Certified SIL 2 Capable Solutions for Hazardous Industrial Environments
A Customizable Fire and Gas Safety System

Flame Detection
1. X3301 Multispectrum IR Flame Detector—Detects hydrocarbon flames by using patented multi-spectrum processing algorithms. Has long detection range and superior false-alarm immunity. Available with HART option and is certified SIL 2 capable.

2. X3308 Multispectrum IR Flame Detector—Detects hydrocarbon flames by using patented multi-spectrum processing algorithms. Has long detection range and superior false-alarm immunity. Available with HART option and is certified SIL 2 capable.

Gas Detection
3. X3908 Single Frequency IR Flame Detector—Detects IR radiation of hydrocarbon flames. Features signal processing that enhances the detector’s sensitivity while reducing false-alarm sources. Available with HART option and is certified SIL 2 capable.

4. X3200 UV/IR Flame Detector—Detects hydrocarbon flames by correlating signals from both an ultraviolet (UV) sensor and an IR sensor. Disregards UV radiation sources such as arc-welding and lightning. Available with HART option and is certified SIL 2 capable.

Safety System Components
13. Analog Input Module (AIM)—Provides eight flexible, independent 4-20 mA input channels that can be set at combustible-gas mode or at universal mode for 4-20 mA inputs from other gas detectors. May be used with X-Series flame detectors and is certified SIL 2 capable.

14. Addressable Smoke Module (ASM)—Provides continuous supervision of system inputs/outputs between Apollo smoke/hazard detectors and the ESP controller. Enables non-hazardous areas (living quarters and control rooms) to be monitored by the same safety system. Is certified SIL 2 capable.

15. Local Operating Network/Signaling Line Circuit (LON/SLC)—Provides a fast, fault-tolerant digital network that expands to meet future needs. Reliable communication is arranged as a loop that starts and ends at the ESP controller.

16. Safety System Software (SS)—Provides a user-friendly, accurate interface to configure, monitor and maintain the safety system. Drivers available include Open Platform Communications (OPC).

17. Eagle Quantum Premier® (EQP) Safety System Controller—Manages, monitors, monitors, and centralizes control for the safety system. The Looped Interconnected Platform Communications (LIPC) network topology is certified SIL 2 capable.

18. Enhanced Discrete I/O Module (EDIO)—Provides eight flexible, independent 4-20 mA input and output wiring. Is certified SIL 2 capable.

19. Model HD Risk Area Heat Detector—Senses excessive heat or fire and can be used as an alarm device to warn personnel, or it can be used as a signaling device to sense fire and send a signal to an alarm panel for actuation of a fire suppression system. Is certified SIL 2 capable.

20. Den-Tronic® SmokeWatch™ USG150 Explosion-Proof Smoke Detector—Suitable for hazardous, industrial and commercial applications, it is a Class Division 1, Zone 1 explosion-proof rated smoke detector.

21. Relay Output Module—Provides eight channels of relay output points programmed for unsupervised operation.

22. Explosion-proof Input/Output Module (EIO)—Integrates EDIO, AIM and Relay Output Module for hazardous locations.

23. High-Speed Deluge Module (HDSM)—Provides six configurable input and six configurable output channels. The HDSM is specifically designed to expand the capability of the ESP system by providing the capability to activate ultra-high-speed suppression systems for hazardous applications. The HDSM is certified SIL 2 capable.

Surveillance
24. iWatch® Camera—Provides a real-time, color image in hazardous areas. Produces a color video picture using a camera module that is mounted inside an explosion-proof rated housing.

25. X-Series Flame Detector with iWatch® Camera—Provides operator real-time view of the monitored area. The camera and flame detector both monitor the same area.

Full Service Solutions
Our dedicated, experienced project support personnel provide services from the development of your application requirements to future maintenance and support.

Project Definition
Project Engineering
Systems Integration
Formal Training and Field Service
The Global Leader in Fire and Gas Safety Systems

QUALITY // PROTECTION // SOLUTION // FLEXIBLE // FUNCTIONAL // RELIABLE // EXPERIENCED // ENGINEERED // ADVANCED

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