

## Technical Data

|                                 |   |   |  |  |
|---------------------------------|---|---|--|--|
| <b>Detector model no.</b>       | MIX-3300  | MIX-3000  | MIX-3100   | MIX-3200   |
| <b>Detector type</b>            | Heat  | Ionization  | Photoelectric  | Multisensor  |
| <b>Working voltage</b>          | 17–28V dc   | 17–28V dc   | 17–28V dc  | 17–28V dc  |
| <b>Modulation voltage</b>       | 5–9V  | 5–9V  | 5–9V   | 5–9V   |
| <b>Maximum alarm current</b>    | 3.4mA   | 3.5mA   | 3.4mA  | 3.5mA  |
| <b>Surge current</b>            | 1.0mA   | 0.5mA   | 1.0mA  | 1.0mA  |
| <b>Supervisory current</b>      | 500µA   | 500µA   | 400µA  | 500µA  |
| <b>Heat element rating</b>      | Mode 1 129°F (54°C)<br>Mode 5 212°F (100°C)                     | N/A   | N/A  | Mode 5 135°F (57°C)  |
| <b>Test method</b>              | •Hair dryer   | •Home safe-guard Sensitivity test<br>•No Climb<br>•Gemini 501 | •Home safeguard Sensitivity test<br>•No Climb<br>•Gemini 501 | •Home safeguard Sensitivity test<br>•No Climb<br>•Gemini 501<br>•Hair dryer (heat sensor only)               |
| <b>Installation temperature</b> | Minimum 32°F (0°C)<br>Maximum at least 20°F (11°C) below rating | Minimum 32°F (0°C)<br>Maximum 100°F (38°C)                    | Minimum 32°F (0°C)<br>Maximum 100°F (38°C)                   | <b>Mode 1-4</b> Minimum 32°F (0°C)<br>Maximum 100°F (38°C)<br><b>Mode 5</b> Minimum 32°F (11°C) below rating |

### Compatibility Information

These smoke and heat detectors have been approved by Underwriters Laboratories Inc. For details of compatible control panels, please contact Mircom.



## Alpha Smoke & Heat Detectors Installation Instructions

### General

These instructions apply to the MIX-2000 standard base and the MIX-2001 E-Z Fit base and MIX-3300, MIX-3000, MIX-3100, MIX-3200 detectors.

### Installation

These products must be installed in accordance with the applicable NFPA standards, local codes and jurisdictional authorities. Failure to follow these instructions may result in failure of the detectors to report an alarm condition. Mircom is not responsible for detectors which are improperly installed, maintained and tested.

Before installing these products check the continuity, polarity and insulation resistance of all wiring. Check that sitting is in accordance with the fire system drawings and conforms to all applicable local codes such as NFPA 72.

Use 3" octagonal box for direct connection to the base. 4" octagonal and 4" square boxes may be used with proper UL listed mounting brackets. When mounting on a wall, install 4" to 12" from the ceiling. Use 3M Weatherban 606 Non-Flammable sealing compound (or equivalent) to seal field wiring conduit opening in the electrical box, this will reduce the stack effect. Secure the base to the electrical box with appropriate screws. **Do not overtighten the screws.** The raised mark on the side of the base indicates the direction of the detector LED when fitted. Connect the shield, if required, to the SHIELD terminal on the base. For information on how to set the address of each device correctly refer to the section 'Address Setting' overleaf.

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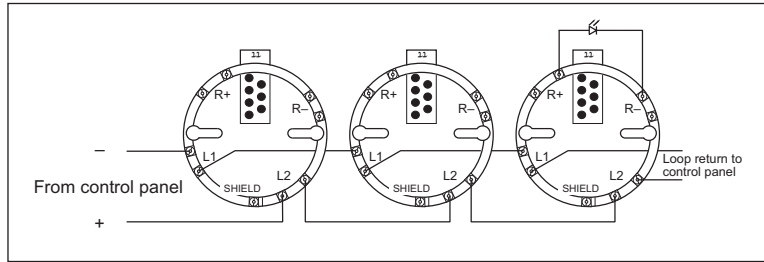
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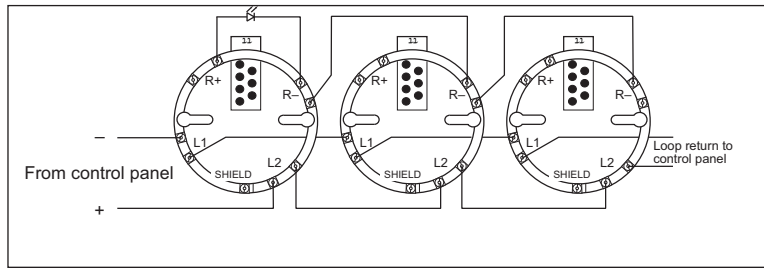
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## Wiring

**CAUTION:** Do not use looped wire under terminals L1 and L2. Break wire run to provide supervision of connections. Terminals L1 and L2 are polarity insensitive.



**Fig 1** Wiring diagram of loop with one remote indicator



**Fig 2** Wiring diagram of loop with common remote indicator

The above instructions cover the following base models:

- MIX-2000 Standard base
- MIX-2001 6" E-Z Fit base

## Address Setting

Refer to the table below for the complete list of address settings. Select the desired address and remove the pips indicated in black. Remove pips with a small screwdriver.

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  |
| 31  | 32  | 33  | 34  | 35  | 36  | 37  | 38  | 39  | 40  | 41  | 42  | 43  | 44  | 45  |
| 46  | 47  | 48  | 49  | 50  | 51  | 52  | 53  | 54  | 55  | 56  | 57  | 58  | 59  | 60  |
| 61  | 62  | 63  | 64  | 65  | 66  | 67  | 68  | 69  | 70  | 71  | 72  | 73  | 74  | 75  |
| 76  | 77  | 78  | 79  | 80  | 81  | 82  | 83  | 84  | 85  | 86  | 87  | 88  | 89  | 90  |
| 91  | 92  | 93  | 94  | 95  | 96  | 97  | 98  | 99  | 100 | 101 | 102 | 103 | 104 | 105 |
| 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
| 121 | 122 | 123 | 124 | 125 | 126 |     |     |     |     |     |     |     |     |     |