



SIEMENS DB2-HR Detector Relay Base Instruction Manual

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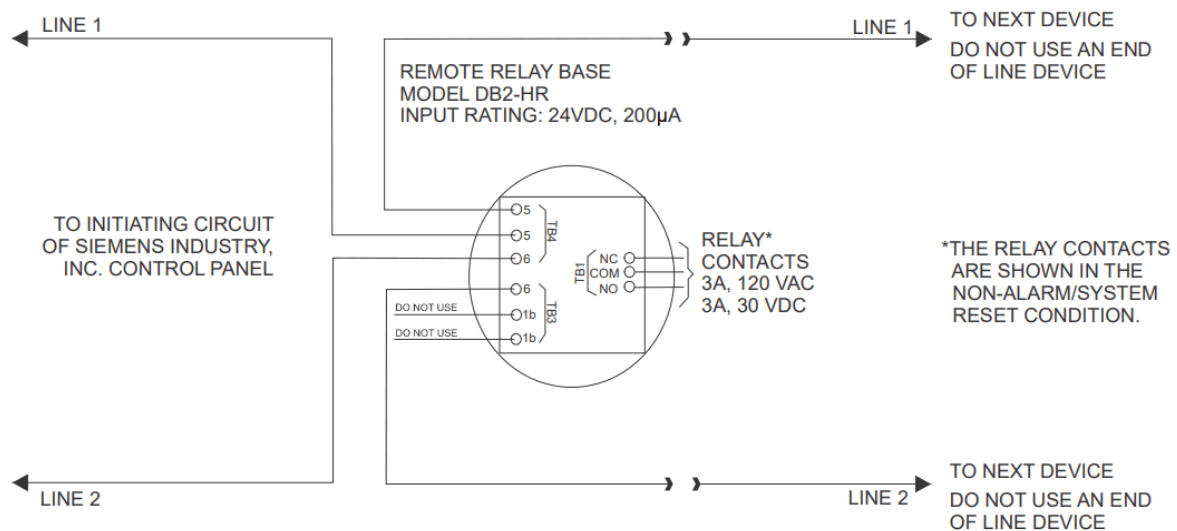
DB2-HR Detector Relay Base
Instruction Manual

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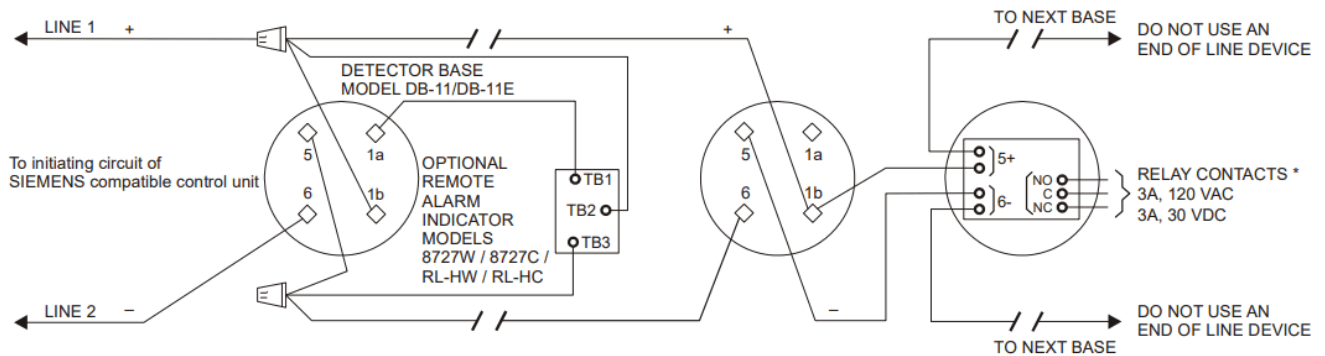
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DB2-HR Detector Relay Base

Polarity Insensitive wiring:



Class X Wiring (Isolator mode):



* The relay contacts are shown after System reset, which represents the non-alarm condition.

Wires connected to TB3/TB4 must enter or exit electrical box on opposite side of wires connected to TB1, if TB1 is used in an AC Power or Non-Power Limited application.

Figure 1 DB2-HR Wiring for Polarity Insensitive Detectors

DETECTOR AND BASE PLACEMENT

Detector and base locations shall follow the drawings provided or approved by Siemens Industry, Inc. or 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. When drawings are not available, refer to Detector Placement section of detector Installation/Wiring Instructions and to NFPA 72, National Fire Alarm Code and CAN/ULC-S524.

WIRING

The Model DB2-HR from Siemens Industry, Inc. is a polarity insensitive detector base that is compatible with the detectors listed in Table 1.

Table 1 compatible Detectors	
Detector	Inst. Instr. P/N
FD0421	A6V10323926
FDOOT441	A6V10324655
FDOOTC441	A6V10324657
FDOT421	A6V10323934
FDT421	A6V10323930
HFP-11/HFPT-11	315-033290
HFPO-11	315-034800
HI921	A6V10323932
OH921	A6V10323936
00H941	A6V10324659
00HC941	A6V10324661
OP921	A6V10323928
SFP-11/SFPT-11"	315-033290C
SFPO-11*	315-033290C
8710, 8712, 8713	315-033290FA
*SFP-11, SFPT-11 and SFPO-11 detectors are approved for use in Canada only	

Detector base should be interconnected as shown in Figure 1 and wired to the device loop of the control panel. Line 1 and Line 2 can be either line of the loop. Note any limitations on the number of detectors and restrictions on the use of remote devices permitted for each circuit. For maximum number of devices, refer to the panel power calculations in the PSC-12 manual, P/N 315-033060.

