

Commissioning

It is important that the system be fully tested after installation. Check that the fire detection and alarm system and the system controlled by the relay operate correctly.

LED Indicators

Never connect a remote LED (or any other device) to the -R and +R terminals. Use the terminals marked R1 and R2.

Troubleshooting

Before investigating individual units for faults, it is very important to check that the system wiring is fault free. Shield continuity faults on a data loop or any ancillary zone wiring may cause communication errors.

Many fault conditions are the result of simple wiring errors.

Technical Data

Environment	indoor, non-icing, non-condensing
Operating temperature	0°F (-20°C) to 155°F (54°C) 32°F (0°C) to 100°F (38°C) (UL approved continuous operating range)
Humidity	0 to 95%RH
Base material	white polycarbonate V-0 to UL94

Electrical

Supply voltage	17–28V dc plus protocol voltage pulses
Relay reset current	<1µA
Standby Current	0mA @ 24VDC
Alarm Current	
External Supply:	46mA @ 24VDC
Associated Detector:	2mA @ 24VDC
Surge current	5mA, 250ms
Contact ratings	1A at 30V dc resistive, 0.3A at 75V dc resistive, 0.7A at 50V ac resistive



Alpha Low Power Relay Base Installation Instructions

General

The Alpha Low Power Relay Base, part no MIX-2001R, is intended for use only with Alpha fire detectors and a compatible control panel. It incorporates a relay to control field equipment.

The relay is controlled by the detector and must therefore be fitted with an Alpha detector in order to function. The detector is powered via the base from the normal loop voltage of 17–28V dc.

Control panel compatibility

The base must be used with Alpha detectors connected to an Alpha compatible control panel.

Where local codes allow, they may be used to provide volt-free control signals to an auxiliary system such as an automatic door closer. **They are not suitable for use in systems where it is specified or required that operation of the auxiliary system shall be fail-safe.**

Warning

These bases must not be connected to a mains supply. The maximum voltage applied to the relay contact terminals must not exceed 50V ac and 75V dc.

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Installation

The Alpha Low Power Relay Base 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 relay bases check the continuity, polarity and insulation resistance of all wiring. Check that siting 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'.

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.

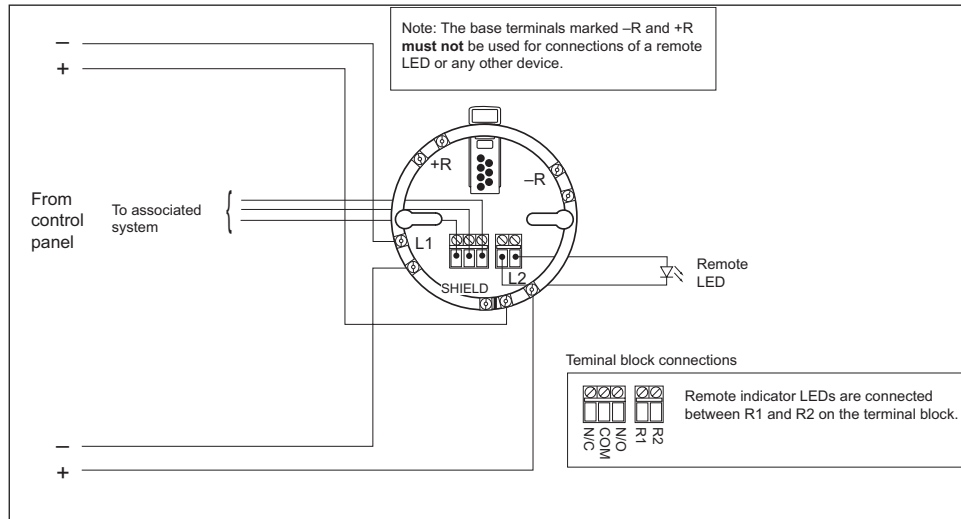


Fig 1 Alpha Low Power Relay Base wiring diagram

Address Setting

Refer to the table below for the complete list of address settings.

