



## Series 65A Smoke & Heat Detectors Installation Instructions

### General

These instructions apply to the 4" mounting base, part no 45681-200, the 6" mounting base, part no 45681-220, the low profile base, part no 45681-232 and the 6" E-Z Fit base, part no 45681-251, for installing Series 65A smoke and heat 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. Apollo Fire Detector Limited 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 siting 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 stacking 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.

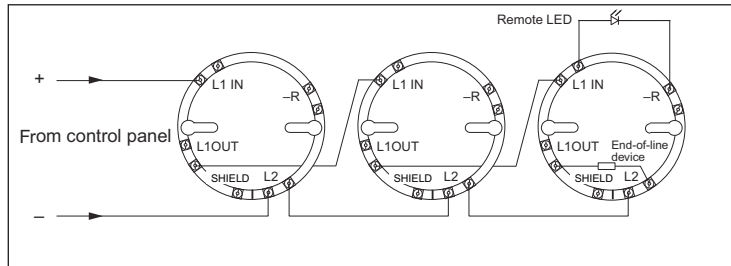
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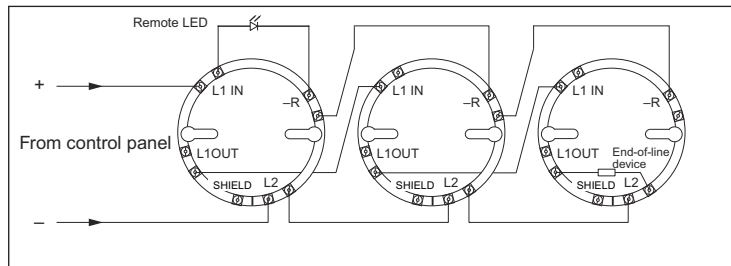
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## Wiring

**CAUTION:** Do not use looped wire under terminal L2. Break wire run to provide supervision of connections.



**Fig 1** Wiring diagram of Series 65A zone



**Fig 2** Wiring diagram of Series 65A zone with common remote indicator

The above instructions cover the following base model:

- 45681-200 4" mounting base
- 45681-220 6" mounting base
- 45681-232 low profile base
- 45681-251 6" E-Z Fit base

## Technical Data

<b>Detector Model No</b>	55000-138, 139, 140, 141, 142, 143, 144, 145, 146	55000-225, 226, 227	55000-325, 326, 327, 328
<b>Detector Type</b>	Heat Rate-of-Rise/Fixed Temperature	Ionization	Photoelectric
<b>Working Voltage</b>	9–33V DC	9–33V DC	9–33V DC
<b>Maximum Alarm Current</b>	17mA at 9V, 52mA at 24V	17mA at 9V, 52mA at 24V	17mA at 9V, 52mA at 24V
<b>Surge Current</b>	0mA	0mA	0mA
<b>Supervisory Current</b>	40–50µA at 9V, 45–55µA at 24V	40–50µA at 9V, 45–55µA at 24V	40–50µA at 9V, 45–55µA at 24V
<b>Heat Element Rating</b>	55000-138, 139, 140 55000-141, 142, 143 55000-144, 145, 146	Ordinary (135°F/57°C) Ordinary (170°F/77°C) Intermediate (200°F/93°C)	N/A N/A
<b>Compatibility Identifier</b>	55000-138, 139, 140, 141, 142, 143, 144, 145, 146	55000-225, 226, 227	55000-325, 326, 327, 328
<b>Test Method</b>	Magnet or hair dryer	Magnet or Gemini 501	Magnet or Gemini 501
<b>Installation Temperature</b>	Minimum 32°F (0°C) Maximum at least 20°F (11°C) below rating	Minimum 32°F (0°C) Maximum 158°F (70°C)	Minimum 32°F (0°C) Maximum 140°F (60°C)
<b>Control Panel</b>	Refer to <a href="http://www.apollo-fire.co.uk">www.apollo-fire.co.uk</a> for compatible panels		