

Wiring the Control Panel

1 Locate conduit entrance at the bottom of the enclosure as shown. Check local codes for the number of power circuits required. The schematic is located on the inside cover of the control panel.

CAUTION!

Be sure the incoming voltage is the same as the pump motor nameplate.

Providing separate pump and control/alarm power sources is recommended.

Type 4X conduit must be used to maintain a Type 4X rating of the control panel.

2 Connect the following wires to the proper terminals:

- incoming power for each pump circuit breaker
- incoming power for control/alarm
- pump 1
- pump 2 (duplex only)
- SUB-X™ LT or C-Level™ sensor
- float switches (recommended)

See schematic label on inside cover of the control panel for details.

3 Verify correct operation of control panel after installation is complete.

Setup and Operation

Rotate dial and press to select the corresponding pump's mode indicator or panel settings icon.



PUMP 1

PUMP 2

(duplex only)

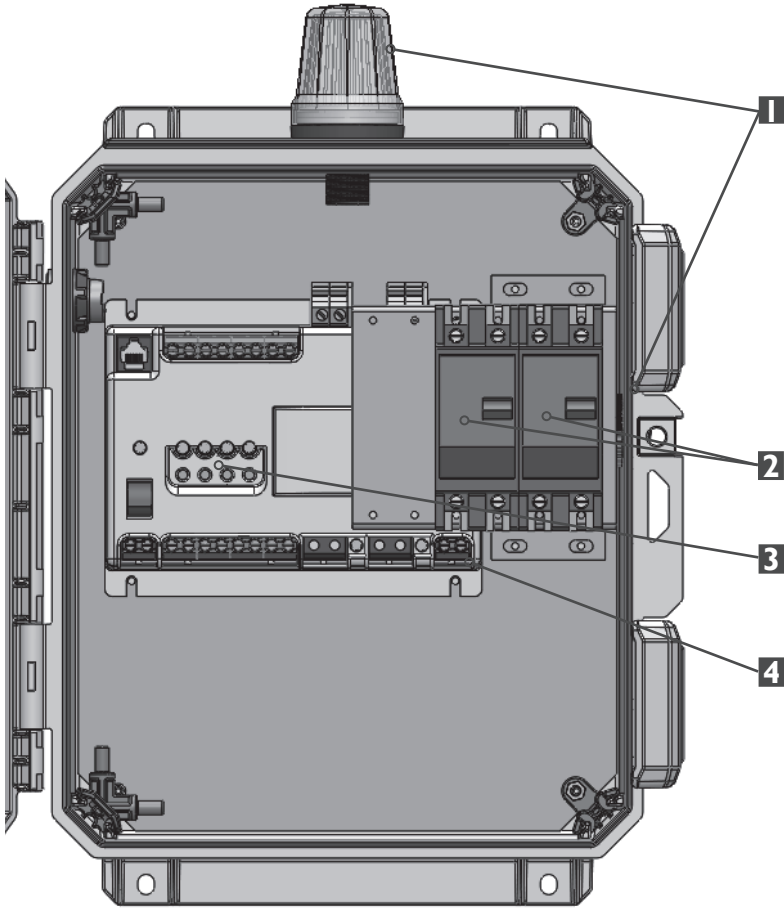
HOA



SETTINGS

- Counts and ETMs
- Timer Settings
- Level Settings
- Alternation (duplex only)
- Advanced

- Displays pump run time and counts of pump run and alarms
- Configures timers (Timed Dose mode only)
- Configures level setpoints
- Configures alternation mode for duplex panels
- Configure advanced functions and view troubleshooting tools



1 Alarm System (Indicator Light and Horn)

When an alarm condition occurs, the red light and horn will be activated.

If the TEST/SILENCE button is pressed and released, the horn will be silenced. When the alarm condition is cleared, the alarm system is reset.

2 Circuit Breakers

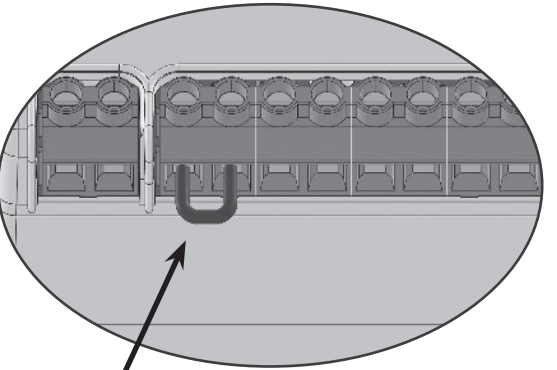
Each pump circuit has a thermal-magnetic circuit breaker that provides branch circuit protection and a means to disconnect the pump.

