Axis AX UL Smoke Detector

The Axis AX UL Smoke Detector is our most advanced detector offering suitable for a wide range of applications. It uses Purelight® high-tech sensing technology that detects smoke particles entering the chamber and substantially reduces the possibility of false alarms.

Operation

The low profile design of the Axis AX Smoke Detector is sleek and evolutionary, with a 360º LED indicator which illuminates red when in alarm.

At the heart of the smoke sensor is Purelight® Sensing Technology which incorporates:

- Cone technology combined with a high-intensity infrared LED to provide stability and accurate sensitivity to smoke.
- A sophisticated dynamic algorithm, providing transient rejection and compensation for drift whilst maintaining accurate sensitivity.

The smoke chamber of the detector is a unique cone shape which serves to reduce any stray reflection. This ultra dark internal light chamber also contains a high-intensity infrared LED that is highly sensitive to smoke particles.

When smoke enters the chamber, infra-red light is scattered and registered by the photodiode and amplifier that are included in an application-specific integrated circuit (ASIC). This circuit ensures long term reliability, even in extreme conditions.

System compatibility

Axis AX detectors have been designed to operate on Discovery loops. This allows for Axis AX detectors and bases to operate on existing systems.

Maintenance and service

Axis AX detectors have been designed with a comprehensive set of features to support maintenance and service. Maintenance has to be done in accordance with all applicable standards. Clean the detector externally using a soft damp cloth.



Features

- Built-in isolator
- Purelight® optical technology for enhanced smoke detection and false alarm management
- Drift compensation
- Backwards compatible with Discovery
- Base locking mechanism (grub screw)
- In-built self test
- XPERT card addressing

Listings and Approvals

- Approved to UL268 7th edition, CSFM, ULC S529

Please note: This detector is a direct replacement for the 58000-65AEL Axis AX Smoke Detector.

Specification

Digital communication protocol	Discovery
Supply wiring	Two wire supply, polarity sensitive
Sensitivity	1.2-2.1%/ft
Supply voltage (Vmin-Vmax)	17-28 Vdc
Sampling frequency	Once per second
Modulation voltage	5-9V peak to peak
Supervisory current	500 µA

Switch-on surge current	1.0 mA
Alarm/operated current, LED on	4.0 mA
Status indicator	Alarm - Red Fault - Flashing yellow Isolate - Yellow Poll - Flashing green
Additional remote LED current	5A maximum
Product operating temperature	32° F to 131° F (0° C to 55° C)
Effect of atmospheric pressure	None
Air velocity	0-300 fpm
Humidity	0% to 95% RH (no condensation or icing)
IP rating	IP44
Weight	2.93 ounces (83g)
Dimensions	4" (100mm) diameter x 1.42" (36mm height) 1.88" (48 mm) height with XPERT Intelligent Mounting Base
Materials	Housing: White flame-retardant polycarbonate. Terminals: Tin-plated stainless steel

All data is supplied subject to change without notice. Specifications are typical at 24 V, 73° F and 50% RH unless otherwise stated.

Isolated detector data

Maximum loop current (1c max; L1 in/out)	1A
Maximum series resistance (Z c max; L1 in/out)	100 mΩ

Order Codes and Options

SA5150-650ADV	Axis AX UL Smoke Detector
SA5000-210ADV	Axis AX UL Base - 4"
SA5000-230ADV	Axis AX UL Base - 6"

NB Built-in isolators for Axis AX Smoke and Multicriteria detectors only.

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As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Axis AX UL Multicriteria Detector

The Axis AX UL Multicriteria Detector (Smoke/Heat) is our most advanced detector offering suitable for a wide range of applications. It uses Purelight® high-tech smoke sensing technology to detect smoke particles entering the chamber and is fitted with two thermistors for detecting heat. It can be switched to detect smoke, heat or a combination of both, offering greater flexibility, fast detection and advanced false alarm management.



Operation

The low profile design of the Axis AX UL Multicriteria Detector (Smoke/Heat) is sleek and evolutionary, with a 360º LED indicator which illuminates red when in alarm.

