

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



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ZOELLER FLOATLESS WATER LEVEL SWITCH

10-4660 - 115 V / UP TO 1/2 HP - 15' (5 M) CORD

DESIGNED FOR EFFLUENT, SEWAGE AND DEWATERING APPLICATIONS

READ ALL INSTRUCTIONS BEFORE INSTALLING - ALL APPLICATIONS

 **WARNING** Make sure the pump electrical supply circuit is equipped with fuses or circuit breakers of proper capacity. A separate branch circuit is recommended, sized according to the National Electrical Code for the current shown on the pump name plate.

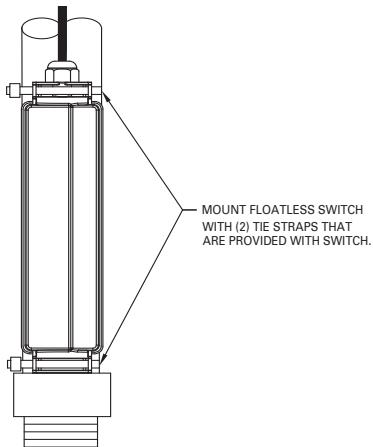
 **WARNING** **FOR YOUR PROTECTION, ALWAYS DISCONNECT PUMP FROM ITS POWER SOURCE BEFORE HANDLING.** Single phase pumps are supplied with a 3-prong grounded plug to help protect you against the possibility of electrical shock.

 **WARNING** **DO NOT, UNDER ANY CIRCUMSTANCES, REMOVE THE GROUND PIN.** The 3-prong plug must be inserted into a mating 3-prong grounded receptacle. If the installation does not have such a receptacle, it must be changed to the proper type, wired and grounded in accordance with the National Electrical Code and all applicable local codes and ordinances.

CAUTION The 10-4660 water level floatless switch is designed for use with the appropriate voltage and horsepower, nonautomatic, single phase Zoeller pumps.

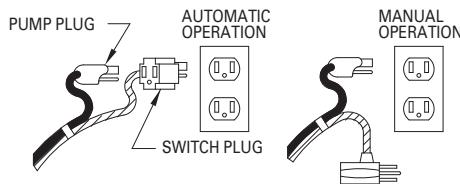
CAUTION Maximum temperature must not exceed 122 °F (50 °C). NOTE: cULus code approval. NOTE: Consult factory for controlling units over 1/2 HP with variable level float switch.

FIGURE 1



PART NO.	SUMP	SEWAGE	MODEL NO.	VOLTAGE	PHASE
10-4660	X	X			
53-0084	X		LN53	115V	1
98-0069	X		LN98	115V	1
267-0121		X	LN267	115V	1

FIGURE 2



SK3180

INSTALLATION INSTRUCTIONS

1. Loop provided tie strap through switch as shown in Figure 1 and 3, leaving approximately 3" of slack for ease of installation.
2. Lower switch into pit.
3. Place the bottom of the switch against the discharge pipe. **OFF** level should be approximately 4" above the inlet of the pump. The **ON** level must be below the check valve, the inlet and lid of the pit.
4. Be certain the outward face of the switch has 2" minimum clearance from any foreign objects, including the wall of the pit, the discharge pipe, and the pump.
5. Securely fasten top and bottom of the switch to the discharge pipe by tightening the two tie straps.
6. Insert the piggyback plug from the switch into a standard grounded outlet of proper voltage.
 For installation using watertight junction box, reference Figure 4.
7. Securely tape or clamp both switch and pump cord to the discharge pipe, clear of switch range (refer to step 4).
8. Plug sump pump into the switch's piggyback plug. See Figure 2.
9. Clean basin free of debris after installation.
10. Check and test your installation. Fill basin with water and allow pump to cycle to ensure proper range and operation.

Note: The Floatless control switch needs a minimum of 2" clearance between all foreign objects in the basin / pit. The switch has a maximum run time of 2 minutes. Ensure your basin is appropriate before installing the Floatless switch.