3 Float Test Switches

Push to simulate a float closure condition for each input.

4 Dry Auxiliary Contacts

Normally Open - Contacts are OPEN under normal conditions and CLOSED when alarm condition is present. CLOSED during power loss. Automatically resets once alarm condition is cleared. Aux contact rating: 120V, 5A



NOTE If redundant off float is not used, a jumper must be installed in its place.

CAUTION!

Seal the electrical conduit with an approved sealing compound to prevent moisture or gases from entering into the control panel.

Duplex Model Shown



Installer Friendly Series®



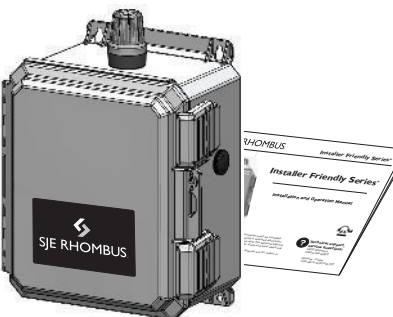
Installer Friendly Series®

Installation and Operation Manual



Parts included

*Control panel may be ordered with or without SUB-X™ LT or C-Level™ Sensor/Floats.



SUB-X™ LT or C-Level™ Sensor

Redundant Off Float

High Water Float

SUB-X™ LT or C-Level™ Sensor Models



OR

Float Switch Models



3x or 4x

WARNING!



ELECTRICAL SHOCK HAZARD
Disconnect all power sources before servicing. Failure to do so could result in serious injury or death.

This control panel must be installed and serviced by a licensed electrician in accordance with the National Electric Code NFPA-70, state and local electrical codes. UL Type 4X enclosures are for indoor or outdoor use.

Warranty void if panel is modified.



For information regarding operation, available options, or servicing questions, please call SJE Rhombus Technical Support.

SJE Rhombus offers a five-year limited warranty on the control panel and a two-year limited warranty on the SUB-X™ LT or C-Level™ sensor. For complete terms and conditions, please visit www.sjerrhombus.com.

Products returned must be cleaned, sanitized, or decontaminated as necessary prior to shipment to ensure that employees will not be exposed to health hazards in handling said material. All applicable laws and regulations shall apply.

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www.sjerrhombus.com

Technical Support Hours: Monday-Friday, 7 A.M. to 6 P.M. Central Time

Installing the SUB-X™ LT or C-Level™ Sensor & Float Switches

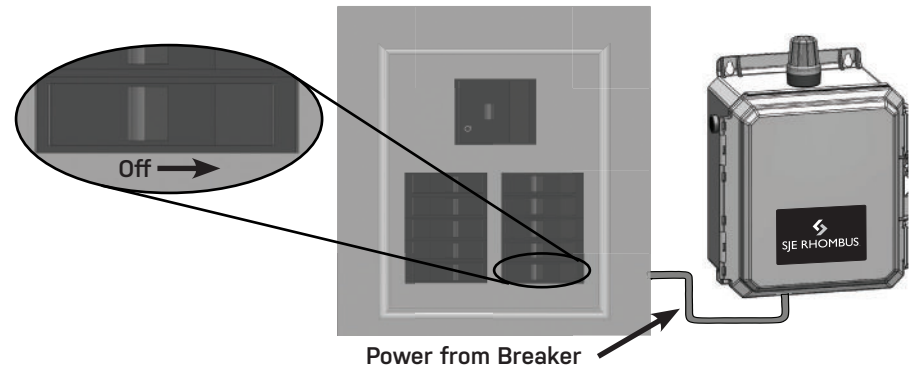
The IFS control panel operates with a SUB-X™ LT or C-Level™ sensor and 1 or 2 recommended float switches or with 3 to 4 float switches. For SUB-X™ LT or C-Level™ sensor operation, the SUB-X™ LT or C-Level™ sensor operates the Pump Start, Stop and Alarm functions and the back-up float switches are for redundant off and high level alarm. For float switch operation, the float switches operate the Pump Start, Stop and Alarm functions.

⚠ WARNING!

