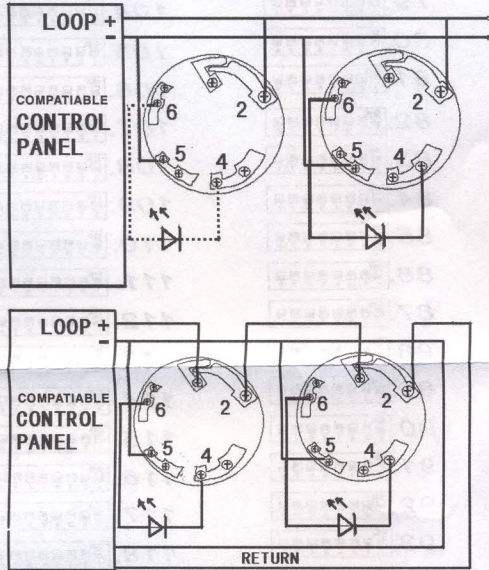


NB-358D SERIES, Addressable Photoelectric Smoke And/or ROR & Fixed Temperature Heat Detector Installation Wiring Diagram

TYPICAL WIRING DIAGRAM



Note: Don't install terminal 4 and 6 for the models without remote LED output.

THE NB-358 SERIES REQUIRE COMPATIBLE ADDRESSABLE COMMUNICATIONS TO FUNCTION PROPERLY. MOREOVER,

THE INSTALLATION MUST BE IN COMPLIANCE WITH THE CONTROL PANEL SYSTEM INSTALLATION MANUAL.

WARNING

TO PREVENT DETECTOR CONTAMINATION AND SUBSEQUENT WARRANTY CANCELLATION, THE SMOKE DETECTOR MUST REMAIN COVERED UNTIL THE AREA IS CLEAN AND DUST FREE.

GENERAL DESCRIPTION

NB-358D series are the photoelectric smoke detectors and/or ROR & Fixed temperature detectors combined with advanced addressable-analog communications. The DIP switches are provided for setting the detector's address.

NB-358D-S: Analogue addressable smoke detector

NB-358D-S-L: Analogue addressable smoke detector with remote LED output

NB-358D-SH: Analogue addressable smoke and rate-of-rise and fixed temperature heat detector

NB-358D-SH-L: Analogue addressable smoke and rate-of-rise and fixed temperature heat detector with remote LED output

NB-358D-H: Analogue addressable rate-of-rise and fixed temperature heat detector

NB-358D-H-L: Analogue addressable rate-of-rise and fixed temperature heat detector

Note: The base model no. for NB-358D-S, NB-358D-SH and NB-358D-H is P/N772912. The base model no. for NB-358D-S-L, NB-358D-SH-L and NB-358D-H-L is P/N774912.

INSTALLING THE BASE

- To insure proper installation of the detector head to the base, all the wires should be properly addressed at installation:
 - Position all the wires flat against terminals.
 - Fasten the wires away from connector terminals.
- The detectors are intended for mounting on a ceiling or a wall at open area must be in accordance with the fire standard in your country.
- The base of the smoke detector can be mounted directly onto an electrical junction box such as an octagonal (75mm, 90mm or 100mm), a round (75mm), or a square (100mm) box without using any type of mechanical adapter.

INSTALLING THE HEAD

- Set the desired address via DIP switch on the back of the detector, see ADDRESS SETTING section.

- Align the components as shown in Figure 2.
- Mate the detector head onto the base and twist clockwise to secure it.
- After all detectors have been installed, apply power to the control unit and activate the communication line.
- Test the detector(s) as described in the TESTING section of this manual.

Note: Do not install the detector head until the area is thoroughly cleaned of construction debris, dusts, etc. Please refer to control panel technical information to decide the maximum number of detector installed in the same loop.

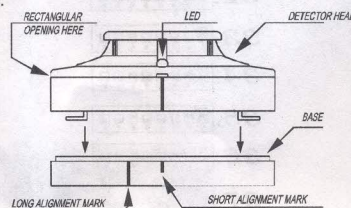


Fig.2 Mating detector head onto base

Fig. 2 Mating detector head onto base.

TESTING

All the alarm signal services, releasing device and extinguisher system should be disengaged during the test period and must be re-engaged immediately at the conclusion of testing.

SMOKE SENSOR TESTING

Allow smoke from a cotton wick or a test smoke aerosol to enter the detector-sensing chamber for at least 10 seconds. When sufficient smoke has entered the chamber, the detector will signal an alarm, this being visible by a continuous illumination of the red LED. Make sure to drive smoke out of the chamber before reset LED in order to keep the detector a current sensitivity. If the alarm fails in this step, it indicates a defective unit, which require to be returned to the distributor for servicing.

HEAT SENSOR TESTING

The detector to be tested should be subject to a flow of warm air at a temperature of between 65°C and 80°C. (This requirement can be met by some domestic hair dryers). Proceed as follows:

- Switch on the warm airflow and check that temperature is correct and stable.
- From a distance of several inches, direct the airflow at the guard protecting the thermistor. The detector should alarm within 60 seconds.
- Upon alarm immediately remove the heat source and check that the red LED of the detector is illuminated.
- If detector fails to go into alarm mode within 60 seconds it is too insensitive and needs to be returned to the distributor for servicing.

NOTE: After testing, check that the system is set for normal operation and notify the appropriate authorities that the testing operation is complete and the system is active again.

NOT SUITABLE FOR INSTALLATION IN AREAS WHERE AIR VELOCITIES EXCEED 300 ft/min

MAINTENANCE

The recommended minimum requirement for detector maintenance consists of an annual cleaning of dust from the detector head by using a vacuum cleaner cleaning program should be agreed to the individual environment in conformance with the fire standard in your country.

CAUTION: DO NOT ATTEMPT TO DISASSEMBLY OF THE FACTORY SEALED SMOKE DETECTOR. THIS ASSEMBLY IS SEALED FOR YOUR PROTECTION AND IS NOT INTENDED TO BE OPENED FOR SERVICING BY USERS. OPENING THE DETECTOR HEAD WILL VOID THE WARRANTY.

REFERENCE TO THE TECHNICAL BULLETIN ISSUE NO. NBTB20040806 REV.A

ADDRESS SETTING.

- Please refer to fig.3 to via DIP SWITCH to set detector address.

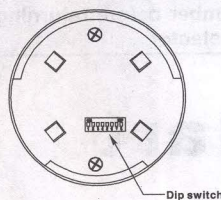


Fig.3: the location of dip switch