At the heart of the smoke smoke sensor is Purelight® Sensing Technology which incorporates:

- Cone technology combined with a high-intensity infrared LED to provide stability and accurate sensitivity to smoke.
- A sophisticated dynamic algorithm, providing transient rejection and compensation for drift whilst maintaining accurate sensitivity.

Signals from the smoke smoke chamber and temperature sensors are independent and represent the smoke level and air temperature respectively in the vicinity of the detector; the detector's micro-controller processes both signals. The temperature signal processing extracts only rate-of-rise information for combination with the smoke signal.

The optical sensor will trigger an alarm at 1.2 %/ft and the heat sensor at 69.8 ºF (21 ºC) rise. Minimum time to alarm is ten seconds.

The detector will not respond to slow increases in temperature, but a large, sudden change can cause an alarm without the presence of smoke.

The sensor will respond to smoke or heat, or a combination of both.

System compatibility

Axis AX detectors have been designed to operate on Discovery protocol loops. This allows for Axis AX detectors and bases to operate on existing systems.

Maintenance and service

Axis AX detectors have been designed with a comprehensive set of features to support maintenance and service, from self-test capabilities to drift compensation warnings on dirty detectors.

Features

- Built-in isolator
- Purelight® optical technology for enhanced smoke detection and false alarm management
- Drift compensation
- Backwards compatible with Discovery
- Base locking mechanism (grub screw)
- In-built self test
- XPERT card addressing
- Dual heat sensors

Listings and Approvals

- Approved to UL268 7th edition, UL 521, ULC S529, ULC S530

Operating modes

Axis AX multisensor detectors give the choice of five operating modes which respond as follows:

- Modes 1, 3 and 4 - multicriteria response
- Mode 2 - optical response only
- Mode 5 - heat response only

Specification

Digital communication protocol	Discovery
Supply wiring	Two wire supply, polarity sensitive
Sensitivity	1.2-2.1%/ft
Supply voltage (Vmin-Vmax)	17-28 Vdc
Sampling frequency	Once per second
Modulation voltage	5-9V peak to peak
Supervisory current	500 µA
Switch-on surge current	1.0 mA
Alarm/operated current, LED on	4.0 mA
Status indicator	Alarm - Red Fault - Flashing yellow Isolate - Yellow Poll - Flashing green
Additional remote LED current	5mA maximum
Product operating temperature	32° F to 131° F (0° C to 55° C)
Heat element rating (Mode 5 only)	115° F (47° C)
Effect of atmospheric pressure	None
Air velocity	0-300 fpm
Humidity	0% to 95% RH (no condensation or icing)
IP rating	IP44
Weight	2.93 ounces (83g)
Mzximum spacing (Mode 5 only)	50 ft (15.24m)
Dimensions	4" (100mm) diameter x 1.51" (38.5mm height) 1.98" (50.5 mm) height with XPERT8 Intelligent Mounting Base
Materials	Housing: White flame-retardant polycarbonate. Terminals: Tin-plated stainless steel

All data is supplied subject to change without notice. Specifications are typical at 24 V, 73° F and 50% RH unless otherwise stated.

Isolated detector data

Maximum loop current (1c max; L1 in/out)	1A
Maximum series resistance (Z c max; L1 in/out)	100 mΩ

Order Codes and Options

SA5150-750ADV	Axis AX UL Multicriteria Detector
SA5000-210ADV	Axis AX UL Base - 4"
SA5000-230ADV	Axis AX UL Base - 6"

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Axis AX UL Heat Detector

The Axis AX UL Heat Detector monitors temperature by using a single thermistor which provides a voltage output proportional to the external air temperature.



Operation

In the Axis AX UL Heat Detector, the five response modes correspond to the five ‘classes’ as defined in UL 268. The classes in this standard correspond to different behaviour, each of which is designed to be suitable for a range of application temperatures. All modes incorporate ‘fixed temperature’ response, which is defined in the standard by the ‘static response temperature’.

