range of loop units for our fire detection systems. Our detectors, manual call points, I/O units, control units and alarm units are developed and approved according to European directives (CPD) requiring EN 54 compliance and other appropriate worldwide regulations.

The loop units are available both with and without SelfVerify function. SelfVerify solves all issues of manual maintenance, leaving time consuming and costly physical testing redundant. With AutoSafe SelfVerify®, the system checks all detectors, interfaces, connections and cables – from detector chamber to alarm output – every single day.

Not only does the system test whether a detector is capable of provoking

an alarm, it even verifies the sensitivity of every detector with a calibrated signal. The SelfVerify system ensures that each detector always responds to the correct alarm level. In the event of irregularities, the display on the operating panel will accurately pinpoint the source of any problem.

SelfVerify ensures that you have the safest and most reliable fire safety system available – a system ensuring optimal detection.



Fire Alarm Systems

Bosch Security Systems

Intelligent detection. Superior protection.

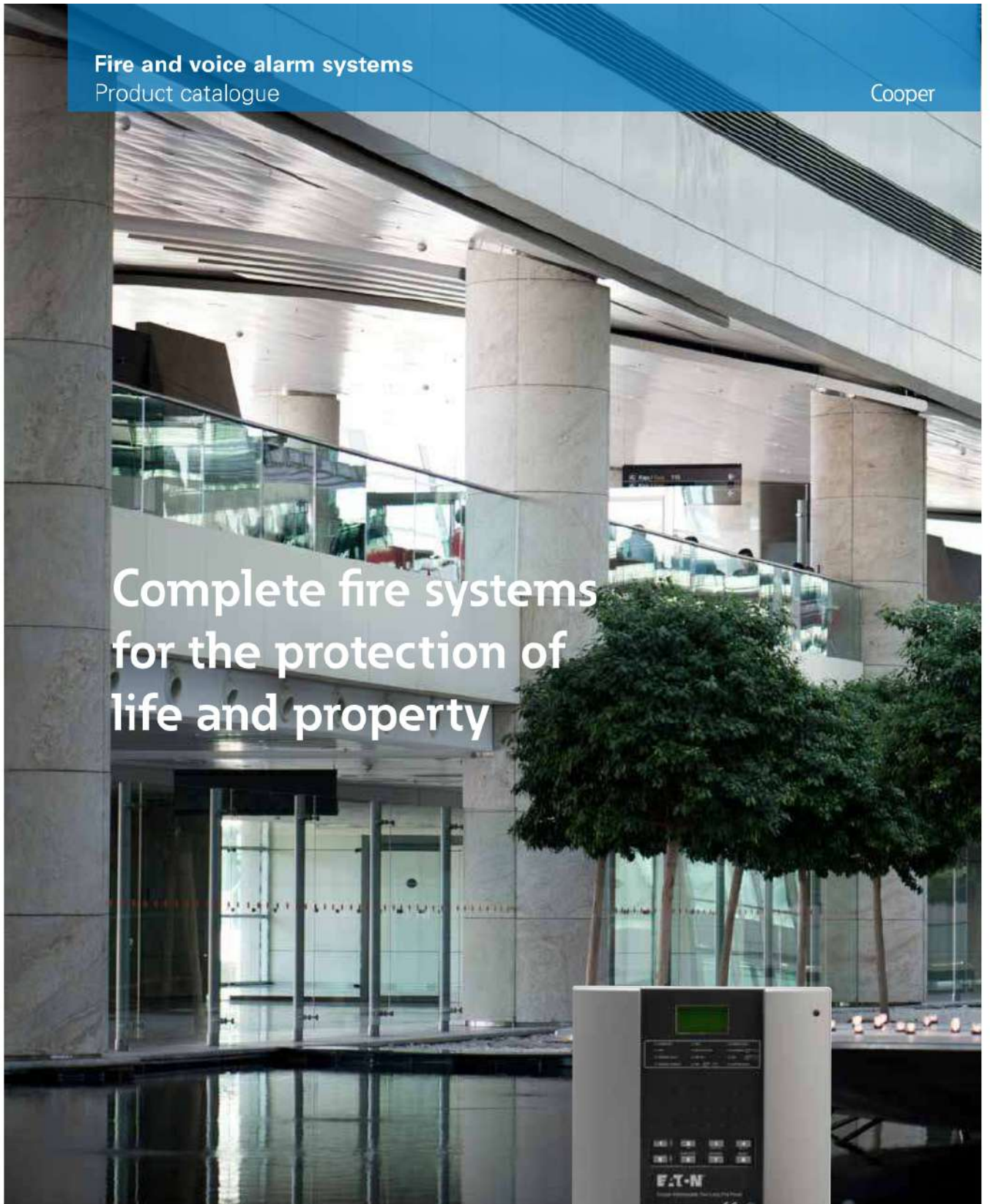


BOSCH

Invented for life

www.boschsecurity.com

Complete fire systems
for the protection of
life and property



EATON
Powering Business Worldwide



High performance interoperability means that EST3 can network with EST3X control panels — extending the reach of high-end features into applications once thought too small to be cost-effective for such advanced technology.



