NOTICE TO INSTALLER: Instructions must remain with installation.

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



SECTION: 2.50.240 FM3087 1018 Supersedes New

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ZOELLER FLOATLESS WATER LEVEL SWITCH

10-4659, 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.

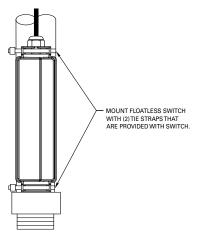
▲ CAUTION

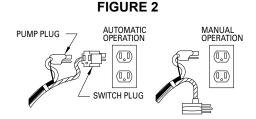
Zoeller 10-4659 and 10-4660 water level Floatless switches are designed for use with the appropriate voltage and horsepower, nonautomatic, single phase Zoeller pumps.

▲ 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
10-4659	X				
10-4660		X			
53-0084	Х		LN53	115V	1
98-0069	Х		LN98	115V	1
267-0121		X	LN267	115V	1

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.
- 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.
- 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.

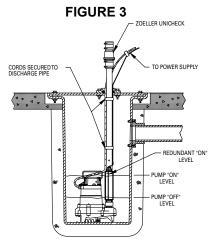
OPERATION:

- 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.
- 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.

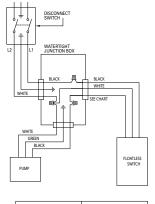


Floatless pump switch contains NO serviceable parts.
 Do not disassemble pump switch. Doing so can result in death or electrical shock and voided warranty.

- 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 sump pump switch plug	Properly insert pump cord into sump 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 sump pump switch will not work without power	
		Contamination built-up on sump pump switch exterior	See " Switch Maintenance" for proper cleaning instructions	
		Improper mounting/ loose	See "Installation Instructions"	
		Damaged or defective sump pump switch	Contact Zoeller Product Support	
В.	Pump starts and stops too often.	Significant in-flow of water	This is normal. Check pump specification to confirm adequate pumping capacity	
		Sump pump switch mounted facing inlet pipe	Reinstall sump 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 sump 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 sump 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 sump pump switch	Contact Zoeller Product Support	

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