



FIRE DETECTION SYSTEM



CONVENTIONAL FIRE ALARM SYSTEM

INTRODUCTION

Alco Fire detection and alarm system are state-of-the-art products. The range includes control and indicating equipment, detectors, and **manual call point**. Our range of products provides **fire detection** and alarm system designers with economical and functional products for safety and *property protection applications*.

CONTROL AND INDICATING EQUIPMENT

Control and indicating equipment forms the contract hub of the fire detection and alarm system. Products are available as **2-zone** and up to **16-zone** configuration. Networkable models provide a flexible and powerful solution for small and medium sized applications. Easy to configure and commission, *Alco control and indicating equipment helps installers complete the installation with a minimum of time and effort. Designer housing in a small foot-print adds attractiveness to architects and building owners.*

SMOKE DETECTORS

Conventional photoelectric detectors use a photoelectric smoke sensing chamber to provide early detection of smoke and high immunity against unwanted alarm.

GAS DETECTORS

Advanced electronics in conjunction with a semiconductor gas sensor provide early detection of **carbon monoxide**, **natural gas** or propane gases and high immunity *against unwanted alarms*.

FLAME DETECTORS

Flame detection is often required for fast-flaming and transparent fires. *The Alco flame detector is ideal for such risks.*

HEAT DETECTORS

Conventional heat detectors use an electronic thermistor sensor to provide sensitive rate-of-alarm operation, or fixed temperature operation when the response threshold value is exceeded.

Note: Hazardous levels of smoke and toxic gas can build up before a heat detector might operate. When life safety and building evacuation is necessary in the event of a **fire, smoke, gas** or **combination detectors** usually provide earlier warning than *heat detectors alone*.

DETECTOR BASES AND ACCESSORIES

The range of bases is suitable for **4-wire** and **4-wire fire detection** and **alarm systems**. Both functional and passive bases provides fire detection and alarm system designers with **Standards-compliant, flexible solutions**. Remote indicators provide visual alarm indication when the connected detector enters the alarm condition. *The indicator is useful where the detector cannot be easily seen when installed in the building.*

MANUAL CALL POINTS

Operation of **manual call points** is achieved the use of a pressure-activated displacement element, which provides a safe and convenient way for **building occupants** to manually initiate a **fire alarm condition**.

Resetting the manual call point is achieved by inserting a key to return the operating face to the quiescent position, or replacing the frangible element (*depending on the model*).

ALARM SOUNDER

Alerting building occupants to an unsafe condition is essential to assist with safe evacuation. A robust and effective **Alarm Sounder** provides the *evacuation signal*.

ALARM SOUNDER

MODEL NO: CFS-AB300, CFS-AB301

DESCRIPTION:

Alco Alarm Sounder has a conventional physical designed and an advance design with an in built LED Light. It provides high volume indication bell in case of emergency.

The Alarm Sounder is integrated with the Alco fire alarm control Panel, which can be further referred in order to locate the effected zone(s).The **AB300** is suitable for connection with 2 wire and 4 wire Fire Detection and Alarm Systems. AB300 will operate with both addressable and *Conventional Fire detection Control* and indicating equipment.