Only the strong survive.



Product Catalog
April 2019

Fire Alarm Systems



Addressable Fire Alarm Control Panels

Fire-Lite Alarm's innovative, addressable control panels offer a wide range of capabilities to provide superior value and flexibility. They are easy to install and program with notification appliance circuit (NAC) synchronization and enable emergency personnel to quickly locate a fire. The built-in LiteSpeed™ protocol ensures the fastest possible device response times to help reduce property damage and save lives.



Endurance Series ES-50X and ES-200X

- Single SLC that provides support for 50 (ES-50X) or 198 (ES-200X) addressable devices.
- Upload/download panel programming database and flash firmware with USB thumb drive.
- Support for addressable multi-criteria fire and CO detector.
- 4 programmable function keys to save time.
- Built-in Class-A capability for all 4 NACs; no optional card required.
- Trouble indication for SLC devices not programmed.
- Integrated SWIFT display driver and annunciator built-in to panel.
- Notification appliance circuits have built-in sync for the industry's leading manufacturers including System Sensor®, Wheelock®, and Gentex®.

MS-9600LS and MS-9600UDLS

- Up to 159 detectors and 159 control/monitor modules. (total of 318 devices) per SLC (636 with SLC-2LS option card).
- LiteSpeed protocol for SLC communication polls 10 devices at a time and operates on standard, unshielded wire.
- Auto-programmable function reduces installation time.
- Advanced fire technology includes sensitivity testing and automatic drift compensation.
- 4 programmable Class B and 2 Class A NACs.

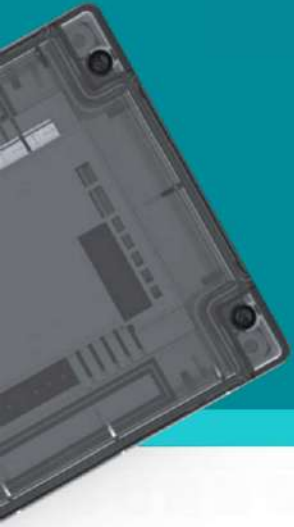


Fire Detection & Alarm System

One-stop Fire Solutions



HOCHIKI
World Class Leaders in Fire Detection Since 1918



PRODUCT CATALOGUE

Fire Detection Solutions

FS SERIES FLAME DETECTORS

FS24X PLUS ADVANCED FLAME DETECTOR

Honeywell's FS24X Plus 3IR flame detector responds to hydrocarbon and hydrogen fires in a solid field of view, providing fast and reliable protection against a wide range of fires.

Enhance your overall fire and gas safety by deploying reliable flame detection that can see through rain, fog and smoke better than other technologies. Designed for demanding industrial applications, the FS24X Plus helps businesses protect people, plants, and processes should a detectable fire occur.



FEATURES

- WideBand IR Technology
- Selectable detection sensitivities
- 90° cone of vision; 120° cone of vision (50% on axis range)
- Real-time clock for accurate time dating of events
- FirePic – pre-fire event data storage
- Event log with date and time stamp
- HART® and Modbus communication standard
- Sink, Source or Isolated 4-20 mA analog output
- Alarm, Fault and Auxiliary relays
- Automatic optical path and electronic self-test
- Wide operating temperature range
- Electronics module with components protection for easy plug-in terminations and field installation
- Two 3/4" NPT or M25 conduit entries
- Aluminum or stainless steel housing
- FM, ATEX, CE mark approvals
- IEC61508 SIL 2 Certified
- FlameManager software for programming, diagnostics, and downloading of FirePics and event log

