MIX-4020 / MIX-4020-ISO

Features

- Any combination of MIX-4000 series devices up to 240 can be connected on a single SLC.
- Different LED colors for Alarms and Troubles.
- Detection of smoke using advanced software algorithms using complementary thermal sensor.
- Advanced protection against nuisance alarms caused by dust, insects or other debris
- Multiple sensitivity settings.
- Compatible with the full series of MIX-4000 input and control modules.
- The device can be secured by a unique Anti-Tamper feature.
- The address is set with the hand-held device programmer (MIX-4090)
- MODEL OPTION - Built-in short-circuit isolator (MIX-4020-ISO)

Description

The MIX-4020/MIX-4020-ISO multi-criteria detector is a hardwired sensor that continuously monitors the environment to provide early warning of a fire condition and communicates with the panel using a fully digital protocol.

The MIX-4020/MIX-4020-ISO provides a higher level of nuisance alarm rejection as compared with single-criteria sensors leveraging both smoke and heat sensing elements.

The MIX-4020/MIX-4020-ISO works with an MGC compatible control panel supporting high rates of information exchange with reliable and secure bi-directional communication.

The detector is addressed and programmed using the MIX-4090 hand-held device. Addresses can be selected from a range of 1 -240.

This detector ships with a dust cover to protect the device during installation and prior to commissioning.

Two tri-color LEDs on the device provide 360 degrees of status visibility.

A remote LED indicator can be wired directly to the sensor.

Benefits

- Open style mounting bases offer easy wiring and low pressure locking.
- 4" or 6" base options available.
- Remote output can be controlled by the panel.
- MIX-4020-ISO is equipped with a bi-directional short-circuit isolator to protect against wiring faults and loop failure.
- Low standby current.
- Base has detachable tab for labeling device address.
- Leverages interrupts to quickly report alarm conditions to fire alarm control panels.
- Magnet test option helps with commissioning and maintenance.

CATALOG NUMBER
9502

Technical Specifications

Normal Operating Voltage	15 to 30VDC
Maximum Alarm Current	3.2mA (LED on)
Standby Current	160µA
UL/ULC Listed Temperature Range	32ºF to 100ºF (0ºC to 37.8ºC)
Operating Temperature	15ºF to 120ºF (-9ºC to 49ºC)
Humidity	10% to 93% Non-condensing
Wiring range on terminals	22 to 12 AWG
Diameter	4.25"
Height	1.75"

Detector LED colors	Description
RED (Steady on)	ALARM condition
GREEN (Flash)	NORMAL condition
AMBER (Steady on)	FAULT condition

Heat Detection Settings		
135ºF (57ºC)		
135ºF with rate of rise as per UL268		

Sensitivity Level	Typical	Note
LEVEL 1	2.0%/FEET	Most Sensitive level
LEVEL 2	2.5%/FEET	Sensitivity level
LEVEL 3	3.0%/FEET	Sensitivity level
LEVEL 4	3.5%/FEET	Least Sensitive Level

Ordering Information

Model	Description
MIX-4020	Multi-Criteria/Multi-Sensor (Non-Isolated)
MIX-4020-ISO	Multi-Criteria/Multi-Sensor (with built-in short circuit isolator)
MIX-4001	6" Detector Base
MIX-4002	4" Detector Base
MIX-4003-S	Sounder Base
MIX-4003-R	Relay Base
MIX-4003-LF	Low Frequency Sounder Base
MIX-4090	MIX-4000 Series Addressable Device Programmer

MGC™

Canada
25 Interchange Way Vaughan, ON L4K 5W3
Telephone: (905) 660-4655 | Fax: (905) 660-4113

U.S.A.
4575 Witmer Industrial Estates Niagara Falls, NY 14305
Toll Free: (888) 660-4655 | Fax Toll Free: (888) 660-4113

www.mircom.com

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