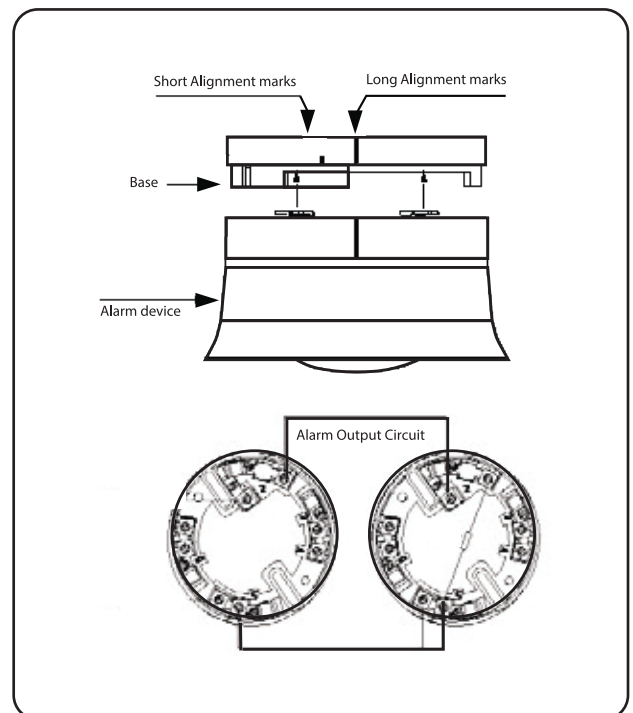


FEATURES:

Operational Voltage	24 VDC
Current	200mA
Output Sound	110 dB
Colour	Red
LED Indicator	Red

TECHNICAL FEATURES:

- Red body available for alarm device.
- Operates when the supply voltage is connected to the device.
- Compatible with relay outouts form control and indicating equipment, or form an output module connected to addressable alarm circuit wiring.
- DC 24 V operation.
- Loud sounder output of 85 dB at 1M.
- Long-life LEDs.
- Zero current load in quiescent condition.



Retail



Education



Hospital



Restaurant



Office



Hotel



Factory/
Warehouse



Easy to Install
Feature



*Models may vary from time to time due to continuous improvement in product design, features, technology and stability for a better user experience.

MANUAL CALL POINT

MODEL NO: CFS-MCP300

DESCRIPTION:

Alco **Resettable Call Point** is designed to have a physical presence that can be located from **approximately 8 meters distance**.

When activated the **Manual Call Point** interrupts the polling cycle for a fast response and a front reset mechanism allows for a quick and simple reset.

The **CFS-MCP300** call points includes a pressure activated displacement element to provide a safe and convenient way for building occupants to manually initiate a fire alarm condition.

Resetting the Manual Call Points is achieved by inserting a key through the underside of the unit to replace the operating system face to the quiescent position.

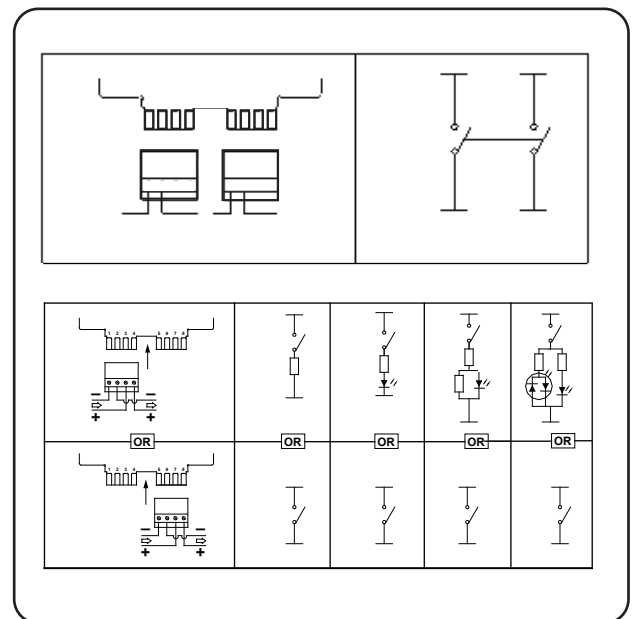


FEATURES:

Operational Voltage	24 VDC
Current	30mA
Output Sound	50 dB
Type	Resettable

TECHNICAL FEATURES:

- Flush or surface mount option available.
- IP54 – IP67 approved rating for installation in different environmental conditions.
- Protective flap to help avoid accidental activation of fire system.
- Size: 88 x 88 x 55 mm (LxWxH).
- Reset mode plastic key.
- Pressure activated displacement element provides a safe user experience.



Retail



Education



Hospital



Restaurant



Office



Hotel



Factory/
Warehouse



Easy to Install
Feature

EN54

FC

CE

*Models may vary from time to time due to continuous improvement in product design, features, technology and stability for a better user experience.