BENEFITS

- Delivers robust flame and fire protection
- Maintains coverage while operating in challenging, low-visibility conditions, due to it has advanced solid-state, wide-band sensors
- Uses advanced diagnostics, including window clarity, to maintain site protection
- Enables simple mechanical installation when combined with the included sunshade and SM4 mounting bracket (a marine-version mount is also available)
- Allows quick electrical installation, with its two cable inlets and plug in connections
- Quick and easy to set up with the included PC software
- Integrates easily into your systems because it has multiple user-selectable outputs, including 4-20mA, Relays, HART® and Modbus
- Clearly communicates current status, even from a distance, with a high-visibility LED HALO ring: Green (Normal), Yellow (Fault/Warning) or Red (Alarm)

- Requires minimal maintenance for trouble-free operation; internal diagnostics and warnings drive maintenance; simple test lamp allows quick and easy testing at distance (no need to climb to the instrument); replaceable electro-optics modules enable convenient field replacement

MARINE CERTIFICATIONS

- ABS
- Lloyds
- BV
- DNV
- MED
- USCG

4. Sensepoint XCD



LEL, C3H8, CH4, H2S, CO, CO2, H2, NO2, O2



The Sensepoint XCD range provides comprehensive monitoring of flammable, toxic and oxygen gas hazards in potentially explosive atmospheres, both indoors and outdoors. Users can modify detector operation using the LCD and magnetic switches without ever needing to open the unit. This enables one-man, non-intrusive operation and reduces routine maintenance time and costs.

One-Stop Shop

- Flammable (catalytic or infrared), toxic and oxygen Versions available
- New and retrofit applications
- Suitable for indoor or outdoor use
- Stainless steel or aluminium explosion-proof housing options
- IP66 as standard

Proven and Reliable Sensor Technology

- Surecell™ electrochemical Sensors
- Poison immune infrared Sensors
- Poison resistant catalytic bead Sensors
- Long life Sensors

Global Approvals

- Global approvals for US, Canada, Latin America, Europe, China, Korea, and more
- Compliant with UL, INMETRO, ATEX, IECEx, CSA, KTL, PA, GB and CCCF standards

Easy to Use

- User friendly and intuitive tri-colour backlit display with digits, bar graph and icons
- Fully configurable via magnetic switches
- Selectable sink or source 4-20 mA output
- Auto-inhibit during maintenance
- Modbus RTU communications for remote diagnostics/configuration

Cost Effective

- Common transmitter platform
- Minimal training required
- Reduced spares
- Non-intrusive, one-man operation
- Plug-in Sensor replacement
- Modbus multi drop option offers cabling savings

Simple Installation

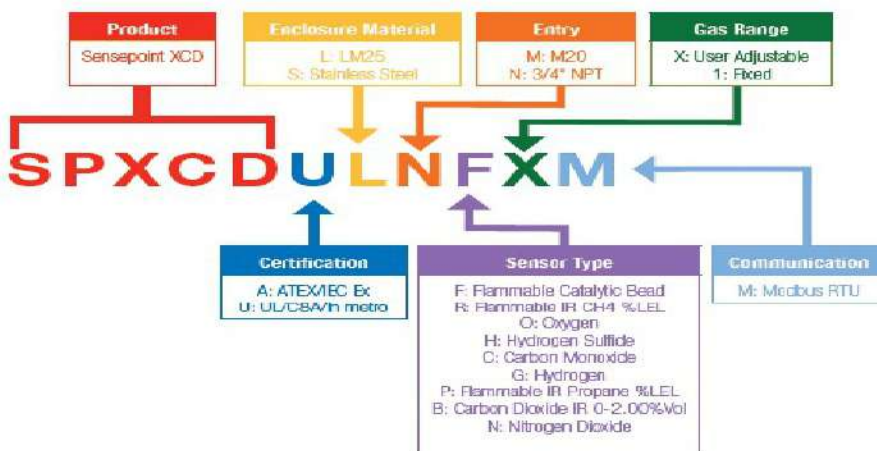
- Plug-in display module removes to give access to terminal area
- Integral Mounting bracket
- 2 x M20 or 3/4 in. NPT Cable/conduit entries (certification dependent)
- Removable plug/socket type terminal blocks for ease of wiring
- Sink/source switch to suit preferred wiring topology

