

SIEMENS

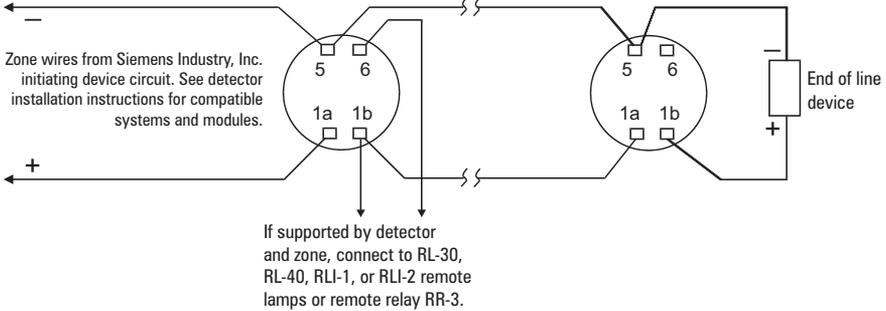
Installation Instructions

Base Models DB-3S/X3RS

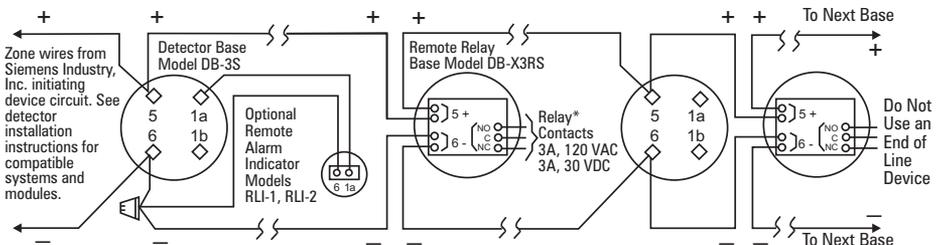
This installation guideline is written in accordance with the installation guidelines of NFPA 72, National Fire Alarm Code and CAN/ULC-S524, The Installation Of Fire Alarm Systems.

INSTALLATION/WIRING DIAGRAM FOR SIEMENS MODEL DB-3S USING CONVENTIONAL DETECTORS

CAUTION: Do not use looped wire under terminal 5. Break wire run to provide supervision of connection.



INSTALLATION/WIRING DIAGRAM FOR SIEMENS MODELS DB-3S AND DB-X3RS USING IL SERIES DETECTORS OR FP SERIES DETECTORS



* The relay contacts are shown after a system reset pulse, which represents the non-alarm condition. The contact state may vary prior to system initialization.

Figure 1
Installation/Wiring Diagram

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Florham Park, NJ

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P/N 315-083225-15

DETECTOR PLACEMENT

Although no specific spacings are allocated to these detectors, maximum 30 foot center spacing (900 sq ft) from NFPA Standard 72 Chapter 5 and CAN/ULC-S524 may be used, if practical, as a guide or starting point in a detector installation layout. This spacing, however, is based on ideal conditions - smooth ceiling, no air movement, and no physical obstructions.

In all installations (except in special circumstances, such as in computer room underfloors), locate the detector on the ceiling, a minimum of 12 inches from a sidewall, or on a wall, between 4 and 6 inches from the ceiling.

Should questions arise regarding detector placement, follow the drawings provided or approved by Siemens Industry, Inc. 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 area protected.

Environmental factors such as air currents, temperature, humidity, pressure, and the nature of the fire load are carefully considered. Special consideration is given to room or area configuration and the type ceiling (sloped or flat, smooth or beamed). Siemens Industry, Inc.'s extensive experience in the design of the system assures the optimum detector placement and is reflected in these drawings. The sound engineering judgment of qualified personnel must be followed.

DETECTOR WIRING

Siemens Industry, Inc.'s detectors should be interconnected as shown in Figure 1 and wired to the control panel following the wiring connection drawing installed on the inside face of each control panel cover. Duplicate wiring information is also in the Installation, Operation, and Maintenance Manual provided with every control panel. Note any limitations on the number of detectors permitted on each circuit.

DETECTOR MOUNTING - USING THE DB-3S

The detector is provided with a separate base which attaches to a standard 4 inch square, 4 inch octagonal, or single gang electrical box, with the box size and depth required by the NEC for the number and size of conductors used.

MOUNTING - USING THE DB-3S

1. Route all wires outward from outlet box.
2. When the ALARM LED viewing is critical, position the LED mark in the base in the intended direction. Refer to Figure 2.

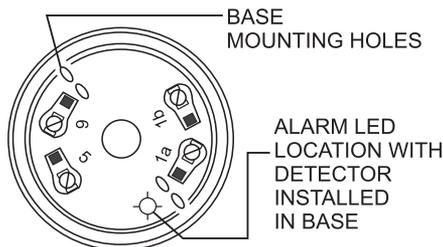


Figure 2
Mounting the Base

3. Mount base to outlet box and route wires through the hole in the center of the base. Make connections directly to the base terminals. Refer to Figure 1 for details.
4. After all bases are installed, including the end-of-line device, check loop continuity. Refer to the System Manual for the loop continuity check procedure. To make possible the continuity check, a jumper is furnished in every base (between terminals 1a and 1b) to complete the loop. (Refer to Figure 2.) An open circuit condition exists until the jumper or detector is installed in the base.
5. If loop continuity is acceptable, remove the jumper at each base and proceed with detector head installation.
6. To insure proper installation of the detector head into the base:
 - a. Properly dress all wires.
 - b. Position all wires flat against the base.
 - c. Take up all slack in the outlet box.
 - d. Route wires away from connector terminals.

DETECTOR MOUNTING - USING THE DB-X3RS

The detector is provided with a separate base which attaches to a standard 4 inch square, 2 1/8 inch deep electrical box, with the box size and depth required by the NEC for the number and size of conductors used.

MOUNTING - USING THE DB-X3RS

1. Route all wires outward from outlet box.
2. When the ALARM LED viewing is critical, position the LED mark in the base in the intended direction. Refer to Figure 2.
3. Remove the jumper installed between terminals 1a and 1b.
4. Mount the base to the outlet box and route the wires through the hole in the center of the base. Make connections directly to the base terminals. Refer to Figure 1 for details.
5. To insure proper installation of the detector head into the base:
 - a. Properly dress all wires.
 - b. Position all wires flat against the base.
 - c. Take up all slack in the outlet box.
 - d. Route wires away from connector terminals.

CAUTION

Detector Storage

DO NOT install this detector until all construction is completed.

DO NOT store this detector where it can be contaminated by dirt, dust, or humidity.

BASE MODEL DB-3S

For use with the following **SIEMENS** detector models:

DI-3/-3H	ILI-1/-1H
DI-A3/-A3H	ILI-1A/-1AH
DT-11 with DB-ADPT	ILP-1/ILPT-1
FP-11 with DB-ADPT	ILP-2
FPT-11 with DB-ADPT	PE-11/-11T with DB-ADPT

BASE MODEL DB-X3RS

For use with the following **SIEMENS** detector models:

FP-11 with DB-ADPT	ILI-1A/-1AH
FPT-11 with DB-ADPT	ILP-1/ILPT-1
ILI-1/-1H	ILP-2