

Installation Instruction Model BDS031A

Addressable Heat Detector

These instructions are written in accordance with the installation guidelines of NFPA 72, National Fire Alarm Code, The installation of Fire Alarm Systems.

Features

- I Comply with UL521.
- I Modern design with innovative circuit structure to meet the highest requirements of fire detection.
- I High immunity to contamination, electromagnetic interference, humidity and corrosion.
- I Precise maximum temperature and rate-of-rise alarm activation with high-precision thermo sensors.
- I High reliability and circuit stability achieved by fully automatic manufacturing and stringent inspection processes.

Application

- I The heat detector is suitable for monitoring rooms and installations in which a rapid increase in temperature is to be expected, if fire happens.
- I It can be used also for where other types of detectors can not be used because working environment contains smokes, dust, exhausted gases etc.
- I Can be connected to BC80 series control units by BDS000A base via detection bus.
- I 2-wire detection-bus (polarity free) allowing transmission distance up to 1,000m (twisted pair wire 18 AWG; evenly distributed devices).
- I Up to 127 detectors on each line.

Technical Specification

Items	Value
Operating Voltage	18~26VDC
Quiescent Current	≤0.8mA
Alarm Current	≤1.0mA
Electromagnetic Compatibility	20V/m
Rate of Rise Temperature Rate	11.1 °C/min
Activation Temperature Rate	63 °C
Operative temperature	0-38 °C

Installation

Detector placement should follow the drawings provided or approved by Siemens Building Technologies or by its authorized distributors. This is extremely important! The detector placements shown on these drawings were chosen after a careful evaluation of all facets of the protected area, such as air currents, temperature, humidity, pressure, the nature of the fire load and type of ceiling etc. When

Figure 1
BDS031A



drawing is not available, refer to relevant items of NFPA 72.

Detector base for SIEMENS Model BDS031A should be connected as shown in Figure 2.

To install detector head:

- I Set the detector address by Dip-Switch according to drawings provided or approved by Siemens Building Technologies or by its authorized distributors.
- I Align the LED in detector with the positioning symbol on base and insert detector into base.
- I Rotate the detector clockwise until it stops.

To remove detector head:

- I Rotate the detector counter clockwise until stop is reached.
- I Pull detector out of base.

Note:

- I Do not install detector until all construction is completed.
- I It is recommended wiring with twisted-pairs from base to base, the wiring requirement is 18 AWG to 14 AWG.

Operation

LED indicator

Status	Condition
Flash	Alarm
Off	Normal supervisory operation

Maintenance and Storage

- I Cleaning intervals should be geared to the individual environment.
- I Do not store detectors where it can be contaminated by dirt, dust or humidity. It should be stored with sealed packaging.

Order Information

Type	Description	Stock Code
BDS031A	Addressable heat detector	A5Q00016746
BDS000A	Base for addressable detector	A5Q00016958

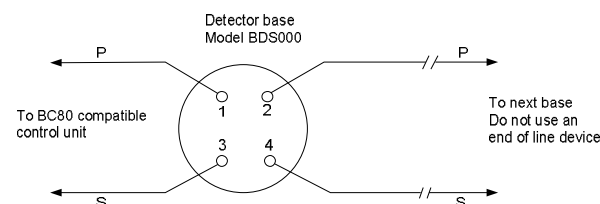


Figure 2 Installation and wiring diagram