Ensure all supply power to the control panel is turned OFF before installing or servicing the SUB-X™ LT or C-Level™ sensor, float switches or pumps in the tank. Failure to do so could result in serious or fatal shock.

NOTE

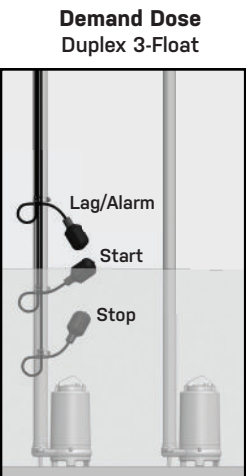
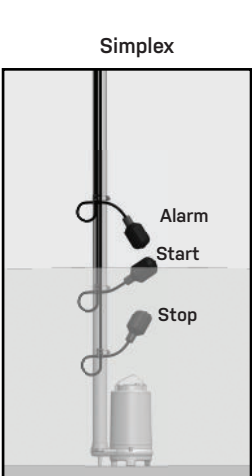
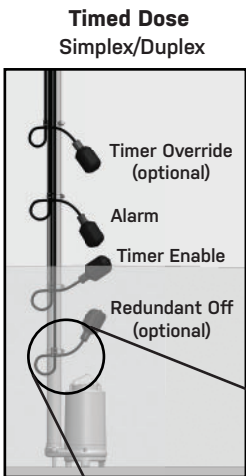
Do not run SUB-X™ LT or C-Level™ sensor cable or float switch cables in the same conduit as the pump cables.



Mounting the Control Panel

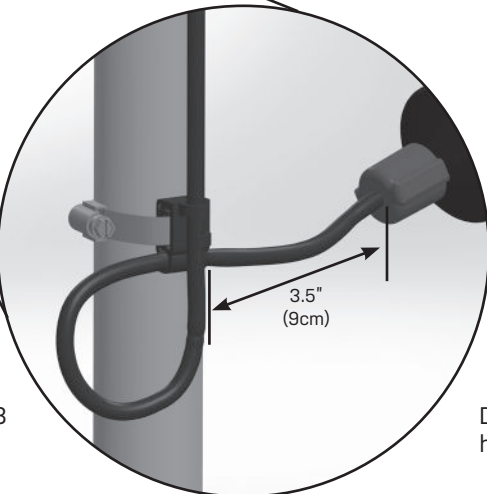


Float Switch Installation



Tighten the clamp.

Hose clamp is 18-8 stainless steel.



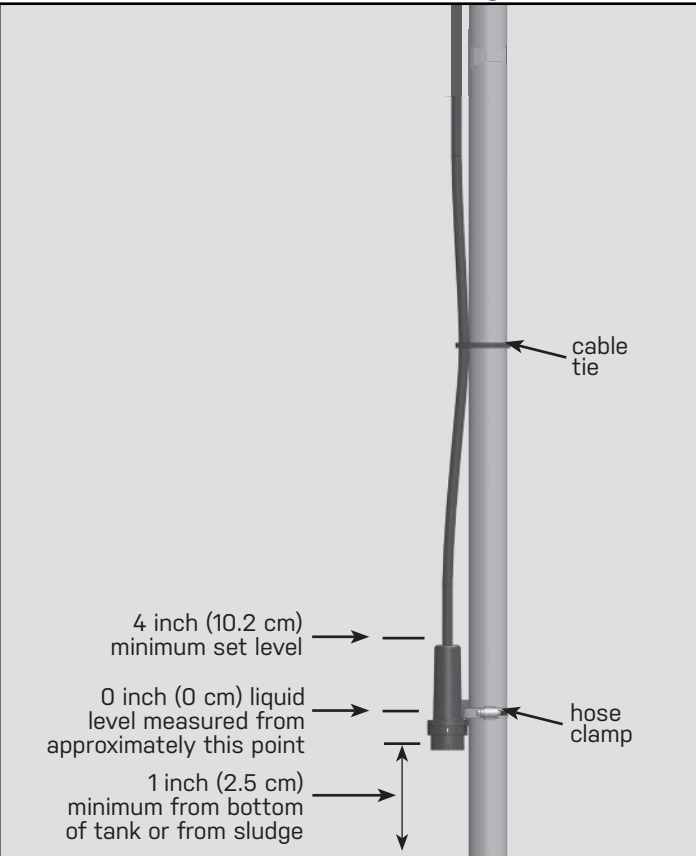
Make sure hose clamp band does not interfere with float operation.

