


System 3 Output Modules

ENGINEER AND ARCHITECT SPECIFICATIONS

MODEL AA-30U

MODEL AE-30U

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



**Class A
Audible Alarm
Extender Module
DC Audibles
and Visuals**



**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 5.6 K ohms 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 systems, a notification appliance circuit for operating 24 Vdc polarized audible alarm devices shall be provided by a Cerberus Pyrotronics 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.

End of Line Device, 5.6K, 1/2W

Input Power (See Note 1)

Actuation Input

CP-35

CP-35 (See Note 2)

3 Ohms max Total Line Resistance of Notification Appliance Circuit Connecting Wires

Polarized Notification Appliance (See Note 3)

Style Z (Class A) Connected Polarized Notification Appliances

Polarity Shown in Supervisory Condition:

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

Notes:

- When Style Z (Class A) type notification appliance circuit configuration is used, 24 VDC notification appliances are required. Use EOL device Model EL-31 and DC program plug Model JP-D in P2
- 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.
- 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.
- Use only the compatible polarized notification appliances in the following table.
- 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

Strobes	Electronic Horns 1-Tone with strobe	Electro-Mech. Horn/Strobes	Electronic S.W./Chime	Chimes/ Strobes
S15-FS	EH-S15-F	HN-S15-F	HN-S17-S	EW-S15-F
S15-F	EH-S15-S	HN-S15-S	HN-S17-C	EW-S15-S
S15-FT	EH-S15-C	HN-S15-C	HN-S75-F	EW-S15-C
S15-ST	EH-S17-F	HN-S15-F	HN-S75-S	EW-S17-F
S15-S	EH-S17-S	HN-S15-S	HN-S75-F	EW-S17-S
S17-FS	EH-S17-C	HN-S15-C	HN-S75-S	EW-S17-C
S17-F	EH-S75-F	HN-S17-F	HN-S110-F	EW-S75-F
S17-S	EH-S75-S	HN-S17-S	HN-S110-S	EW-S75-S
S17-FT	EH-S110-F	HN-S17-C	HN-S110-F	EW-S110-F
S17-ST	EH-S110-S	HN-S17-F	HN-S110-S	EW-S110-S
S75-FS				
S75-F				
S75-S				
S75-FT				
S75-ST				
S110-FS				
S110-F				
S110-S				
S110-FT				
S110-ST				
BT-F	MC-F	MT-F	HN-F	EH-F
BE-F	MC-S	MT-S	HN-S	EH-S
BS-F	MC-C	MT-C	HN-C	EH-C
BF-F	MC-S15-F	MT-S15-F	HNH-F	
BT-LC	MC-S15-S	MT-S15-S	HNH-S	Tn-Hom
BE-LC	MC-S15-C	MT-S15-C	HNH-C	
BS-LC	MC-S17-F	MT-S17-F	HNH-EP	TTH
BF-LC	MC-S17-S	MT-S17-S	HN-EP	
	MC-S17-C	MT-S17-C		
	MC-S75-F	MT-S75-F		
	MC-S75-S	MT-S75-S		
	MC-S110-F	MT-S110-F		
	MC-S110-S	MT-S110-S		
EC-F	EC-C		EW-F	EW-C
EC-S	CH-F		EW-S	

Engineer and Architect Specifications

AE-30U

For Style Y systems, a notification appliance circuit for operating 120 Vac or 24 Vdc polarized audible alarm devices shall be provided by a Cerberus Pyrotronics 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 four wire fused, supervised circuit.

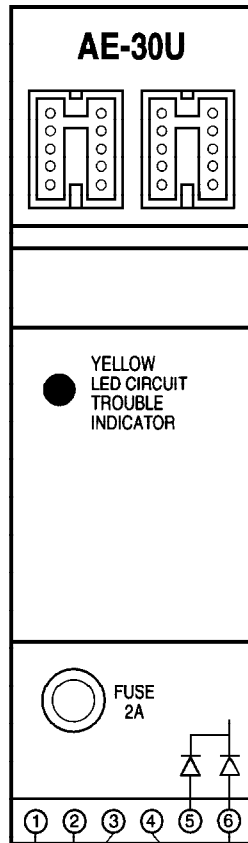
The module shall contain a yellow LED indicator lamp to indicate an open or shorted alarm line when the system is in the normal condition. The LED shall be lamp tested from the main control panel.

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

Style Y (Class B) Connected Polarized Notification Appli- ances

Polarity Shown in
Supervisory
Condition:

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



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, 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 in the following table.

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.

TABLE 1 COMPATIBLE NOTIFICATION APPLIANCES				
Strobes	Electronic Horns 1-Tone with strobe	Electro-Mech. Horn/Strobes		Chimes/ Strobes
S15-FS	EH-S15-F	HN-S15-F	HNH-S17-S	EW-S15-F
S15-F	EH-S15-S	HN-S15-S	HNH-S17-C	EW-S15-S
S15-FT	EH-S15-C	HN-S15-C	HN-S75-F	EW-S15-C
S15-ST	EH-S17-F	HNH-S15-F	HN-S75-S	EW-S17-F
S15-S	EH-S17-S	HNH-S15-S	HNH-S75-F	EW-S17-S
S17-FS	EH-S17-C	HNH-S15-C	HNH-S75-S	EW-S17-C
S17-F	EH-S75-F	HN-S17-F	HN-S110-F	EW-S75-F
S17-S	EH-S75-S	HN-S17-S	HN-S110-S	EW-S75-S
S17-FT	EH-S110-F	HN-S17-C	HNH-S110-F	EW-S110-F
S17-ST	EH-S110-S	HNH-S17-F	HNH-S110-S	EW-S110-S
S75-FS				
S75-F				
S75-S				
S75-FT				
S75-ST				
S110-FS				
S110-F				
S110-S				
S110-FT				
S110-ST				
Vibrating Bells		Horns/Horn Strobes 3-Tone 8-Tone		Electronic Mech. Horns 1-Tone
BT-F	MC-F	MT-F	HN-F	EH-F
BE-F	MC-S	MT-S	HN-S	EH-S
BS-F	MC-C	MT-C	HN-C	EH-C
BT-LC	MC-S15-F	MT-S15-F	HNH-F	Tri-Horn
BE-LC	MC-S15-S	MT-S15-S	HNH-S	
BS-LC	MC-S15-C	MT-S15-C	HNH-C	
BT-LC	MC-S17-F	MT-S17-F	HNH-EP	TTH
BE-LC	MC-S17-S	MT-S17-S	HNH-EP	
BS-LC	MC-S17-C	MT-S17-C		
	MC-S75-F	MT-S75-F		
	MC-S75-S	MT-S75-S		
	MC-S110-F	MT-S110-F		
	MC-S110-S	MT-S110-S		
Chimes		Electronic Slow Whoop		
EC-F	EC-C		EW-F	EW-C
EC-S	CH-F		EW-S	

Ordering Information

Model No.	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 Cerberus Pyrotronics detectors and bases with Cerberus Pyrotronics control equipment will be considered a misapplication of Cerberus Pyrotronics equipment and as such void all warranties either expressed or implied with regards to loss, damage, liabilities and/or service problems.



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