Range of Optional Accessories

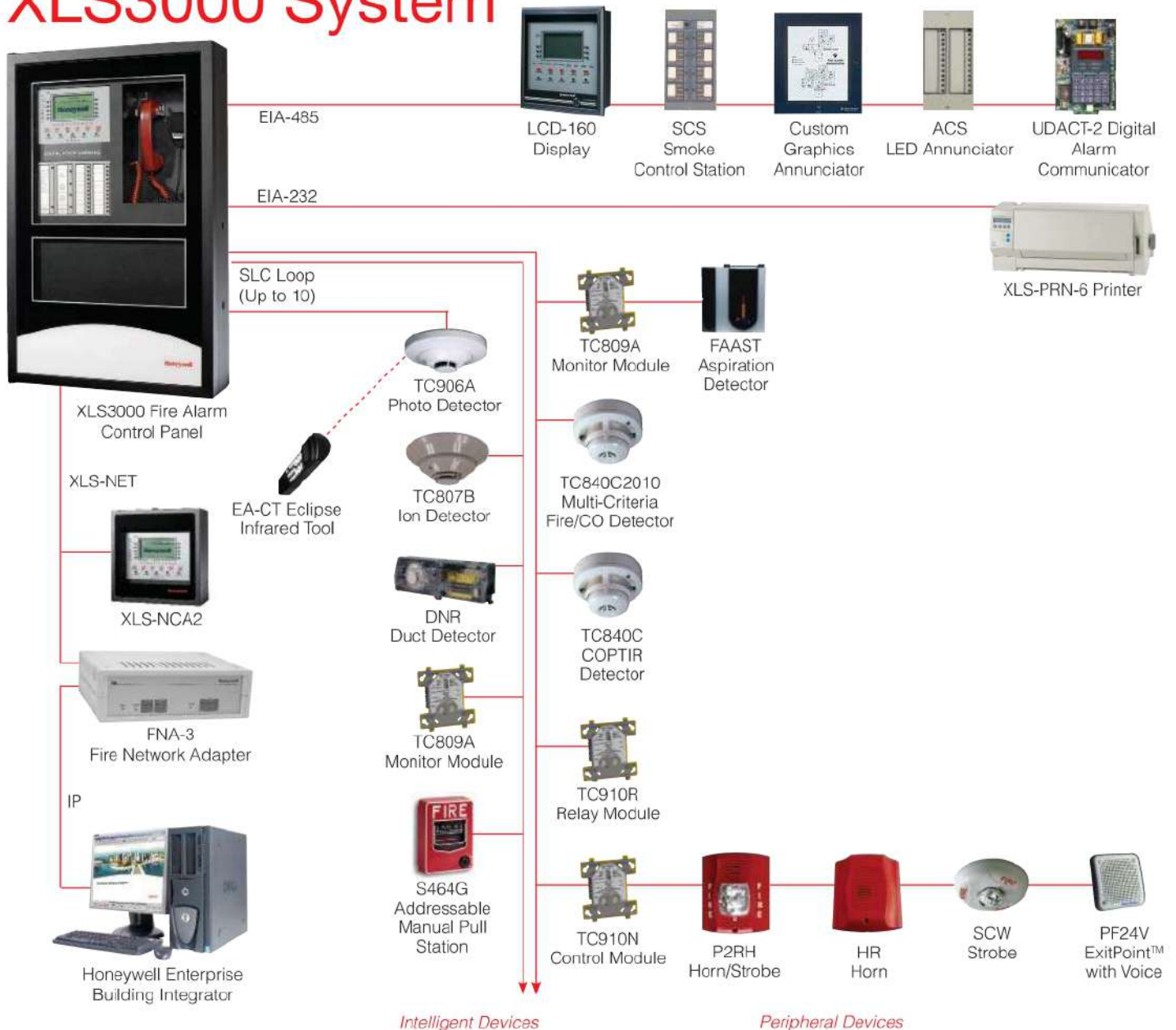
- Remote Sensor gassing Kit
- Duct Mounting Kit
- Calibration gas flow housing
- Collecting cone

Certifications

- UL/c-UL - Class I, Division 1, Groups B, C and D, Class I, Division 2, Groups B, C & D, Class II, Division 1, Groups E, F & G, Class II, Division 2, Groups F & G. -40°C to +65°C
- ATEX Ex II 2 GD Ex d IIC Gb T6 (Ta -40°C to +65°C) Ex tb IIIC T85°C Db IP66
- IEC Ex d IIC Gb T6 (Ta -40°C to +65°C) Extb IIIC T85°C Db IP66



XLS3000 System



Intelligent 1 to 10 Loop

Fire Alarm Control Panels

- Honeywell Enterprise Buildings Integrator (EBI) compatible
- UL 864, Ninth Edition listed
- 1-10 Signaling Line Circuits Style 4, 6 or 7
- Supports Honeywell CLIP, ECLIPSE, and FlashScan™ addressable devices
- Point Capacity: Up to 159 detectors (any mix of ion, photo, laser photo, thermal, or multisensor) and 159 modules (N.O. manual stations, two-wire smoke, notification, or relay) per SLC

