

LA1 AC Barrier Installation

For the LA1-ACB-1C-A (1 Channel) model

WARNING: This product *MUST* be installed by qualified personnel only. It must be installed in compliance with local and national electrical codes and intrinsic safety standards. ICS is not responsible for misuse or incorrect installation of this product.

The LA1 Overfill alarm normally operates on Lithium battery power. With the installation of the LA1-ACB-1C, the LA1 will operate on 90v to 260v AC power, while the lithium batteries act as a battery backup. The LA1-ACB-1C also allows the control of an external alarm annunciator.

Installation:

1. To install the barrier, you will need a 3/4" T fitting and 3/4" conduit nipple. The barrier ribbon cable will pass through one end of the fitting, while the probe wires will pass through the other. See Fig. 1 at right.
2. Carefully route the ribbon cable connector through the conduit fittings and plug it into the LA1 barrier connector. Thread the LA1-ACB-1C into one T adapter opening.
3. Use the remaining T adapter opening to route the probe wires to the LA1 tank probes.
4. Attach the high voltage end of the LA1-ACB-1C to a junction box. If the LA1-ACB-1C is located in the Hazardous area, all conduits and junction boxes must be explosion proof.
5. With the circuit breaker switched OFF, connect AC Hot to Black, AC Neutral to White, and Earth Ground to Green on the LA1-ACB-2C.
6. Connect the barrier Brown wire to the annunciator black. Connect the annunciator white to neutral, and green to earth ground. See Fig. 2.
8. Installation is now complete. Apply AC power to the barrier and press the TEST button on the LA1 alarm unit to test the system. Note that the annunciator will not activate in the TEST mode.
9. To test the annunciator, trigger one of the float switches attached to the LA1 alarm box. Hold it in the trigger position for 2 seconds. The alarm on the LA1 alarm box and the annunciator alarm should sound and the strobe light should flash.

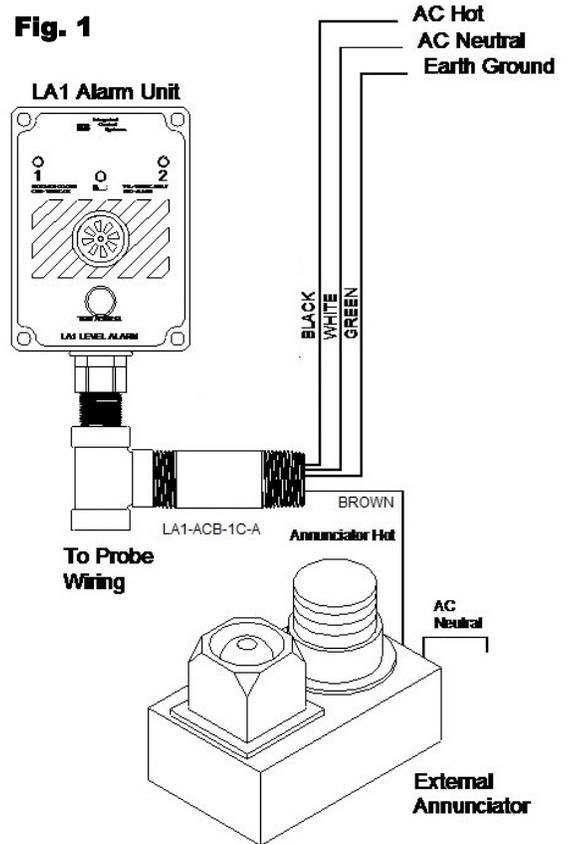


Fig. 2

WIRING	
Wire Color	Wire Function
Black	90-260VAC Hot
White	AC Neutral
Green	Earth Ground
Brown	Annunciator Output

As defined in article 501 – Class 1, Division 1, Groups C and D Locations of the National Electric Code, this apparatus and its interconnected components are intrinsically safe. Under normal or defined fault conditions this apparatus and its wiring cannot release sufficient energy to ignite a specific ignitable atmospheric mixture by opening, shorting, or grounding.

SPECIFICATIONS	
Operating Temperature Range	-40 to 150 degrees F.
Operating AC voltage range	90VAC to 260VAC
Operating AC input current	<0.25A
Output Maximum Voltage	600VAC
Valve Output Max. Current	1A per Channel



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