Electrical description

The Axis AX UL Heat Detector is designed to be connected to a two wire loop circuit carrying both data and a 17 V to 28 V dc supply. The detector is connected to the incoming and outgoing supply via terminals L1 and L2 in the mounting base. A remote LED indicator requiring not more than 4 mA at 5 V may be connected between the +R and -R terminals. An earth connection terminal is also provided.

Remote test feature

The remote test feature is enabled from the fire control panel. On receipt of the command signal from the fire control panel, the detector is forced electrically into alarm. An analogue value of 85 is returned to the fire control panel to indicate that the detector is working correctly.

Rejection of transient signals

Axis AX UL detectors are designed to give low sensitivity to very rapid changes in the sensor output, since these are unlikely to be caused by real fire conditions, resulting in fewer false alarms.

Response modes

Axis AX UL Heat Detectors can be operated in any one of five UL approved response modes, which can be selected through the fire control panel. Each mode corresponds to a unique response behaviour, which is related to sensitivity to fire. Mode 1 gives a higher sensitivity to fire than Mode 5.

Flashing LEDs

Axis AX UL Heat detectors have two integral LED indicators, which can be illuminated at any time by the fire control panel to indicate detectors in alarm. A flashing LED mode can also be programmed to activate each time a detector is polled.

Features

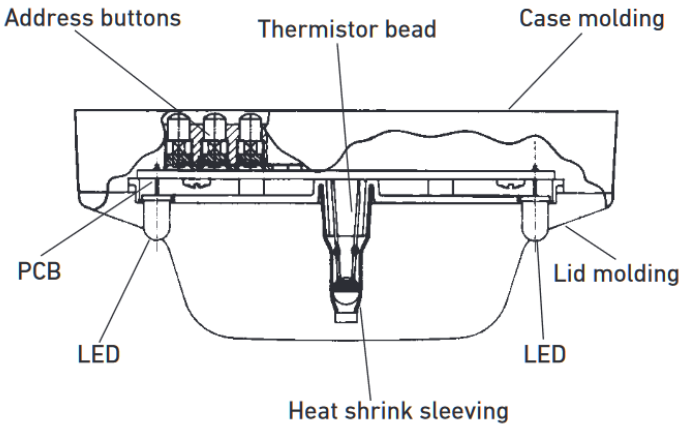
- Compatible with all devices from the Soteria UL range
- Electronic temperature sensing
- Alarm flag for fast alarm responding
- Easy installation
- Elegant design
- Unaffected by wind or atmospheric pressure
- Ideal for environments that are dirty or smoky under normal circumstances
- Well suited to warehouses, loading docks and parking garages

Listings and Approvals

- Approved to UL521

Please note: This detector is a direct replacement for the 58000-450AEL Axis AX Heat Detector.

Sectional view



Specification

Digital communication protocol	Discovery
Operating voltage (Vmin-Vmax)	17-28 Vdc
Modulation voltage	5-9V peak to peak
Supervisory current	500 µA
Surge current	1.0 mA
Alarm LED current	3.5 mA
Additional remote LED current	5A maximum
Operating temperature range	32° F to 151° F
Heat element rating	135° F to 210° F
Humidity	0% to 95% RH (no condensation or icing)
Weight	3.70 ounces
Dimensions	3.93" diameter x 1.65" height
Materials	Housing: White flame-retardant polycarbonate. Terminals: Tin-plated stainless steel
Spacing	Smooth ceiling 70 ft Wall or partition 35 ft

All data is supplied subject to change without notice. Specifications are typical at 24 V, 73° F and 50% RH unless otherwise stated.