- Honeywell SMART capable
- 250 Eclipse devices (125 detectors and 125 modules) per loop
- Large 640-character LCD backlit display (16 lines x 40 characters) or displayless (a node on a network)
- XLS-NET compatible (up to 102 nodes for standard networking or 200 nodes for high-speed networking)
- Application code is saved in FLASH memory, eliminating the need to change EPROMs
- Supports Direct Connect to the XLS-DVC Digital Voice Command

- Weekly Occupancy Schedules allow changing sensitivity by time of day and day of week
- Optional universal 2040-point DACT
- EIA-485 annunciators, including custom graphics
- Unique environment detection includes Pinnacle™ for clean environments, COPTIR for critical environments, and Acclimate™ – a multi sensor that adjusts sensitivity automatically
- FM6320 approved Gas Detection System with TC809C module and any FM approved gas detector

2591J and 2951TJ

Intelligent Plug-In Photoelectric Smoke Detectors with FlashScan®

JOHNSON CONTROLS

General

Johnson Controls intelligent plug-in smoke detectors with integral communication provide features that surpass conventional detectors. Detector sensitivity can be programmed in the control panel software. Sensitivity is continuously monitored and reported to the panel. Point ID capability allows each detector's address to be set with decade address switches, providing exact detector location for selective maintenance when chamber contamination reaches an unacceptable level. The 2951J photoelectric detector's unique optical sensing chamber is engineered to sense smoke produced by a wide range of combustion sources. Dual electronic thermistors add 135°F (57°C) fixed-temperature thermal sensing on the 2951TJ. 2951J and 2951TJ detectors are compatible with the IFC-200, IFC-400, IFC-640, IFC-1010, IFC-2020, IFC-3030, and IFC2-3030.

FlashScan® (U.S. Patent 5,539,389) is a communication protocol that greatly enhances the speed of communication between analog intelligent devices. Intelligent devices communicate in a grouped fashion. If one of the devices in the group has new information, the panel's CPU stops the group poll and concentrates on single points. The net effect is response speed **greater than five times** that of earlier designs.

Features

- Sleek, low-profile design.
- Addressable-analog communication.
- Stable communication technique with noise immunity.
- Low standby current.
- Two-wire SLC connection.
- FlashScan (IFC-640, IFC-3030) and classic CLIP systems (IFC-200, IFC-400, IFC-640, IFC-1010, IFC-2020, IFC-3030) compatible.
- Rotary, decimal addressing (1-99 on current classic systems, 1-159 on FlashScan systems).
- Optional remote, single-gang LED accessory (RA400Z).
- Dual LED design provides 360° viewing angle.
- Visible bi-color LEDs blink green every time the detector is addressed, and illuminate steady red on alarm.
- Remote test feature from the panel.
- Walk test with address display (an address on 121 will blink the detector LED: 12-[pause]-1 (*FlashScan systems only*)).
- Built-in functional test switch activated by external magnet.
- Built-in tamper-resistant feature.
- Sealed against back pressure.
- Constructed of off-white Bayblend®, designed to commercial standards, and offers an attractive appearance.
- 94-5V plastic flammability rating.
- SEMS screws for wiring of the separate base.
- Optional relay, isolator, and sounder bases.
- Backward compatible.



2951J with B210LPJ base



2951TJ with B210LPJ base

Specification

Size: 2.1" (5.3cm) high x 4.1" (10.4cm) diameter installed in B501 base, 6.1" (15.5cm) diameter installed in B210LPJ base.

Shipping Weight: 5.2oz. (147g).

Operating Temperature: 2951J, 0°C to 49°C (32°F to 120°F); 2951TJ, 0°C to 38°C (32°F to 100°F). Low temperature signal for 2951TJ at 45°F +/- 10°F (7.22°C +/- 5.54°C).

UL Listed Velocity Range: 0-4000 ft/min. (1219.2 m/min.), suitable for installation in ducts.

Relative Humidity: 10%-93% noncondensing.

Thermal Ratings: Fixed-temperature setpoint 135°F (57°C).

