

# Excel *Life Safety*

Fire Alarm System Solutions

## Signature Series Intelligent Life Safety Devices

### *Intelligent detectors that maximize fire protection, minimize nuisance alarms*

The Signature line of devices is a comprehensive system comprised of intelligent single sensor element and multisensor element detectors, custom function modules and intelligent pull stations that enhance the performance of the XLS100, XLS200, and XLS1000 life safety systems. The microprocessor based detectors utilize on-board intelligence to confirm that fire threats are real before transmitting an evacuation alarm—virtually eliminating nuisance alarms.

- **Unprecedented protection** - Multi-sensor detectors incorporate various combinations of photoelectric, ionization and thermal sensors in a single intelligent unit providing optimum protection.
- **Nuisance alarm immunity** - Decision algorithms stored in detector memory compare sensed data with known fire profiles and can identify true fire signatures while filtering out false alarms. Alarm verification times and sensitivity can also be uniquely set for each detector further reducing the risk of nuisance alarms.
- **Vital historical data storage** - Each detector maintains an up-to-date historical data base which includes the detector's device type and location, number of alarms and troubles, and time and date of last maintenance.
- **Environmental compensation** - Detectors automatically compensate for environmental changes such as dirt build-up and temperature or humidity fluctuations occurring over time that might otherwise trigger an alarm.
- **Enhanced reliability** - Distributed intelligence allows detectors to perform self diagnostic routines and operate in a degraded mode if communications with the panel is lost.



## Better detection at lower cost

Intelligent features of Signature Series detectors reduce the cost of system installation and maintenance.

- Automatic addressing** - By reading the unique identification number stored in the memory of each detector and module, the system is able to address each device on the circuit electronically, eliminating labor costs associated with setting switches and trouble shooting. System integrity is greatly improved by eliminating the possibility of duplicate addresses or unaddressed devices.
- Electronic mapping** - Electronic portrayal of the physical layout of the system highlights any wiring faults, detector placement errors or software programming deviations.
- Maintenance streamlining** - Signature Series detectors compile and store their own maintenance histories so regularly scheduled maintenance can be performed as required. Excessive dirt buildup will transmit a signal to the panel for individual detector cleaning versus unnecessary system wide cleaning.
- Excellent retrofit opportunity** - Signature Series detectors do not need special twisted or shielded wiring to maintain reliable communication. In many cases, previous alarm wiring in existing buildings can be reused, significantly lowering the cost of installation.



## Full range of Signature detection devices available

Single sensing element detectors include ionization, photoelectric, rate-of-rise and fixed temperature heat. Multi-sensing element devices include photoelectric and thermal, and photoelectric, thermal, and ionization. These devices analyze the separate analog sources individually before making an alarm decision. Nuisance alarms are virtually eliminated while detection of all types of fires (see application suitability table) increases to nearly 100%.



Signature Series life safety devices

Six multi-function modules are also available including the dual input module with four distinct identities per input and the universal module which can be used as an input or output as well as for connection to conventional two-wire smoke detectors.

- Meets all industry standards** - The Signature Series detectors have been designed and manufactured in compliance with ISO 9001 international quality standards. They meet NFPA Standard 72 and are UL, ULC, MEA, FM, and CSFM listed.

## A commitment to customer service

Honeywell through its worldwide network of field offices is dedicated to the fulfillment of your life safety goals. We're ready to furnish design and application assistance, installation and commissioning services, employee training and preventive maintenance support. Whatever you ask of us, we promise to do our best to delight you with our products and services, now and in the years ahead.



## Detector Application Suitability

Test Fire	Type Of Detector				
	Ion	Photo	Rate-Of-Rise/ Fixed Temp.	Photo/Heat	Ion/Photo/Heat
Open Wood	optimum	optimum	optimum	very suitable	optimum
Wood Pyrolysis	suitable	optimum	unsuitable	optimum	optimum
Smouldering Cotton	very suitable	optimum	unsuitable	optimum	optimum
Poly Urethane Foam	very suitable	very suitable	suitable	very suitable	optimum
n-Heptane	optimum	very suitable	very suitable	optimum	optimum
Liquid Fire without Smoke	unsuitable	unsuitable	optimum	very suitable	very suitable

### Home and Building Control

Honeywell Inc.  
Honeywell Plaza  
Minneapolis, MN 55408

### Honeywell Holding AG

Honeywellstrasse 2-6  
D-63477 Maintal  
Germany

### Honeywell South East Asia

Block 750E Chai Chee Road #06-01  
Chai Chee Industrial Park  
Singapore 469005



www.honeywell.com