Heat detector response modes

Mode	UL heat classification @55 counts alarm
1	135ºF fixed temperature with rate of rise
2	150ºF fixed temperature and rate of rise
3	150ºF fixed temperature
4	200ºF fixed temperature and rate of rise
5	200ºF fixed temperature

Order Codes and Options

SA5800-450ADV	Axis AX UL Heat Detector
SA5000-210ADV	Axis AX UL Base - 4"
SA5000-230ADV	Axis AX UL Base - 6"
SA5300-800	Axis AX CO Sounder Base - 6" high frequency
SA5300-802	Axis AX Sounder Base - 6" high frequency
SA5300-805	Axis AX CO Sounder Base - 6" low frequency
SA5300-806	Axis AX Sounder Base - 6" low frequency

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Advanced XP95A Smoke Detector

The Advanced XP95A Smoke Detector uses new sensing technology, Purelight®, to detect smoke particles entering the chamber. This reduces the possibility of false alarms whilst increasing the reliability of detection of a real fire. Detection uses photo-electric light scattering and the chamber has a surface-mount infrared emitter and prism, with a solid state integrated photo-diode and amplifier.

Electrical description

The Advanced XP95A Smoke Detector is designed to be connected to a two-wire loop circuit carrying both data and a 17 V - 28 V dc supply. The detector is connected to the incoming and outgoing supply via terminals L1 and L2 in the mounting base. A remote LED indicator may be connected between the +R and -R terminals. A ground connection terminal is also provided.

Operation

The low profile design is sleek and evolutionary, with a 360° LED indicator which illuminates red when in alarm.

At the heart of the smoke sensor is Purelight® Sensing Technology which incorporates:

- Cone technology combined with a high-intensity infrared LED to provide stability and accurate sensitivity to smoke
- A sophisticated dynamic algorithm, providing transient rejection and compensation for drift whilst maintaining accurate sensitivity

The smoke chamber of the detector is a unique cone shape which serves to reduce any stray reflection. This ultra dark internal light chamber also contains a high-intensity infrared LED that is highly sensitive to smoke particles. When smoke enters the chamber, infra-red light is scattered and registered by the photodiode and amplifier that are included in an application-specific integrated circuit (ASIC). This circuit ensures long term reliability, even in extreme conditions.

System compatibility

This detector has been designed to operate with XP95A detectors and loops and can operate on an approved XPERT intelligent mounting base. However, the eighth bit of the address will be ignored.

The device will compensate for drift internally and the fire panel will see this as an increase in analog value. When internal drift limits are reached a fault analog value will be generated.



Features

- Purelight® optical technology for enhanced smoke detection and false alarm management
- Internal drift compensation
- Easy installation
- Backwards compatible with XP95 systems
- Base locking mechanism (grub screw)
- Polarity insensitive wiring
- In-built self test
- XPERT card addressing

Listings and Approvals

- Approved to UL268 7th edition, ULC S529

This detector is a direct replacement for the 55000-650AEL XP95A smoke detector.

Maintenance and service

Maintenance has to be done in accordance with all applicable standards. Clean the detector externally using a soft damp cloth.

Specification

Digital communication protocol	XP95
Supply wiring	Two wire supply, polarity insensitive
Sensitivity	1.2-2.1%/ft
Supply voltage (Vmin-Vmax)	17-28 Vdc
Sampling frequency	Once per second
Modulation voltage	5-9V peak to peak
Supervisory current	340 µA
Switch-on surge current	1.0 mA
Alarm/operated current, LED on	4.0 mA
Status indicator	Alarm (red)
Additional remote LED current	5mA maximum
Product operating temperature	32° F to 131° F (0° C to 55° C)
Effect of atmospheric pressure	None
Air velocity	0-300 fpm
Humidity	0% to 95% RH (no condensation or icing)
IP rating	IP44
Weight	2.93 ounces (83g)
Dimensions	4" (100mm) diameter x 1.41" (36mm height) 1.88" (48 mm) height with XPERT8 Intelligent Mounting Base
Materials	Housing: White flame-retardant polycarbonate. Terminals: Tin-plated stainless steel

All data is supplied subject to change without notice. Specifications are typical at 24 V, 73° F and 50% RH unless otherwise stated.