OPERATION:

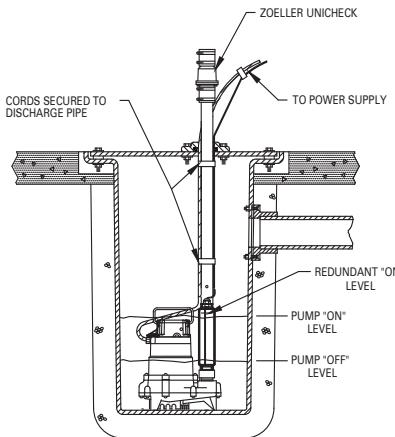
1. Allow the sump to fill until the water level reaches the **ON** point.
2. Sump pump will turn on within 3 seconds of the water level reaching the **ON** point.
3. The pump will remain on until the water level drops below the **OFF** point. The pump may remain on up to 1 second after passing the **OFF** point.
4. This will set the standard run time for the switch.
5. If the pump runs for longer than the standard run time, the standard run time will be incremented by 5 seconds on future cycles. This will repeat until the run time is long enough for the water to reach the off level or the run time is increased to two minutes.
6. If water is over the "ON" level the pump will run continuously until the water is below the "ON" level, at which point the switch will revert to standard operation.

FLOATLESS SWITCH MAINTENANCE

Warning: Unplug Floatless switch and pump from all electrical power BEFORE doing any service or maintenance.

- Inspect area around pump switch, wipe free of buildup and clear all foreign objects.
- Plug pump switch and pump back into receptacle after inspection. Check for proper operation.
- We recommend that you do this maintenance at least once a year. However, harsh environmental conditions may dictate the frequency of your actual maintenance schedule.

FIGURE 3

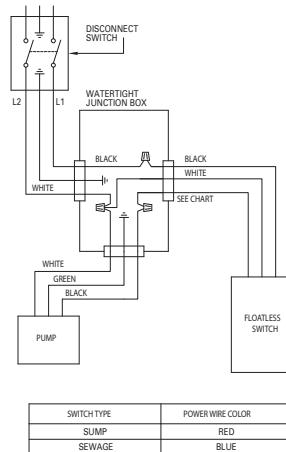


SK3180

- Floatless pump switch contains NO serviceable parts. Do not disassemble pump switch. Doing so can result in death or electrical shock and voided warranty.
- If pump switch stops working, refer to troubleshooting instructions provided.
- If part is under warranty, contact factory or sale location.
- If part is not under warranty, the lawful disposal of unit is necessary.

FIGURE 4

For direct wire installations only



SWITCH TYPE	POWER WIRE COLOR
SUMP	RED
SEWAGE	BLUE

TROUBLESHOOTING FOR FLOATLESS WATER LEVEL SWITCH

SYMPTOM	POSSIBLE ROOT CAUSE	POTENTIAL CORRECTIVE ACTION
A. Pump will not start or run.	Switch cord improperly plugged into receptacle	Properly insert plug into receptacle
	Pump cord improperly plugged into pump switch plug	Properly insert pump cord into pump switch piggyback plug
	Blown panel fuse or breaker	Replace with proper sized fuse or reset breaker
	GFCI receptacle tripped	Reset GFCI receptacle
	Low voltage	If voltage under 108 volts, contact qualified electrician
	Main power outage	The pump switch will not work without power
	Contamination built-up on pump switch exterior	See "Switch Maintenance" for proper cleaning instructions
	Improper mounting/ loose	See "Installation Instructions"
	Damaged or defective pump switch	Contact Zoeller Product Support
B. Pump starts and stops too often.	Significant in-flow of water	This is normal. Check pump specification to confirm adequate pumping capacity
	Pump switch mounted facing inlet pipe	Reinstall switch facing away from inlet pipe
	Defective check valve	Replace the check valve
	Excessive temperature	Let system cool down for 5 minutes
	Improper mounting/ loose	See "Installation Instructions"
	Damaged or defective pump switch	Contact Zoeller Product Support
C. Pump will not shut off when water is not present at the lower limit.	Contamination built-up on pump switch exterior	See "Switch Maintenance" for proper cleaning instructions
	Improper mounting/ loose	See "Installation Instructions"
	Foreign conductive object near sensor	Remove foreign object
	Damaged or defective pump switch	Contact Zoeller Product Support



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