FIRE ALARM CONTROL PANEL

MODEL NO: CFS-FAP 4002, CFS-FAP 4004, CFS-FAP 4008, CFS-FAP 4016

DESCRIPTION:

Alco Fire Alarm Control Panel Series is a 24 Volt, 2 to 16 Zones Conventional Panel. Designed exclusively to meet the latest market requirements and future ULC codes.

This highly cost effective series can be used in a variety of low to high sized applications. Alco Fire Alarm Control Panel series includes a separate bell alarming in each zone and indication of points. **It has a 48 to 72 hours power backup support.** The fire panel also has a short / open circuit indications LED display / power fault, zone isolated test.

CFS-FAP 4016 Conventional control and indicating equipment forms the central part of a fire detection and alarm system.



TECHNICAL FEATURES:

- 2,4,8 or 16 detection zone.
- Up to 32 conventional devices per alarm zone circuit.
- Configurable non-latching alarm zone, dependency (zone coincidence detection), and output delay time.
- 3 Access levels
- Single person test mode
- Day / Night mode.
- Manual activation of alarm sounder devices
- Supervised auxiliary DC 24 V output.
- 2 Independently programmable conventional A/V alarm output circuits.
- 2 Programmable fire alarm relay outputs
- Fault relay output.
- 3 Voltage-free inputs for remote reset,
- Evacuation start / stop, and Day / Night mode
- Supports up to 7 Repeater Panels.



Retail



Education



Hospital



Restaurant



Office



Hotel



Factory/
Warehouse



Easy to Install
Feature

EN54

FC

CE

*Models may vary from time to time due to continuous improvement in product design, features, technology and stability for a better user experience.

REPEATER PANEL

MODEL NO: CFS-R4000

DESCRIPTION:

The **R4000 Conventional Repeater Panel** and indicating equipment forms the display part of a **fire detection and alarm system**.

The repeater panel is compatible with conventional devices and can be connected to conventional devices. The repeater panel comes standard with features that allow **flexibility and expandability**.

Default configuration programming facilitates out of box installation and rapid commissioning.



TECHNICAL FEATURES:

- Networkable, up to 4 control panels.
- Backlight LCD display providing 4 rows of 40 characters.
- Attractive designer enclosure available in white.
- 16 zone fire alarm LED indicators.
- Recessed mounting.

NETWORK INTERFACE CARD

MODEL NO: CFS-NIC300

DESCRIPTION:

The **Network interface card** is used to form a ring network of **Alco control panels and repeaters**. Robust data communications uses separate transmit and receive transmission paths to provide superior reliability. The transmission paths are constantly monitored for fault conditions in the wiring. **A single fault will continue to allow network communications.**

The **network interface card** provides fire detection and **alarm system** designers with a flexible solution to provide multiple Networked systems for **life safety and property protection applications**.



EN54

FC

CE

*Models may vary from time to time due to continuous improvement in product design, features, technology and stability for a better user experience.

TECHNICAL FEATURES:

- RS-422/RS-485 data communications protocol
- Ring topology
- Monitoring of short- and open-circuit conditions in the transmission path
- Fault-tolerant transmissions allows continuous data communications with a single fault in the transmission path



Retail



Education



Hospital



Restaurant



Office



Hotel

Factory/
WarehouseEasy to Install
Feature

*Models may vary from time to time due to continuous improvement in product design, features, technology and stability for a better user experience.

HEAT DETECTOR

Model No: CFS-HD300

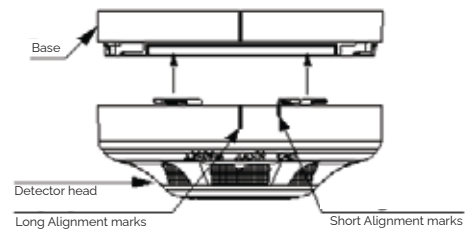
DESCRIPTION:

Alco Heat Detector is designed to use a single thermistor in order to sense the air around the detector. It is ideal in environments which are smoke and dusty under normal conditions.