Order Codes and Options

SA5050-250ADV	Advanced AX XP95A Smoke Detector
SA5000-210ADV	Axis AX UL Base - 4"
SA5000-230ADV	Axis AX UL Base - 6"

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Advanced

Axis AX

Intelligent Air Duct Detectors

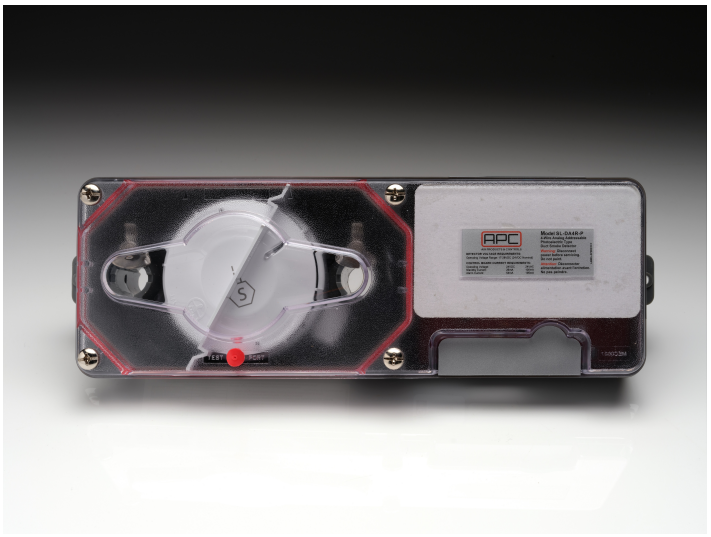
The Advanced Intelligent Air Duct Detectors are the latest innovation for early detection of smoke and products of combustion present in air moving through HVAC ducts in Commercial, Industrial, and Residential applications. The units are designed to prevent the recirculation or spread of smoke by air handling systems, fans, and blowers. Complete systems may be shut down in the event of smoke detection.

The operating principle of the Intelligent Air Duct Detectors is based on the Venturi effect. Two tubes extend into the HVAC duct. Air flowing through the duct is forced into the air intake (inlet) tube via the air intake holes (facing the air flow) and passes over the detector head. The air will be drawn out via the exhaust tube back into the HVAC duct. When the concentration of smoke particles suspended in the air stream reach the alarm threshold of the intelligent detector head the Intelligent Air Duct Detector will go into alarm thus alarming the Axis AX Series Intelligent Fire Alarm Control Panel.

The Intelligent Air Duct Detectors are designed to operate in duct widths from 6” to 10’ wide with an air velocity between 100 to 4,000 feet per minute.

Two (2) versions of the Intelligent Air Duct Detector are available from Advanced, the versions include both two and four wire operation with an intelligent photoelectric. Two wire versions do not include an alarm relay contact, and can only drive a remote LED indicator. If alarm relay contact and/or additional remote accessory options are required, beyond a remote LED, the four wire version must be provided.

The Intelligent Air Duct Detectors are built to meet all local code requirements, as well as the NFPA and ICC standards regarding HVAC supply and return duct smoke detectors. Output terminals are provided for a wide range of remote accessories such as remote status indicators, and test/reset key switches or push buttons. The Intelligent Air Duct Detectors include many features that represent true innovations from current generation duct smoke detectors.



