

# Instruction Bulletin

## Type FG 31 Float Switch Class 9036

### INTRODUCTION



The Class 9036 Type FG 31 float switch is designed for liquid level control with electric motor operated pumps either directly or through a magnetic starter. It can also be used to activate alarms in liquid level control systems. The upward or downward movement of the lever arm of the Class 9036 Type FG 31 float switch controls the ON and OFF positions corresponding to the water levels changes required to turn the pump or alarm on and off.

This float device can be used to empty a sump (standard action). Water level change is determined by the positioning of the float stops on the float rod.

### **⚠ DANGER**

#### HAZARDOUS VOLTAGE

- Disconnect all power before installing this product.
- Install this product in accordance with all applicable plumbing and electrical codes.
- This product should be used in a grounded system equipped with a ground fault interrupter device.
- Do not stand on a wet surface while installing this product.

**Failure to follow this instruction will result in death or serious injury.**

### **⚠ WARNING**

#### COMBUSTION HAZARD

Do not use FG 31 Float Switch with flammable liquids.

**Failure to follow this instruction can result in death or serious injury.**

### SPECIFICATIONS

Electrical Ratings			
Voltage	Horsepower		
32 VDC	1/4 hp	—	—
120 VAC	—	2 hp	—
240 VAC single phase	—	—	3 hp
Temperature Ratings			
Operating temperature	32–140 °F (0–60 °C)	32–140 °F (0–60 °C)	32–140 °F (0–60 °C)
Storage temperature	32–158 °F (0–70 °C)	32–158 °F (0–70 °C)	32–158 °F (0–70 °C)
Enclosure Rating			
NEMA Type 1			

### MOTOR PROTECTION

A float switch of this type does not afford motor protection, however, it is frequently used as a pilot to operate a starter providing these desirable features. Square D manufactures a complete line of motor protective switches. For information on these and other Square D products, contact your Square D sales representative.



## INSTALLATION

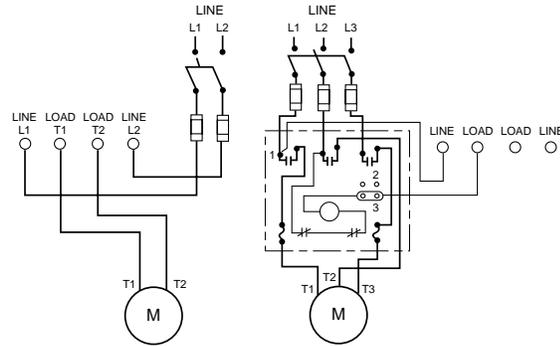


Figure 1: Wiring Diagram

Mount the switch in a horizontal position, using the mounting bracket provided. The float rod and float assembly should be attached to the device operating lever on the conduit end of the device as shown in Figure 2.

The rod has two drilled holes near one end, about 3/8" apart. Referring to Figure 2, insert the rod (A) through the device operating lever (B). Spread the sides of the Float Rod Attaching Clip (C) and push them through these holes so that one side of the clip is above and one side of the clip is below the lever. Bend the top side of the clip up against the rod to hold it in place (D).

Check the float and rod travel after installation to be sure that the mechanism does not bind.

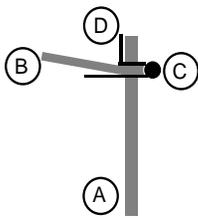


Figure 2: Correct Placement of the Float Rod Attaching Clip



## REPLACEMENT PARTS



Item Number	Description	Number Req'd	Part Number
1	Replacement Cover	1	65079-701-52
2	Set of movable and stationary contacts	1	9998 PC-242
3	Float Rod Attaching Clip	1	73259-053-01

When ordering replacement parts, always give complete Nameplate data.

## ACCESSORIES

Item Number	Description	Number Req'd	Class	Type
4	Plastic Center Hole Float	1	9049	A60