


## System 3™ Output Modules

### ENGINEER AND ARCHITECT SPECIFICATIONS

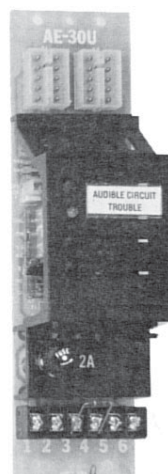
- Styles Y or Z Circuit Operation
- LED Trouble Indicator
- Placement Supervised
- AC or DC Audibles
-  Listed, CSFM, NYMEA, City of Chicago and FM Approved

**MODEL AA-30U**  
(Style "Z")



Class A  
Audible Alarm Extender Module  
DC Audibles and Visuals

**MODEL AE-30U**  
(Style "Y")



Class B  
Audible Alarm Extender Module  
AC or DC Audibles and Visuals

### Description

#### AA-30U

The AA-30U Audible Alarm Extender Module has been designed for use with the System 3 control panel and meets the requirements of NFPA 72 Style "Z" (Class "A").

The module provides a four wire circuit for operating polarized, parallel-connected 24 Vdc notification appliances. The circuit capacity is typically 20 vibrating dc bells, 10 dc horns or strobes. However, depending on the current requirements of the connected devices, additional bells, horns or strobes can be added providing the total circuit load does not exceed 1.5 amperes.

Actuation of the module is caused by a high going input signal from a system control module. Dual input activation terminals are provided for programming or sequencing its operation.

The Model AA-30U contains a yellow LED "Trouble" indicator on the face of the module which indicates an open or shorted loop condition. This is operative at all times except when the system is in alarm.

The Model AA-30U is placement supervised, providing a system trouble signal upon removal from the system. Power for the alarm circuit is fused within the module. The fused circuit requires an end of line resistor valued at 5.6K Ohms and rated at .5 Watts.

### Description

#### AE-30U

The AE-30U Audible Alarm Extender Module has been designed for use with the System 3 control panel and meets the requirements of NFPA 72 Style "Y" (Class "B").

The module provides a two wire circuit for operating polarized, parallel-connected 24 Vdc or 120 Vac notification appliances. The circuit capacity varies depending on device type and rating. The total circuit load must not exceed 1.5 amperes.

Actuation of the module is caused by a high going input signal from a system control module. Dual input activation terminals are provided for programming or sequencing its operation.

The Model AE-30U contains a yellow LED "Trouble" indicator on the face of the module which indicates an open or shorted condition. This is operative at all times except when the system is in alarm.

The Model AE-30U is placement supervised, providing a system trouble signal upon removal from the system. The two wire circuit which is fused, requires an end of line resistor valued at 5.6K ohms and rated at .5 watts for DC devices and 5 watts for AC devices.

## Engineer and Architect Specifications

### AA-30U

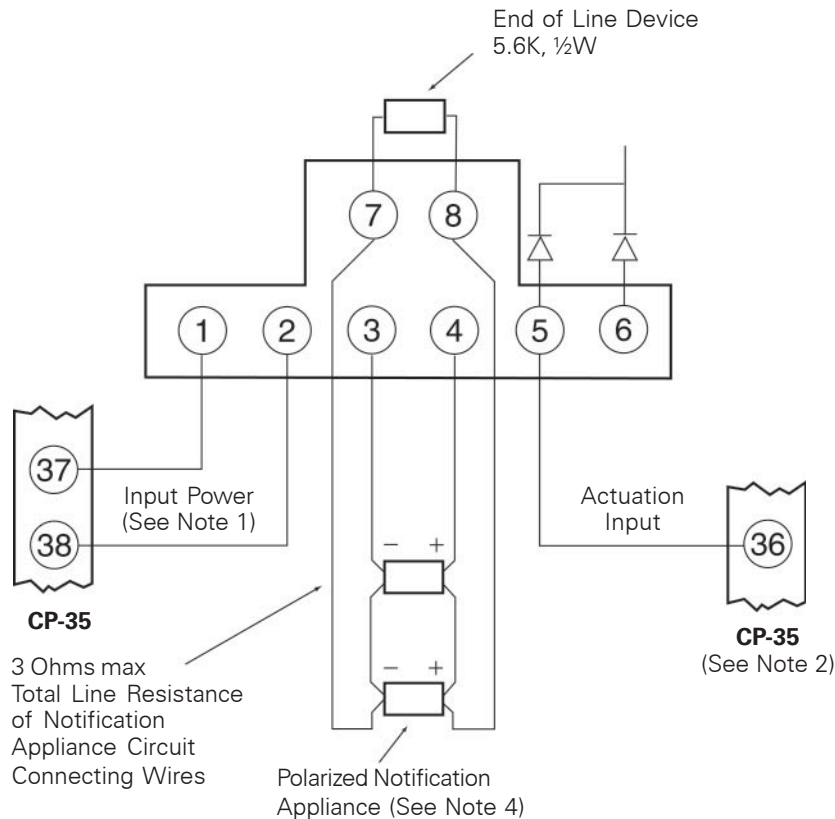
For Style "Z" a notification appliance circuit for operating 24 Vdc polarized audible alarm devices shall be provided by an Audible Alarm Class "A" Module, Model AA-30U. This module shall be system inter-connected by a ten-pin plug and harness assembly and shall be operable with the main control panel.