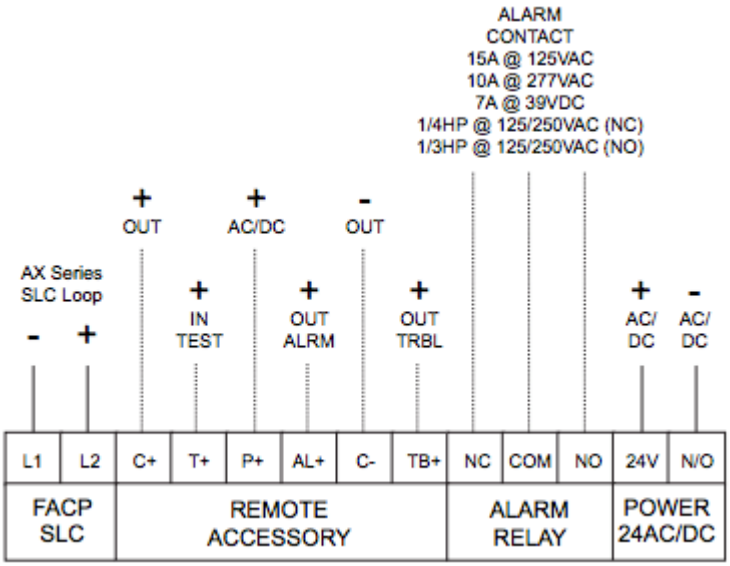
Features

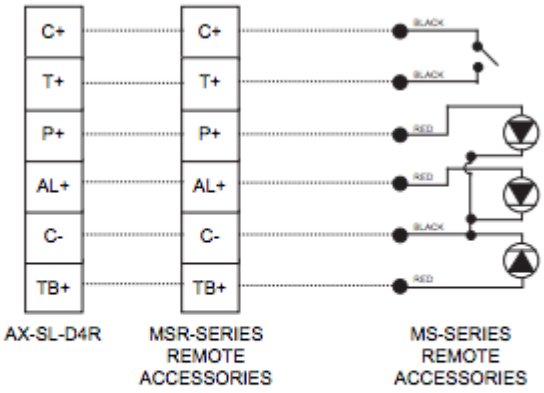
- 2/4 Wire with Intelligent Photo or Ion Detector
- Low-Flow Technology (100-4000ft/min)
- Listed for High-Temp Applications
- Patented “No-Tools Required”
- Patented “Test Port Valve”
- Instantaneous Cover Removal Indication
- Staggered Terminal Blocks for Easier Wiring
- Flashing Detector LED Indicating Normal Operation

Listings and Approvals

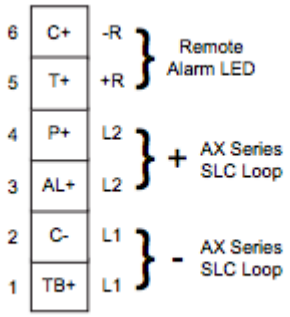
- ETL ANSI/UL 864 Listed: 101564744NYM-001
- UL File: UROX.S2829
- ULC File: UROXC.S2829
- CSFM Approved: 3240-1004:0116
- NYC MEA: 73-92-E

Wiring Diagram





X-SL-DAA (P or N) TERMINAL CONNECTIONS
AX-SL-DAA (P or N) TERMINAL CONNECTIONS



Specification

AX Series SLC Loop	
Voltage	17-28 VDC
Modulation Voltage	5-9 VDC (Peek to Peek)
Supervisory Current	0.85 mA
Surge Current	2.5 mA
Alarm Current	3.5 mA (LED On) (Max.)
Line Impedance	50 Ω(Max.)
Alarm Relay Contact Rating (4-Wire Only)	
DC Voltage	7 Amp @ 39VDC
AC Voltage	15 Amp @ 125VAC, 10 Amp @ 277VAC
Wiring	Screw In-Out Terminals
Humidity	10% to 85% RH Non-Condensing
Dimensions (Diameter & Height)	13 1/2” L x 4 1/2” W x 2 1/4” D
Weight	2.25 lbs
Ambient Temperature AX-SL-DA4R-P, AX-SL-DAA-P AX-SL-DA4R-N, AX-SL-DAA-N	 32º -140ºF (0º-60ºC) 32º -140ºF (0º-60ºC)

Air Velocity	100 to 4,000ft/min.
Radioactive Material AX-SL-DA4R-N, AX-SL-DAA-N	Americium 241, 0.9 micro curie

Order Codes and Options

AX-SL-DA4R-P	Intelligent Duct Detector, PHOTO, 4-Wire
AX-SL-DAA-P	Intelligent Duct Detector, PHOTO, 2-Wire
STN-1.0	10” Sampling Tube for Ducts 6” - 12” wide
STN-2.5	30” Sampling Tube for Ducts 1’ - 3’ wide
STN-5.0	5’ Sampling Tube for Ducts 3’ - 5’ wide
STN-10.0	10’ Sampling Tube for Ducts 5’ - 10’ wide

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Advanced XP95A Multicriteria Detector

The XP95A Multi-Criteria Detector (Smoke/Heat) uses new photoelectric sensing technology, Purelight®, to detect smoke particles entering the chamber. It reduces the possibility of false alarms whilst increasing the reliability of detecting a real fire.