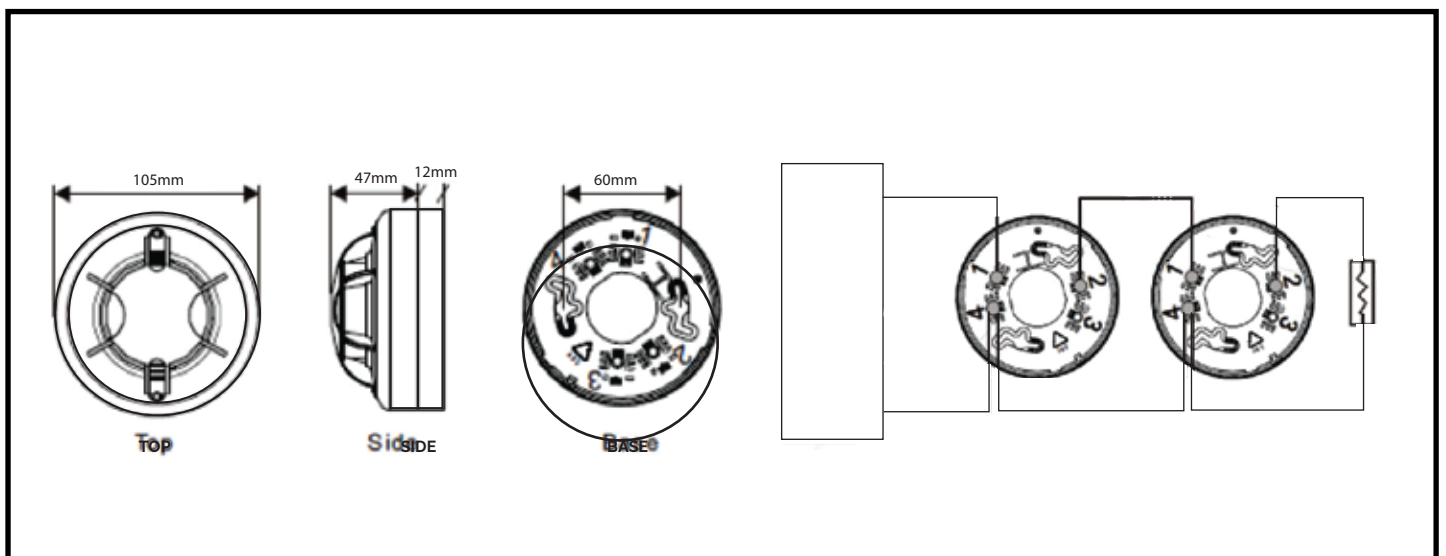
The heat detector is designed in such a way that it is unaffected by atmospheric pressures or wind and makes it more ideal to use and error free.

HD300 conventional fire heat detectors are suitable for connection to **2-wire** conventional fire detection control and indicating equipment, or to conventional fire detection control and indicating equipment that can accept conventional type detectors.

An electronic thermistor provides sensitive rate-of-rise operation or fixed-temperature operation when the response threshold value is exceeded.



TECHNICAL DIAGRAMS:



*Models may vary from time to time due to continuous improvement in product design, features, technology and stability for a better user experience.

TECHNICAL FEATURES:

- Wire: 2 wire model (4 wire also available)
- System Voltage: 9V-28VDC
- Standby Current: 40uA
- Alarm Current: 30mA
- Temperature Range: -10 C~ 50 C
- Humidity Range: 10%~ 93%
- Fixed Temperature Range: 57 C
- Installation Height: 3 - 5 Meters (Recommended)
- No. of Detectors per Zone: 20-25 (Recommended)
- Weight of smoke and heat: 155g
- Advanced algorithms provide analogue detection discrimination
- Surface-mount device (SMD) circuit board design
- High immunity against unwanted alarms
- Stable smoke sensing chamber. No adjustment or replacement required
- 2-wire and 4-wire models for DC 12 V and DC 24 operation
- 4-wire model for DC 48 V operation
- 2-wire models available with remote LED output
- 4-wire models available with a N/O alarm relay output
- 4-wire model compatible with relay base
- 4-wire models available with auto-reset function
- Connects to zone monitor for use with addressable control and indicating equipment
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- Low maintenance



