



# High Water Bilge Alarm Mercury Free Models 33ALA, 32ALA, 31ALA

## Features

- Patent pending snap switch design
- Tested to over 1,000,000 cycles
- Highly abrasion resistant marine grade blocked wire
- Exclusive moisture tight seals
- Environmentally friendly mercury free design
- 28" of 14 Gauge Blocked Wire
- 2 Year Warranty

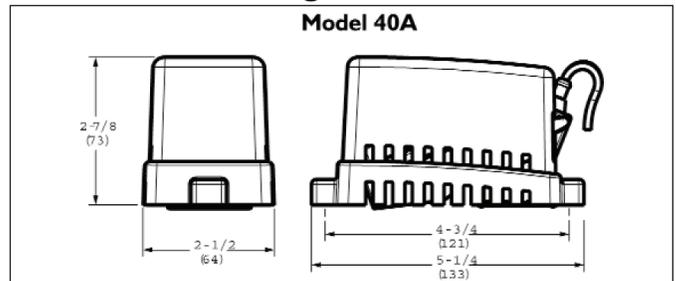
The Float Switch will activate the alarm when the water level rises above 2" (51mm) and the alarm will turn off when the water level falls below 1" (19mm). The alarm/switch combo can be installed in conjunction with a bilge pump to provide an additional level of safety for the user.

This product must be fused with the correct recommended fuse size for its application. Exceeding the maximum fuse size may cause damage to the alarm and switch.

Model	Voltage	Max. Amps
33ALA	12V	20A
32ALA	24V	10A
31ALA	32V	6.5A



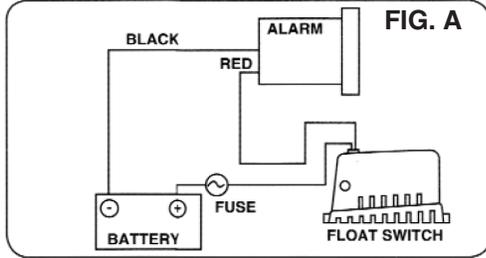
## Dimensional Drawing



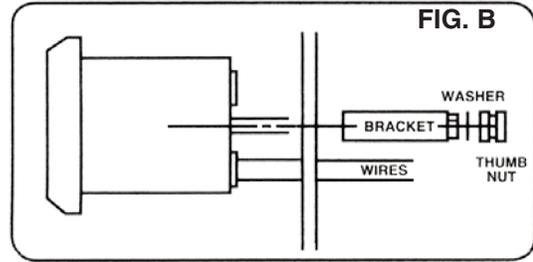
## Installation Instructions

1. Select a location where the High Water Alarm can be seen and heard in all situations, especially when the vessel is underway. The alarm is designed to fit into a 2 1/8" diameter hole in the dashboard or bulkhead.

2. Connect the black wire from the alarm to a negative source, such as the negative terminal of the battery or to the negative side of a fuse panel. Connect the red wire from the back of the alarm to one of the gray wires from the float switch and the other wire from the float switch will connect to the power source. If there is no additional units installed in the circuit, install a 1 amp fuse between the battery and the float switch. See **Figure A** for diagram. Use butt connectors and shrink tubing from your local marine store to prevent water intrusion and damaging the connectors.



3. Feed the cable from the alarm through the hole, insert the alarm, and secure the unit with the bracket, lockwasher, and nut as shown in **Figure B**.



4. Locate the switch on a level surface (inclined no more than 30 degrees front to back and 5 degrees side to side), at the desired level for the alarm to activate. Typically, the alarm float is installed in an area above (1"-2") the activation level on the float for the bilge pump. This allows the alarm to activate when the bilge pump is either not working or there is too much water for the bilge pump to keep up with the flow.

5. Install a stainless steel screw on either side of the float switch and inspect all wire connections for a proper seal against water intrusion.



### IMPORTANT

KEEP ALL WIRE CONNECTIONS ABOVE THE HIGHEST WATER LEVEL. WIRES SHOULD BE SEALED

WITH A WATERPROOF MARINE SEALANT TO PREVENT WIRE CORROSION!  
WATERPROOF MARINE SEALANT TO PREVENT WIRE CORROSION!

**xylem**  
Let's Solve Water

**USA**  
Rule  
100 Cummings Center, Ste. 535-N  
Beverly, MA 01915  
Tel: 978-281-0573  
Fax: 978-283-2619

**United Kingdom**  
Rule  
Bingley Road, Hoddesdon  
Hertfordshire, EN11 0BU  
Tel: +44 (0) 1992 450145  
Fax: +44 (0) 1992 467132

[www.rule-industries.com](http://www.rule-industries.com)