DETECTOR SPACING AND APPLICATIONS

Johnson Controls recommends spacing detectors in compliance with NFPA 72. In low airflow applications with smooth ceiling, space detectors 30 feet (9.144m) for ceiling heights 10 feet (3.148m) and higher. For specific information regarding detector spacing, placement, and special applications refer to NFPA 72. *System Smoke Detector Application Guide*, document A05-1003, is available at systemsensor.com

2951J and 2951TJ are listed for use in ducts, but they are *NOT* listed for use inside duct smoke detector housings. See Duct Application Smoke Detectors Guide, document A05-1004, available at systemsensor.com, for details on pendant-mount applications.

PRODUCTS RELEASED IN 2020

PUB-MGC-21-001

January 2021

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MORLEY LITE FIRE ALARM CONTROL

Honeywell Morley Lite is a Compact, High Performance, Feature enriched Fire Alarm Control Panel designed to meet the Fire Detection Addressability.

Honeywell Morley-Lite Fire Detection Control Panel series is ideally suited for Small to Medium Sized Buildings, Residential Complexes, Banks, Healthcare, Restaurants, Retail Stores etc. Morley Lite panels communicates via LiteSpeed™ protocol with Morley Lite detectors and devices.

Morley Lite Panel is built with Combination of quick installation, enhanced feature set and advanced programming which allows installer to meet demands of the end user with flexibility in configuration. Equipped with configurable remote monitoring inputs, programmable relays, delay setting for alarm verification, software isolation of class B circuit and NAC outputs, mapping of NAC to specific class B circuits, password protections etc.

End users get clear visible indications, easy to operate functions to activate the control buttons, customizable class B circuit text via text inserts to meet building naming conventions. Reliable and trouble free system built as per latest safety standards of industry which ensures system is safe and protected. Internal memory lock feature to restrict changes to fire panel configuration by any intruder without key lock.



FEATURES

Display: 16 X 4 Char LCD Screen.

Control Keys: Silence Buzzer, Silence/Resound Alarm, Reset, Evaluate, Accept delay. Indicators: Fault, NAC Fault, Earth Fault, Fire, Power, System Fault.

USER INTERFACE

<ul style="list-style-type: none"> 16* 4 Char LCD display, Aesthetically designed front fascia 	<ul style="list-style-type: none"> Fire, Fault, Configurable Relay 	<ul style="list-style-type: none"> Staged Delay configuration for alarm verification
<ul style="list-style-type: none"> Individual Class B Circuit Isolation 	<ul style="list-style-type: none"> Circuitwise NAC configuration 	<ul style="list-style-type: none"> Engineering Mute Configuration
<ul style="list-style-type: none"> Customizable text inserts 	<ul style="list-style-type: none"> NAC Enable/Disable facility 	<ul style="list-style-type: none"> Battery Charging/Battery Internal Resistance Monitoring
<ul style="list-style-type: none"> Programmable input for remote reset/evacuate/alert/fire 	<ul style="list-style-type: none"> Monitored NAC and Class B Circuit for Oper/Short/Faults 	<ul style="list-style-type: none"> Aux output facility
<ul style="list-style-type: none"> Event Logging 	<ul style="list-style-type: none"> PC tool for advanced configuration needs/ Event exploring 	<ul style="list-style-type: none"> On board memory lock switch to prevent unauthorized panel configuration changes.
<ul style="list-style-type: none"> Lamp Test Facility 	<ul style="list-style-type: none"> One Man walk test facility 	<ul style="list-style-type: none"> Configurable delays to output, with timer to fire indication
<ul style="list-style-type: none"> Detectors/MCPs in same circuit 	<ul style="list-style-type: none"> Upto 1000m cable connectivity per circuit, Typically 20 Detectors per Class B Circuit+ 5 MCP's 	<ul style="list-style-type: none"> Latching/Non-Latching configuration for fault for easy debugging
<ul style="list-style-type: none"> Data/Time/Password configuration 	<ul style="list-style-type: none"> Earth Fault Monitoring 	<ul style="list-style-type: none"> Mechanical Keylock
<ul style="list-style-type: none"> Separate configuration/user memories/system fault, sound/ resound feature like EN 54-4 standard 	<ul style="list-style-type: none"> Certified for Safety standard IEC 62368-1:2018 	<ul style="list-style-type: none"> CE certificate

Honeywell



**Intelligent
Systems**

MORLEY IAS
FIRE SYSTEMS
by Honeywell

Ravel
Reliability at reach



ravelfire.com

**ANALOGUE ADDRESSABLE FIRE ALARM SYSTEM &
INTEGRATED VOICE EVACUATION SYSTEM**