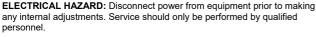


SNA-360 addressable smoke detector

Installation Instructions

Cautions





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 detectors connected to a single detection zone is limited by the control and indicating equipment, and may be limited by local regulations.



SNA-360 analogue addressable photoelectric smoke detectors are microprocessor controlled state-of-the-art detectors suitable for connection to Numens 2-wire addressable fire detection control and indicating equipment.

These instructions provide trained installation personnel with details to install and commission SNA-360 smoke detectors for optimum performance.



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

SNA-360 smoke detectors can be installed with the following bases and accessories.

Description	Part number	Datasheet
4-terminal 102 mm low profile base	CN302A	31-0036
8-terminal 102 mm low profile base	CN304A	31-0038
Remote indicator ^a	681-001	31-0027

^a Requires 8-terminal base

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.

- Feed the conductors through the middle of the base for termination to the base contacts.
- Mount the base on the junction box or directly onto a flat surface.
- 3. Mount the base to the surface using fixing screws that are suitable to securely fix the base to the surface.

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 as shown in Fig. 1.

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

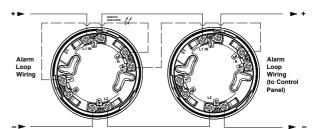


Fig. 1: Base wiring connections

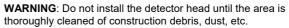
Note 1: 8-terminal base required if a remote indicator is installed.

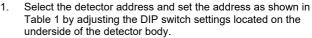
Note 2: If a remote indicator is not installed, the polarity of the zone circuit wiring may be reversed.

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

Check the wiring for continuity, short circuits and earth faults.

Detector





Note: Addresses 0, 126 and 127 cannot be used.

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

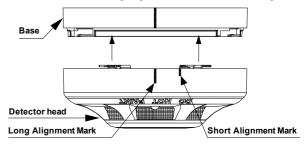


Fig. 2: Fitting the detector to the base

Commissioning

Smoke Detector

- Ensure all the alarm signal services, releasing devices and extinguisher systems are disabled during the commissioning period.
- Connect power to the detector for approximately 1 min.
 Check that the detector is recognized and in the quiescent condition at the control and indicating equipment. If the detector is not shown or shows in fault, check the wiring for the correct voltage and earth leakage. Replace the detector if necessary.
- Allow smoke from a cotton wick or a test smoke aerosol to enter the detector-sensing chamber for at least 10 s. When sufficient smoke has entered the chamber, the detector will signal an alarm, by continuous illumination of the LED.
- 4. Upon alarm, immediately remove the smoke source.
- 5. Reset the detector from the control and indicating equipment.
- Check that the detector LEDs are off and the control and indicating returns to the quiescent condition.

Remote Indicator (where fitted)

Check that the indicator illuminates at the same time as the detector LED.

Final Conditions

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

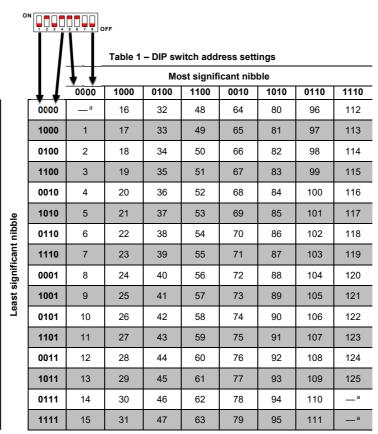


References

Document	Description
31-0043	SNA-360 analogue addressable smoke detector datasheet

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





^a Address not permitted.