Electrical description

The XP95A Multi-Criteria Detector (Smoke/Heat) is designed to be connected to a two-wire loop circuit carrying both data and a 17 V - 28 V dc supply. The detector is connected to the incoming and outgoing supply via terminals L1 and L2 in the mounting base. A remote LED indicator may be connected between the +R and -R terminals. A ground connection terminal is also provided.

Operation

The low profile design of the XP95A Multi-Criteria Detector (Smoke/Heat) is sleek and evolutionary, with a 360° LED indicator which illuminates red when in alarm. At the heart of the photoelectric smoke sensor is Purelight® Sensing Technology which incorporates: • Cone technology combined with a high-intensity infra[1]red LED to provide stability and accurate sensitivity to smoke. • A sophisticated dynamic algorithm, providing transient rejection and compensation for drift whilst maintaining accurate sensitivity. Signals from the photoelectric smoke chamber and temperature sensors are independent and represent the smoke level and air temperature respectively in the vicinity of the detector; the detectors micro-controller processes both signals. The temperature signal processing extracts only rate-of-rise information for combination with the smoke signal. The optical sensor will trigger an alarm at 1.2 %/ft and the heat sensor at 69.8 ºF (21 ºC) rise. Minimum time to alarm is ten seconds. The detector will not respond to slow increases in temperature, but a large, sudden change can cause an alarm without the presence of smoke. The sensor will respond to smoke or heat, or a combination of both.



System compatibility

The low profile design of the XP95A Multi-Criteria Detector (Smoke/Heat) is sleek and evolutionary, with a 360° LED indicator which illuminates red when in alarm. At the heart of the photoelectric smoke sensor is Purelight® Sensing Technology which incorporates: • Cone technology combined with a high-intensity infra[1]red LED to provide stability and accurate sensitivity to smoke. • A sophisticated dynamic algorithm, providing transient rejection and compensation for drift whilst maintaining accurate sensitivity. Signals from the photoelectric smoke chamber and temperature sensors are independent and represent the smoke level and air temperature respectively in the vicinity of the detector; the detectors micro-controller processes both signals. The temperature signal processing extracts only rate-of-rise information for combination with the smoke signal. The optical sensor will trigger an alarm at 1.2 %/ft and the heat sensor at 69.8 ºF (21 ºC) rise. Minimum time to alarm is ten seconds. The detector will not respond to slow increases in temperature, but a large, sudden change can cause an alarm without the presence of smoke. The sensor will respond to smoke or heat, or a combination of both.

Maintenance and service

Maintenance has to be done in accordance with all applicable standards. Clean the detector externally using a soft damp cloth.

Features

- Purelight® optical technology for enhanced smoke detection and false alarm management
- Internal drift compensation
- Easy installation
- Backwards compatible with XP95 systems
- Base locking mechanism (grub screw)
- Polarity insensitive wiring
- In-built self test
- XPERT card addressing

Listings and approvals

- Approved to UL268 7th edition, UL521

This detector is a direct replacement for the 55000-886AEL XP95A multisensor detector.

