



AX-9HL

Analog Addressable Heat Detector

Features:

- Dual LED alarm indicators for 360° viewing angle
- Built-in output circuit to drive external LED indicator
- Electronic thermistor sensor is used for long term accuracy & reliability
- Micro controller based design with non-volatile memory
- Standard and isolator base
- Soft or hard addressing programming mode

Principles of operation:

The operation of Mictron Series AX Rate of Rise (ROR) & Fixed Temperature heat detector is based on thermistor as sensor, and suitable electronic circuitry whose characteristics change linearly with the temperature.

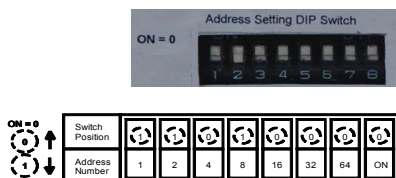
With a built-in microprocessor and analog converter in the circuit, the input signal from the thermistor is processed to determine the fire condition. If the changes in temperature reached the threshold value, or the rate of rise exceeded the pre-program alarm value, a signal is sent to the main fire alarm system.

The heat detector is suitable for places with presence of steam or fumes, such as kitchen or engine room.

Programming:

The address of the AX devices can be set by a built-in DIP switch or a portable tester as followed:

Hard Addressing:



Example: switch 1 & 4 is off, all other switches are on, the address is 1+8=9

Each loop can interface up to 126 devices.
(the address 0 & 127 is reserved for manufacturer debugging usage)

Soft Addressing:



The tester has a built-in detector base and wire terminals to set address of all AX devices. It can also be used as a viewer to read the analog value of the devices, as well as turning on/off the LED indicator or output.

LED Indication:

Normal condition: The LED will flash once every 2-4 seconds when polled by the main alarm panel in standby mode.

Address Crash condition: The LED will flash twice or more within 2 seconds to indicate that there is another device (or devices) on the loop with the same address.

Alarm condition: The LED will be latch on in alarm condition as instructed by main alarm panel.

Technical Specification:

Brand	: Mictron
Model	: Series AX
Part Number	: AX-9HL
Quiescent Current	: 500uA
Alarm Current	: 4mA
Operating Voltage	: 17-28V DC
Type	: ROR & Fixed Temperature
Sensor Source	: Thermistor
Sensitivity	: 57°C fixed temperature
Temperature range	: -10 to 50°C
Operating Humidity	: 95% RH (Non condensing)
Output driver	: 2mA (open collector)
Weight	: 150g with base
Material	: ABS
Dimension	: 100mm X 46mm with base
Colour	: White
Approved Standard	: EN54-5, DIFT
Certificate Number	: 0845-CPD-232.1261

Optional Isolator Base (AX-9SCi):



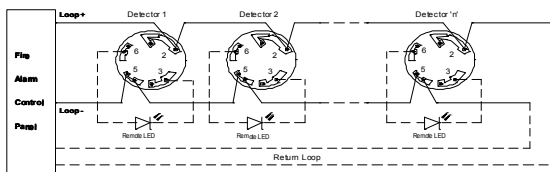
Isolator base may be use to replace normal base, the incoming wire & the out going wires will be cut off if a short circuit is detected.

Not more than 20 isolators base should be installed for a loop of devices.

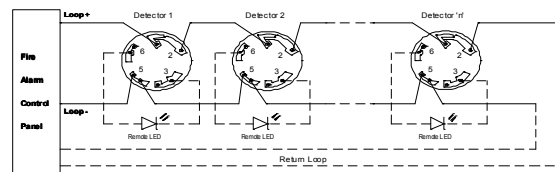
Dimension:



Wiring Detail:



Wiring Diagram of Detectors to Fire Alarm Control Panel (Parallel Connection)



Wiring Diagram of Detectors to Fire Alarm Control Panel (IN-OUT Connection)

Ordering Information:

Part Number	Description
AX-9HL	Heat Detector With Base (1 set)
AX-9HL-H	Heat Detector Head Without Base
AX-9HL-B	Detector Standard Mounting Base
AX-9SCi	Detector Isolator Mounting Base

Micro-CTL reserves the right to alter specification of its product without prior notice