

### Operation and Installation Instructions

#### Model AE-30U

#### Alarm Extender Module

### Operation

The **SIEMENS** Model AE-30U Alarm Extender Module is designed to provide one Style Y (Class B) super-vised notification appliance circuit, utilizing polarized, parallel connected notification appliances. Actuation of the module is caused by high-going DC input signal between 12 and 24 volts above system common. Dual input activation terminals are provided to facilitate programming.

The Model AE-30U contains a yellow LED trouble indicator to display open or shorted alarm lines except when that particular module is not in an activated condition.

The yellow LED can be lamp tested from the system control panel.

### Installation

1. Mount the module to the horizontal mounting brackets in the control enclosure.
2. Install the Model JA-5 (5 in. long) bus connector cable assembly between receptacle P2 of the module and receptacle P1 of the module or control panel immediately preceding it in the bus.

**Note:** If the preceding module is on another row in the enclosure, a JA-24 (24 in. long) bus connector cable assembly will be required.

3. Modules are to be bus-connected from right to left. For two-row enclosures, the modules in the lower row are to be connected from left to right. Succeeding rows are to be alternately connected, right to left, left to right, etc.
4. If a module is the last module in the system, install either a JS-30 (30 in. long) or JS-64 (64 in. long) bus connector assembly from the

unused receptacle of the last module to terminal 41 of the CP-35 control panel. This completes the module supervision circuit.

5. If a DC notification appliance circuit is to be used, install a JP-D program plug into receptacle P2 of the CP-35 control panel.

**Note:** If a battery charger/transfer module is used, the program plug is not necessary.

If an AC notification appliance circuit is to be used, install a JP-A program plug into receptacle P2 of the control panel.

**Note:** When a JP-A program plug is used, an EL-32 end of line device is required for the notification appliance circuit.

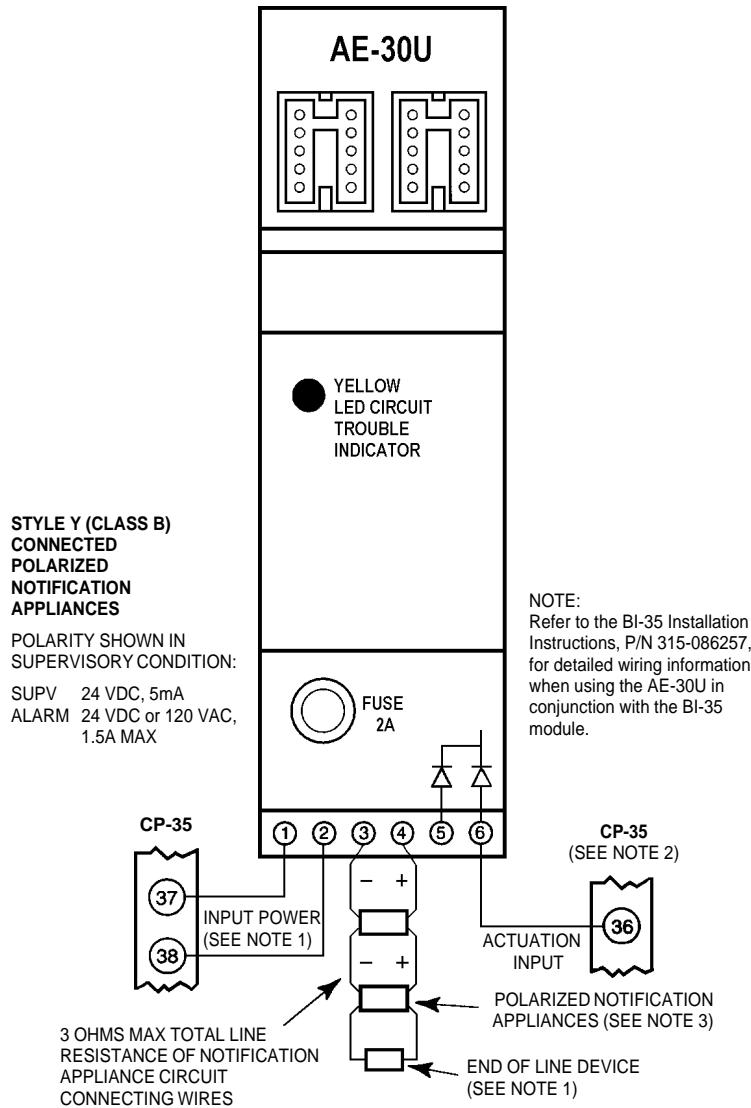
6. Wire the circuits as described in the **MODEL CP-35 CONTROL PANEL INSTALLATION AND MAINTENANCE INSTRUCTIONS**, P/N 315-085063 and the **CP-35 WIRING DIAGRAM**, P/N 315-084902. The maximum line resistance should be 3 ohms, and a minimum of 14 AWG wire is recommended. All wiring should comply with the local and national codes that apply to the particular installation.

### Operational Test

Refer to **INSTALLATION AND WIRING** in the Instruction Manual (P/N 315-085063) for the control panel.

### Troubleshooting

Refer to **TROUBLESHOOTING THE CP-35** in the Instruction Manual for the control panel.



**NOTES:**

1. When emergency power is provided using charger/ transfer module, Model BC-35, 24 VDC notification appliances must be used with EOL device, Model EL-31. When BC-35 is not used, 120 VAC notification appliances may be employed by use of AC program plug, Model JP-A, in P2 of CP-35 and Model EL-32 EOL device, or by use of 24 VDC notification appliances with DC program plug, Model JP-D, in P2 and Model EL-31 EOL device.
2. Notification appliance circuits may be activated from the silenceable system alarm output signal, terminal 36 of CP-35, or from the non-silenceable system alarm output signal, terminal 42 of CP-35. When other alarm signals such as coding or time delay/limit are required, see individual module connection diagrams.
3. Use only the compatible polarized notification appliances listed in P/N 315-096363.
4. To use power limited wiring to NFPA 70, NEC Article 760, the notification appliance circuits (terminals 3 and 4) must use the PLM-35 module. Refer to Instructions P/N 315-093495.