Floats require free range of motion. They must not touch each other or any equipment in the pump chamber.

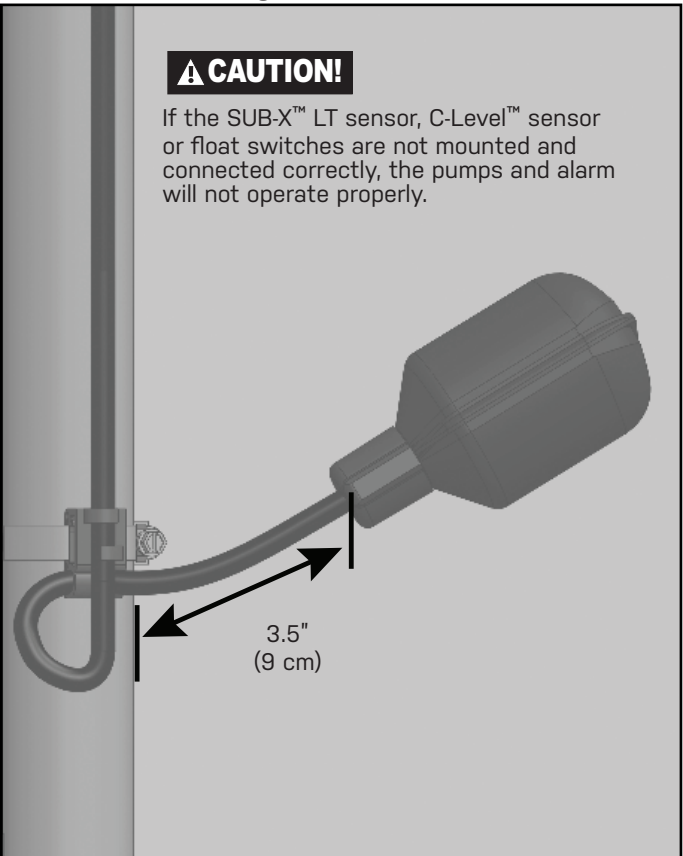
Do not install cord under hose clamp.

SUB-X™ LT or C-Level™ Sensor and Float Switch Installation

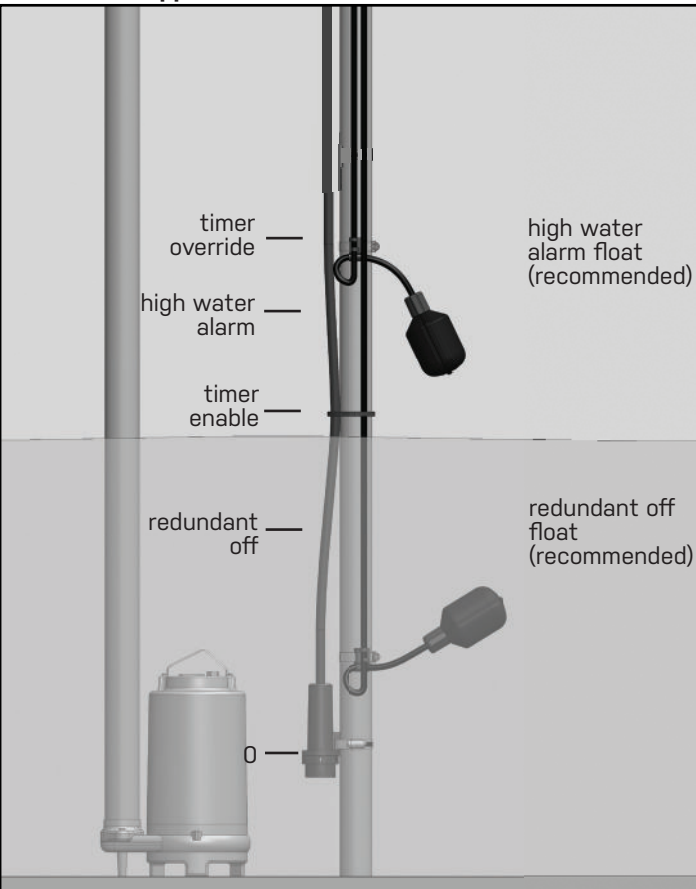
SUB-X™ LT or C-Level™ Sensor Positioning



Float Switch Positioning



Timed Dose Application



Demand Dose Application