Upon receipt of a high-going DC actuating signal, the solid state circuitry shall supply operating power for vibrating

24 Vdc bells, 24 Vdc horns or strobes. The maximum output current shall be limited to 1.5 amperes. The audible devices shall require a four wire fused, supervised circuit.

The module shall contain a yellow LED indicator lamp to indicate an open or shorted alarm line when the system is in the normal condition. The LED shall be lamp tested from the main control panel.

The Model AA-30U shall be placement supervised and shall be Underwriters Laboratories, Inc. listed.



### Style Z (Class A) Connected Polarized Notification Appliances

Polarity Shown in Supervisory Condition:

SUPV	24VDC, 5mA
Alarm	24VDC or 120VAC, 1.5 Max

#### Notes:

1. When Style Z (Class A) type notification appliance circuit configuration is used, 24VDC notification appliances are required. Use EOL device Model EL-31 and DC program plug Model JP-D in P2.
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. Refer to the BI-35 Installation Instructions, P/N 315-086257, for detailed wiring information when using the AA-30U in conjunction with the BI-35 module.
4. Use only the compatible polarized notification appliances. See Fire Safety P/N 315-096363.
5. To use power limited wiring to NFPA 70, NEC Article 760, the notification appliance circuits (terminals 3, 4, 7, and 8) must use the PLM-35 module. Refer to Instructions P/N 315-093495.

