

Cautions



ELECTRICAL HAZARD: Disconnect power from equipment prior to making any internal adjustments. Service should only be performed by qualified personnel.

FRAGILE: Inspect the equipment prior to installation. Do not install the equipment if damage is apparent. Do not attempt to disassemble this equipment. If damaged, return to the supplier.

ELECTROSTATIC HAZARD: This is sensitive electronic equipment. Apply safe ant-static practices when handling this equipment.

CIRCUIT LIMITATIONS: The maximum number of devices connected to a single alarm zone is limited by the control and indicating equipment, and may be limited by local regulations.

Introduction

The 442 non-addressable audio/visual alarm devices are suitable for connection to 2-wire and 4-wire fire detection and alarm systems. 442 will operate with both non-addressable and addressable¹ fire detection control and indicating equipment. Activation is initiated upon connection of the operating voltage.

Preparation

Before commencing installation, ensure all equipment and tools to mount and connect the equipment are available, such as drills, mounting screws, cables and ladders.

442 audio/visual alarm devices can be installed with the following bases and accessories.

Description	Part number	Datasheet
3-terminal 99 mm low profile continuity base, red	487-004	31-0117
5-terminal 99 mm low profile continuity base, white	487-008	31-0117

Installation

Base

The base can be mounted directly onto an electrical junction box such as an octagonal (75 mm, 90 mm or 100 mm), a round (75 mm), or a square (100 mm) box without using any type of mechanical adapter.

Wiring

Base terminals accept (0.4 ~ 2.5) mm² conductors.

- Strip the conductor insulation to expose 5 mm of the conductor.
- Connect the conductors to the base terminals.
 - See Fig. 1 for single trigger alarms.
 - See Fig. 2 for dual trigger alarms.



WARNING: Take care to ensure the insulation does not get clamped by the terminal contact.

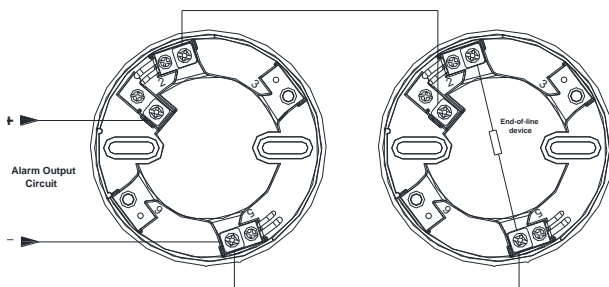


Fig. 1: Base wiring connections for single trigger alarms

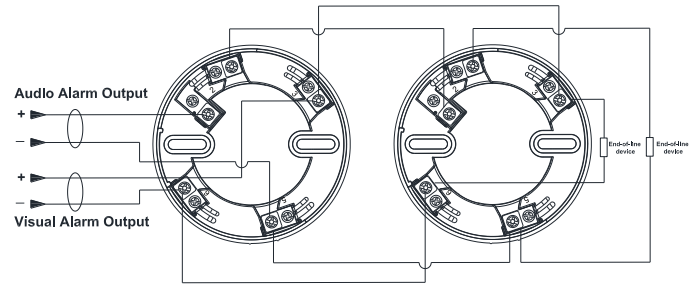


Fig. 2: Base wiring connections for dual trigger alarms

WARNING: Do not short-circuit terminals 2 and 5.

- Check the wiring for continuity, short circuits.



Audio/Visual Device

- Align the device alignment mark with the short alignment mark in the base, as shown in Fig. 2.
- Mate the body onto the base and rotate it clockwise to secure it. The long alignment marks should be aligned.

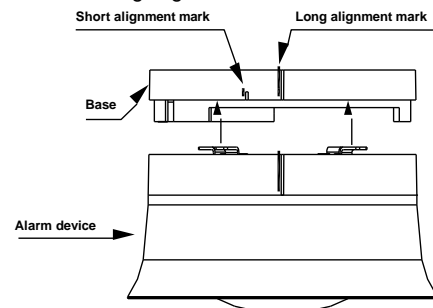


Fig. 2: Fitting the audio/visual alarm device to the base

Commissioning

Audio/Visual Alarm Device

- Ensure all releasing devices and extinguisher systems are disabled during the commissioning period.
- Configure a control and indicating equipment alarm output relay to supply power to the device in the Alarm condition.
- Activate an Alarm condition at the control and indicating equipment.
- Check that the audio/visual alarm device operates.
- Reset the control and indicating equipment.
- Check that the audio/visual alarm device stops operating.

Final Conditions

Ensure all the alarm signal services, releasing devices and extinguisher systems disabled for the commissioning are returned to their previous condition.



References

Document	Description
31-0050	442 non-addressable audio/visual alarm datasheet

View the complete range of products at www.numens.com



¹ May be used with Numens addressable output modules.