Retail



Education



Hospital



Restaurant



Office



Hotel

Factory/
WarehouseEasy to Install
Feature

HEAT DETECTOR

MODEL NO: CFS-HD301

DESCRIPTION:

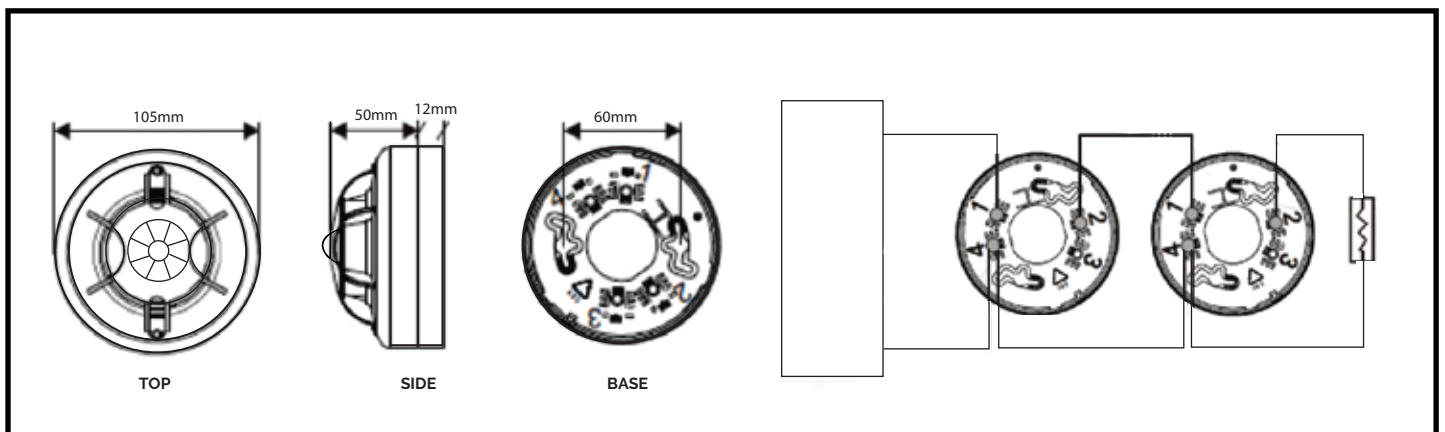
HD 301 Conventional Heat Detectors are suitable for connection to 2-wire conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors.

An electronic thermistor or fixed-temperature provides sensation rate of rise operation or fixed-temperature operation when the response threshold value is exceeded.

TECHNICAL FEATURES:

- Durable heat sensor.
- Analogue detection discrimination.
- Dual LEDs for 360 visibility.
- 2-wire and 4-wire models for DC 12 V and DC 24 V operation.
- 4-wire models available with auto-reset.
- 2-wire models available with remote LED output.
- Connects to zone monitor for use with addressable control and indicating equipment.

TECHNICAL DIAGRAMS:



*Models may vary from time to time due to continuous improvement in product design, features, technology and stability for a better user experience.

SMOKE DETECTOR

MODEL NO: CFS-SD300

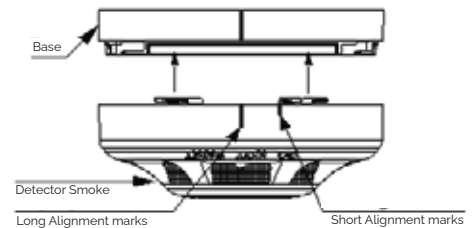
DESCRIPTION:

Alco optical **Smoke Detector** is a 2-wire type detector (also available in 4 wire). The innovative **SD300 series detectors** have been carefully designed in order to sense both slow and fast developing fires with the help of optical sensing chamber along with a refined signal processing technology.