Note:

Recommended wire size:

18 AWG minimum

14 AWG maximum

Wire larger than 14 AWG can damage the connector.

POWER LIMITED WIRING

In compliance with NEC Article 760, all power limited fire protective signaling conductors must be separated a minimum of 1/4 inch from all of the following items located within an outlet box:

- electric light
- power
- Class 1 or non-power limited fire protective signaling conductors

To meet the above the requirements, the following guidelines must be observed when installing this relay base module.

MODULE BARRIER

The Module Barrier must be used when the DB2-HR relay contacts are connected to non-power limited lines.

Break apart the barrier to the correct size and shape shown in Figure 2 for the 4-inch square box. Install the barrier diagonally into the back-box to create two separate compartments within the backbox to separate the wires, as shown in Figure 2.

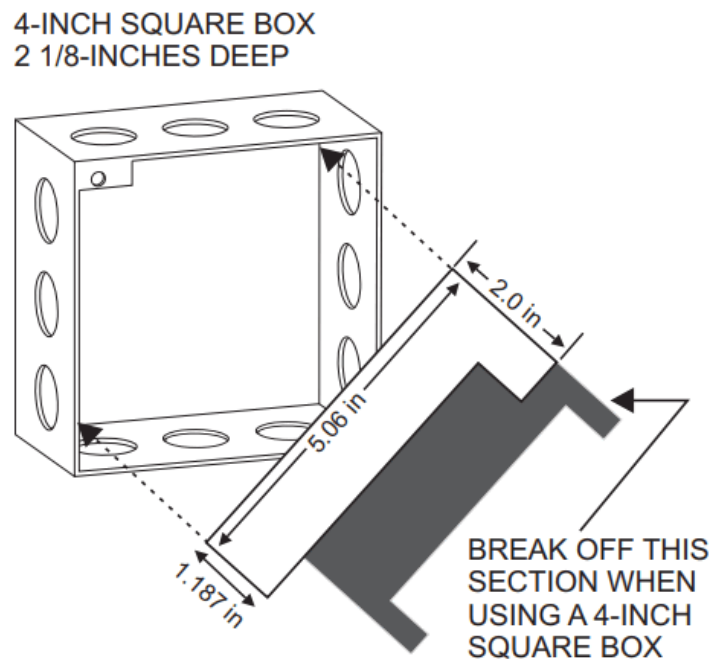


Figure 2 Installing the Control Module Barrier

WIRING ENTERING OUTLET BOX

Power Limited Wiring

All power limited wiring must enter the outlet box separately from the electric light, power, Class 1, or non-powered limited fire protection signaling conductors. For the DB2-HR, wiring to terminal blocks TB3 and TB4 must enter the outlet box separately from wiring to terminal block TB1.

Important : Minimize the length of wire entering the outlet box.

DETECTOR MOUNTING USING THE DB2-HR BASE

The detector is mounted on the DB2-HR base which attaches to a standard 4 inch square electrical box, with the box size and depth required by the NEC for the number and size of conductors used. Wire to the terminal blocks as shown in Figure 1. Wire size: max – 14 AWG, min – 18 AWG.

1. After all bases are installed, check wiring integrity.
2. To insure proper installation of the detector head into the base:
 - a. Make sure that existing wires are away from connector terminals.
 - b. Check that screw terminals are tight.

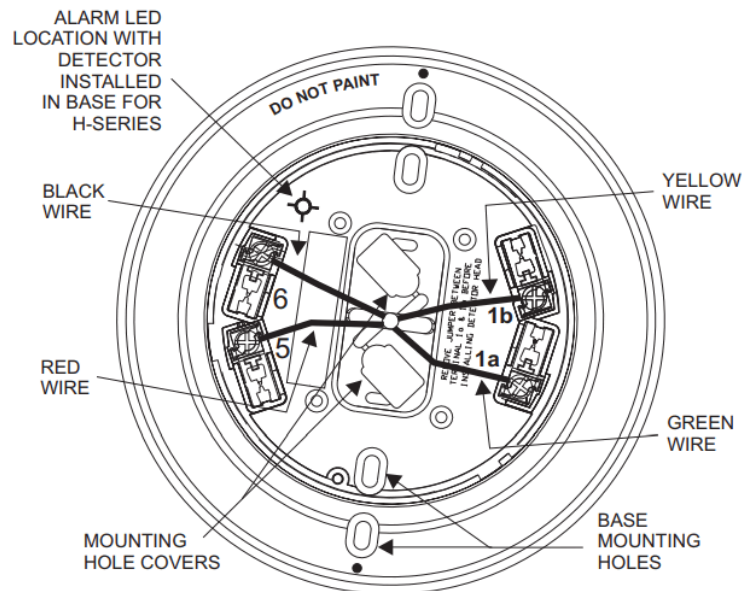


Figure 3 Mounting the Detector into the DB2-HR Base

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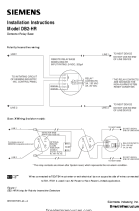
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References

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