

## DUPLEX ALARM SYSTEM & PUMP CONTROL



### Applications

- Lift pump chambers
- Sump pump basins
- Holding tanks
- Sewage and water removal systems

### Features

- Controls the pump and warns of high liquid levels
- Easy-to-install
- NEMA 4X ultraviolet stabilized thermoplastic enclosure
- HOA switch allows for "Hand" (manual) "Off" or "Automatic" operation
- Control/Alarm ON/OFF switch controls power to the control float and circuitry; this and the pump HOA switch provide an additional safety feature when servicing
- Entire unit UL listed and tested by UL to CSA standards
- Two sensor floats and an alarm float included
- Designed to operate with or without optional fourth control switch

### General Description

The Duplex Alarm System/Pump Control provides residential and commercial customers with a reliable means of controlling a duplex (two pump) system in a water or sewage installation. The system consists of a control panel and three sensor floats.

### Control Panel Exterior

The non-corrosive, indoor and /or outdoor enclosure comes pre-assembled. The panel exterior features a large red alarm beacon. An exterior buzzer test/normal/silence switch allows the 83-85db audible alarm buzzer to be silenced or testing of buzzer and light to ensure proper operation of alarm function.

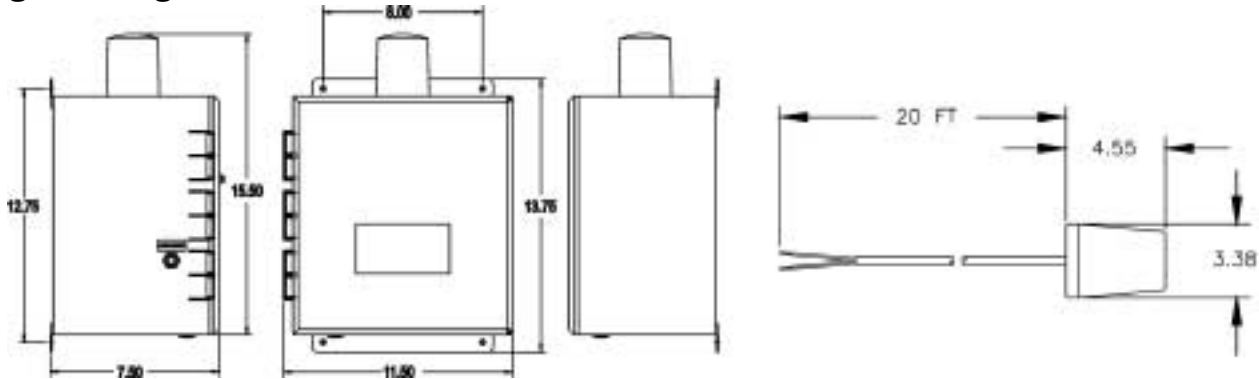
### Control Panel Interior

The panel interior consists of two heavy-duty motor contactors, printed circuit board controller, and a standard 25 watt (max.) light bulb. Two handy HOA switches allow for either "Hand" (manual), "Off" or "Automatic" pump operation. A control switch turns off power to the float circuitry. The control switch and the HOA switches may be turned off to provide an additional safety feature when servicing. These switches are located inside the panel to protect against activation by unauthorized personnel. Green pump run indicator lights located on control circuit board. Easy-to-follow wiring diagram and terminal strip provide for simple installation.

# Little Giant Pump Co.

## DUPLEX ALARM SYSTEM & PUMP CONTROL

### Engineering Data



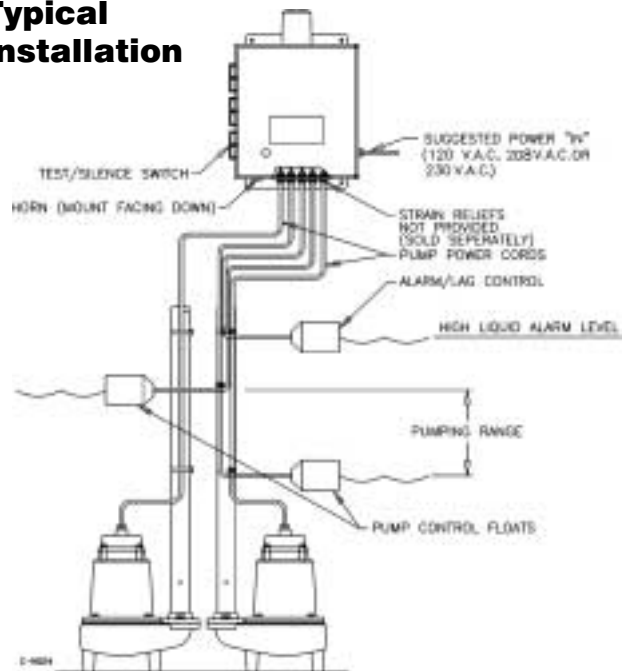
ITEM	CATALOG	PUMP SECTION		ALARM SECTION
		MAXIMUM START AMPS	MAXIMUM RUN AMPS	120 V.A.C., 60 Hz SINGLE PHASE 2 amps 40 WATTS MAXIMUM (ALARM CONDITION)
513258	1221W120H17A	120	20	

### General Installation Instructions

**WARNING:** Turn off power source before installing or adjusting this device. Failure to turn off power could result in serious or fatal electrical shock.

1. Determine the mounting location for control panel. Liquid tight connectors should be used on all cables entering panel. Conduit connectors, if used, must be sealed.
2. Check local codes and the schematic for power circuit requirements. On the control panel, determine the "power in" location (from the building power supply). **CAUTION: BE SURE THE POWER SUPPLY VOLTAGE AND PHASE ARE THE SAME AS THE PUMP MOTORS BEING INSTALLED.**
3. Determine the location on the control panel for the pump power cables and float switch cables. Drill holes to fit the type of cable fittings to be used.
4. Attach floats as shown in Typical Installation drawing.
5. Following step-by-step instructions and wiring diagram included with panel, complete connections of all cables.
6. Verify correct operation of control panel after installation is complete. Follow troubleshooting procedures if necessary.

### Typical Installation



**NOTE:** Little Giant Pump Company cannot be responsible for damages caused by faulty or negligent installation of this control. We recommend that you engage the services of a competent plumber, electrician, or qualified service person to install this product in accordance with national and local electrical codes.

**ACCESSORIES** — Some installations may require a moisture-free junction box to house electrical connections. Model JB70 Junction Boxes are recommended. These are available with liquid-tight connectors. The liquid-tight connectors are also available separately.

Recommend for use on pumps up to 1 HP (120V or 230V) and/or 2 HP (208V or 230V) provided pump amp draw does not exceed 20 running amps or 120 starting amps. Model 1221W120H17A may be used to control one 120 V.A.C. pump and one 208 V.A.C. or 230 V.A.C. pump at the same time.

**Little Giant Pump Co.**

PO Box 12010  
Okla. City, OK 73157

Phone: 405.947.2511  
Fax: 405.228.1550

[www.LittleGiantPump.com](http://www.LittleGiantPump.com)

Form No. 994601 - 04/01