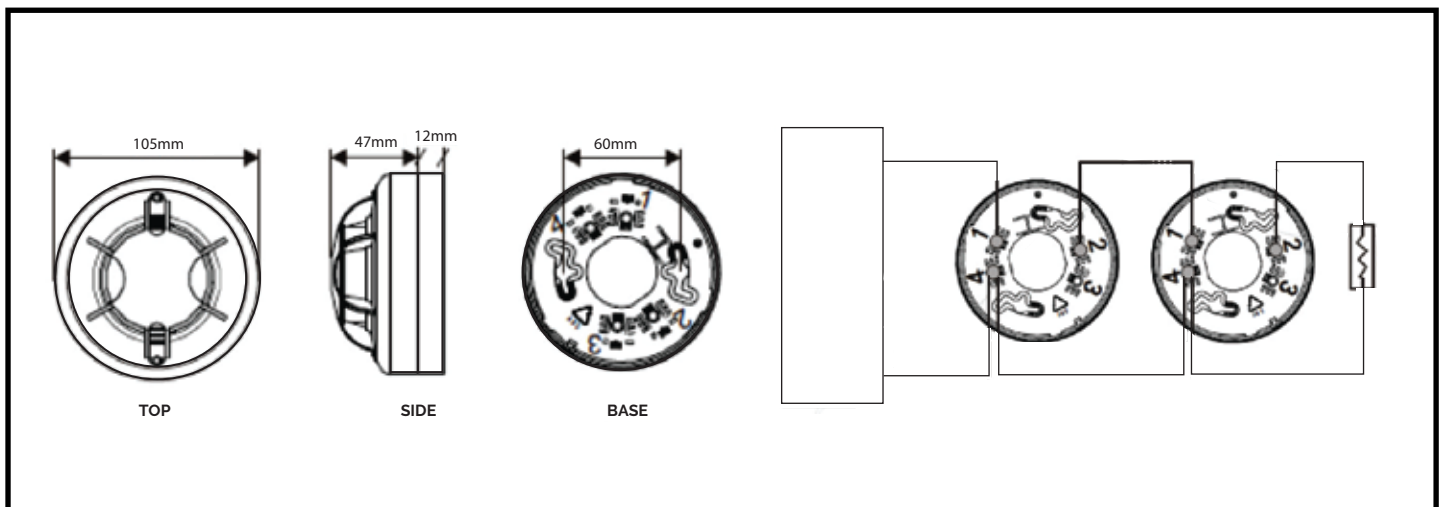
SD-300 conventional photoelectric smoke detectors are state-of-the-art detectors suitable for connection to **2-wire** or **4-wire** conventional fire detection control and indicating equipment, or to conventional fire detection control and indicating equipment that can accept conventional type detectors.

Advanced electronics in conjunction with a photoelectric smoke sensing chamber and an electronic thermistor provide early detection of fire and high immunity against unwanted alarms.

The heat sensor provides sensitive rate-of-rise operation or fixed-temperature operation when the **response threshold value is exceeded**



TECHNICAL DIAGRAMS:



*Models may vary from time to time due to continuous improvement in product design, features, technology and stability for a better user experience.

TECHNICAL FEATURES:

- Wire: 2 wire model (4 wire also available)
- System Voltage: 9V - 28VDC
- Standby Current: 60uA
- Alarm Current: 30mA
- Temperature Range: 10 C ~ 50 C
- Humidity Range: 10% ~ 95%
- Fixed Temperature Range: 57
- Installation Height: 3- 5 Meters (Recommended)
- No. of Detectors per Zone: 20-25 (Recommended)
- Smoke and heat sensors
- Analogue detection discrimination
- Dual LEDs for 360° visibility
- 2-wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-wire model for DC 48 V operation
- 4-wire models available with a N/O alarm
- 4-wire models available with auto-reset
- 2-wire models available with remote LED output
- Connects to zone monitor for use with addressable control and indicating equipment



*Models may vary from time to time due to continuous improvement in product design, features, technology and stability for a better user experience.

