

# 860 SERIES Pump Switch

**BOSHART**  
INDUSTRIES

## OPERATION, MAINTENANCE AND INSTALLATION MANUAL

### WARNING:

Warning: Turn off all power when installing or adjusting unit. Failure to turn off all power could result in serious injury or death!

**WARNING:** End user to provide overcurrent protection rated at 240VAC minimum, 13 Amps maximum.

*Read instructions thoroughly. Check local codes and install to meet requirements.*

*UL Listed. Suitable for Water and Sewage.*

*Note: Check to make sure the right float switch is being used for the right application.*

### NORMALLY OPEN

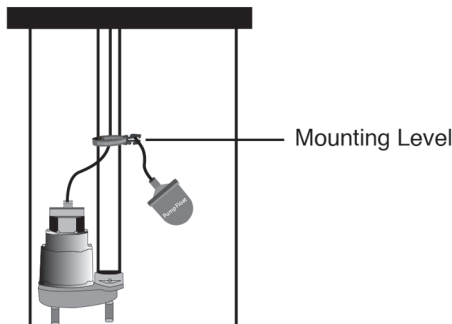
Float switches are open while hanging “down” and will close on a rising liquid level. Typically used for “empty tank” applications.

### NORMALLY CLOSED

Float switches are closed while hanging “down” and will open on a rising liquid level. Typically used for “filling tank” applications.

1. Determine desired cord tether length . See Figure 2.
2. Attach the Pipe Clamp at the desired location. See Figure 1. Adjust the tether length to achieve the desired desired pumping range.
3. Tighten the clamp as tight as possible.
4. Electrical outlet must not be located in pump chamber. Electrical outlet voltage, piggyback plug voltage, and pump voltage must match. Insert switch’s piggyback plug into outlet. Plug pump into piggyback plug and check the system by allowing the system to cycle to insure proper operation.

**FIGURE 1**



Typical application shown  
is for a pumping system

**FIGURE 2**

Tether Length	Pumping Range
4"	8"
5"	9"
6"	10"
7"	11"
8"	12"
9"	13"
10"	14"
11"	15"
12"	16"
13"	17"
14"	18"
15"	19"
16"	20"
17"	21"
18"	22"

**CAUTION:** Use Only As A Guide, Actual Testing Must Be Performed To Obtain Actual Pumping Range.

**CAUTION:** Minimum Tether Length is 4"

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### SPECIFICATIONS

**Electrical:** 13 amp @ 120 VAC/240 VAC

**Cord:** SJOW-A flexible 14 gauge, 2 conductor neoprene

**Float Housing:** High Impact PVC, 3.25" diameter x 4.55" length

**Max Temperature:** 140 degrees F.

**Switch Configuration:** Single Pole, Single Throw