Specification

Digital communication protocol	XP95
Supply wiring	Two wire supply, polarity insensitive
Sensitivity	1.2-2.1%/ft
Supply voltage (Vmin-Vmax)	17-28 Vdc
Sampling frequency	Once per second
Modulation voltage	5-9V peak to peak
Supervisory current	340 µA
Switch-on surge current	1.0 mA
Alarm/operated current, LED on	4.0 mA
Status indicator	Alarm (red)
Additional remote LED current	5mA maximum
Product operating temperature	32° F to 131° F (0° C to 55° C)
Effect of atmospheric pressure	None
Air velocity	0-300 fpm
Humidity	0% to 95% RH (no condensation or icing)
IP rating	IP44
Weight	2.93 ounces (83g)
Dimensions	4" (100mm) diameter x 1.5" (38mm height) 2" (50 mm) height with XPERT8 Intelligent Mounting Base
Materials	Housing: White flame-retardant polycarbonate. Terminals: Tin-plated stainless steel

All data is supplied subject to change without notice. Specifications are typical at 24 V, 73° F and 50% RH unless otherwise stated.

Order Codes and Options

SA5050-350ADV	Advanced XP95A Multicriteria Detector
SA5000-210ADV	Axis AX UL Base - 4"
SA5000-230ADV	Axis AX UL Base - 6"

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Advanced XP95A Heat Detector

The XP95A Heat Detector monitors temperature by using a single thermistor which provides a voltage output proportional to the external air temperature. It is classified as an ordinary detector by UL

Electrical description

The XP95A Heat Detector is designed to be connected to a two wire loop circuit carrying both data and a 17 V to 28V dc supply. The detector is connected to the incoming and outgoing supply via terminals L1 and L2 in the mounting base. A remote LED indicator requiring not more than 1 mA may be connected between the +R and L2 terminals. An earth connection terminal is also provided. The detector is calibrated to give an analogue value of 25±5 counts at 70OF. This value increases with rising temperature. A count of 55 corresponds to the UL alarm sensitivity level of 135ºF.

When the detector is energized the ASIC regulates the flow of power and controls the data processing. The thermistor provides an output over normal operating ranges that is proportional to the external air temperature. The voltage output is processed in the analogue to digital converter and stored by the communications ASIC. It is transmitted to the control equipment when the device is interrogated. When a count of 55 is exceeded the alarm flag is initiated and the device address is added to the data stream every 32 polling cycles from its last polling for the duration of the alarm level condition, except when an alarming device is being interrogated. This can provide a location identified alarm from any device on the loop in approximately two seconds.

Operation

The XP95A Heat Detector has a common profile with the ionisation and optical smoke detectors but has a low air flow resistance case made of white polycarbonate. The device monitors heat using a single thermistor network which provides a voltage output proportional to the external air temperature.

Environmental characteristics

The XP95A Heat Detector range is unaffected by wind or atmospheric pressure. Standard detectors are rated at 200 ºF.



Features

- Compatible with all devices from the latest UL268 7th Edition approved XP95A range
- Electronic temperature sensing
- Easy installation
- XPERT card addressing
- Electronic free 4” or 6” bases
- Ideal for environments that are dirty or smoky under normal circumstances
- Well suited for warehouses, loading docks and parking areas

Listings and Approvals

- Approved to UL521 7th Edition

This detector is a direct replacement for the 55000-450AEL XP95A heat detector.

Specification

Digital communication protocol	XP95
Sensor	Single NTC thermistor
Sampling frequency	One second
Supply voltage (Vmin-Vmax)	17-28 Vdc
Modulation voltage	5-9V peak to peak
Supervisory current	250 µA
Switch-on surge current	1.0 mA
Alarm/operated current	3.0 mA
Product operating temperature	32° F to 131° F (0° C to 55° C)
Humidity	0% to 95% RH (no condensation or icing)
Weight	3.70 ounces
Dimensions	3.93" diameter x 1.65" height
Materials	Housing: White flame-retardant polycarbonate. Terminals: Tin-plated stainless steel

All data is supplied subject to change without notice. Specifications are typical at 24 V, 73° F and 50% RH unless otherwise stated.

Order Codes and Options

SA5500-450ADV	Advanced AX XP95A Smoke Detector
SA5000-210ADV	Axis AX UL Base - 4"
SA5000-230ADV	Axis AX UL Base - 6"

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As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.