## Engineer and Architect Specifications

### AE-30U

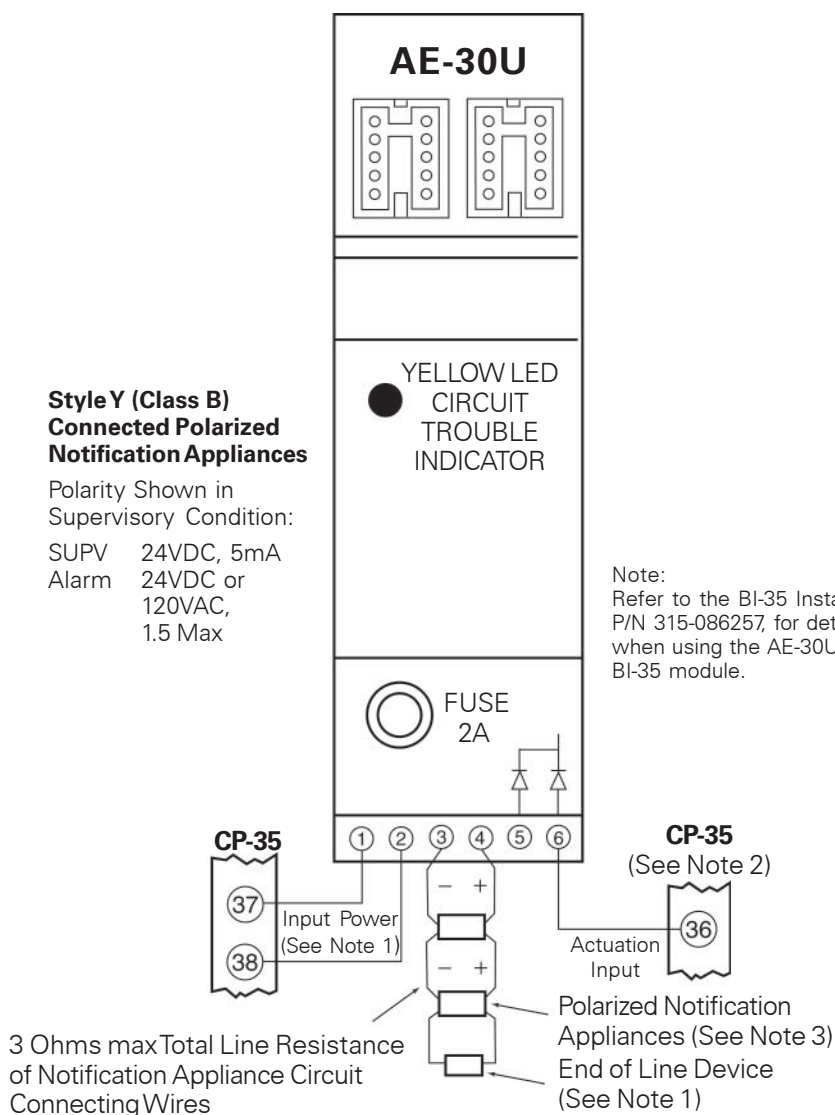
For Style "Y" a notification appliance circuit for operating 120Vac or 24Vdc polarized audible alarm devices shall be provided by an Audible Alarm Class "B" Module, Model AE-30U. This module shall be system interconnected by a ten-pin plug and harness assembly and shall be operable with the main control panel.

Upon receipt of a high-going DC actuating signal, the solid state circuitry shall supply operating power for AC bells or AC horns. For DC devices it shall power vibrating DC

bells, DC horns or strobes. The maximum output current shall be limited to 1.5 amperes. The audible devices shall require a two wire fused, supervised circuit.

The module shall contain a yellow LED indicator lamp to indicate an open or shorted alarm line when the system is in the normal condition. The LED shall be lamp tested from the main control panel.

The Model AE-30U shall be placement supervised and shall be Underwriters Laboratories, Inc. listed.



Note:  
Refer to the BI-35 Installation Instructions,  
P/N 315-086257, for detailed wiring information  
when using the AE-30U in conjunction with the  
BI-35 module.

#### Notes:

1. When emergency power is provided using charger/transfer module, Model BC-35, 24VDC notification appliances must be used with EOL device, Model EL-31. When BC-35 is not used, 120VAC 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 24VDC 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 compatible polarized notification appliances. See Fire Safety 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.

## Ordering Information

Model Number	Description	Normal	Current Requirements	Shipping Weight
AA-30U	Audible Alarm Module Style Z	6.5 mA	40 mA for AA-30U plus 1.5 amp max for signaling circuit	1lb. (.45 kg.)
AE-30U	Alarm Extender Module Style Y	6.5 mA	40 mA for AE-30U plus 1.5 amp max for signaling circuit	1lb. (.45 kg.)

**NOTICE:** The use of other than Fire Safety detectors and bases with Fire Safety equipment will be considered a misapplication of Fire Safety equipment and as such void all warranties either expressed or implied with regard to loss, damage, liabilities and/or service problems.

Siemens Building Technologies  
**Fire Safety**

Fire Safety  
8 Fernwood Road  
Florham Park, NJ 07932  
Tel: (973) 593-2600  
FAX: (973) 593-6670  
Website: [www.sbt.siemens.com/fis](http://www.sbt.siemens.com/fis)

8/05  
5M  
SFS-IG  
Printed in U.S.A.

Fire Safety  
2 Kenview Boulevard  
Brampton, Ontario  
Canada L6T 5E4  
Tel: (905) 799-9937  
FAX: (905) 799-9858

**August 2005**  
Supersedes sheet dated 7/03