SMOKE + HEAT DETECTOR

MODEL NO: CFS-SHD300

DESCRIPTION:

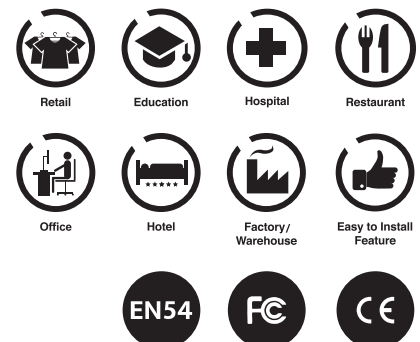
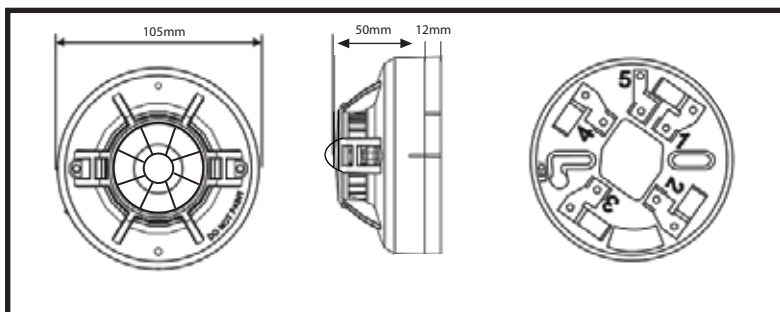
SHD300 conventional photoelectric smoke / heat detectors are state-of-the-art detectors suitable for connection to **2-wire or 4-wire conventional fire detection control** and indicating equipment, or to conventional fire detection control and indicating equipment that can accept **conventional type detectors**.

Advanced electronics in conjunction with a photoelectric smoke sensing chamber and an electronic thermistor provide early detection of fire and high immunity against unwanted alarms.

The heat sensor provides sensitive rate-of-rise operation or fixed-temperature operation when the response threshold value is exceeded.

TECHNICAL FEATURES:

- Photoelectric smoke and heat sensors
- Analogue detection discrimination
- Dual LEDs for 360° visibility
- 2-wire and 4-wire models for DC 12 V and 24 V operation DC
- 4-wire model for DC 48 V operation
- 4-wire models available with a N/O alarm relay output
- 4-wire models available with auto-reset
- 2-wire models available with remote LED output
- Connects to zone monitor for use with addressable control and indicating equipment



*Models may vary from time to time due to continuous improvement in product design, features, technology and stability for a better user experience.

CO GAS DETECTOR

MODEL NO: CFS-400C

DESCRIPTION:

400C-series conventional carbon monoxide (CO) alarms are suitable for connection to **2-wire and 4-wire conventional fire detection control** and indicating equipment.

400C detectors can also connect to **2-wire and 4-wire** conventional fire detection control and indicating equipment that can accept conventional detectors.

Advanced electronics in conjunction with a semiconductor gas sensor provide early detection of carbon monoxide gas and high immunity against unwanted alarms.



TECHNICAL FEATURES:

- Detector auto-reset once gas levels fall below alarm threshold levels
- 2-wire and 4-wire models for DC 12 V and DC 24 V operation
- High sensitivity UVtron sensor tube technology
- Solar blind, with an electronic filter to eliminate unwanted alarms from naturally occurring phenomena
- High immunity to electrical noise and RF interference
- Connects to zone monitor for use with addressable control and indicating equipment

FLAME DETECTOR

MODEL NO: CFS-400F

DESCRIPTION:

The **400F conventional ultra-violet flame detectors** are suitable for connection to 2-wire and 4-wire conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors.

The **400F flame detectors** are suited to applications where flames rapidly develop due to the nature of the combustible materials such as where petrochemical products are used or stored detector for *life safety and property protection applications*.



EN54

FC

CE

*Models may vary from time to time due to continuous improvement in product design, features, technology and stability for a better user experience.



San Carlos Business and Technology Park,
Industrial Road, CA 94070 - USA
Email : enquiry@alcosolutions.net
Web : www.alcosolutions.net



SCAN ME