

# Instruction Bulletin

Replaces 883AS dated 10/85

## Closed Tank Float Switch with Flange Mounted Vertical Action Class 9037 Type DG

### INTRODUCTION

The Class 9037 Type DG float switch automatically controls the liquid level in closed tanks by a vertical float movement.

The contacts of a standard action float switch *close* when the liquid level is high and *open* when the liquid level is low. The contacts of a reverse action switch (Form R) *open* when the liquid level is high and *close* when it is low. You cannot change the switch operation (standard/reverse) in the field.



### SPECIFICATIONS

**Table 1: Double-Pole Electrical Ratings**

Electrical Ratings					
No. of Poles	Voltage	Horsepower			Control Circuit Rating
		Single Phase AC	Polyphase AC	DC	
2-Pole (DG)	115 VAC	2 hp	3 hp	1/2 hp	A600
	230 VAC	3 hp	5 hp	1/2 hp	A600
	460/575 VAC	—	1 hp	—	A600
Temperature Rating					
-40 to 185 °F (-40 to +86 °C)					
Pressure Rating					
50 PSI					
Enclosure Rating					
NEMA Type 1					

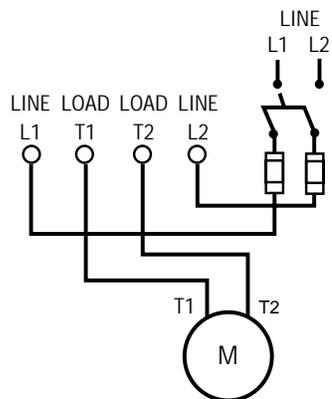
**⚠ DANGER**

**HAZARDOUS VOLTAGE**

- Disconnect all power before wiring or servicing float switch.
- Install and secure the cover before restoring power.

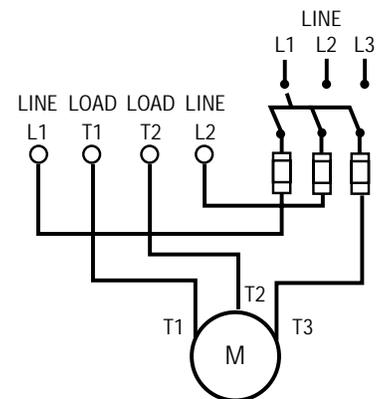
**Electric shock will result in death or serious injury.**

**Motor Controller Application**



**DOUBLE-POLE SINGLE-PHASE**  
Inherent Protection in Motor

**Control Circuit Switch Application**



**FLOAT SWITCH WITH AC STARTER**

### Wiring Diagrams

**Figure 1: Wiring Diagrams**

### Motor Protection

These float switches do not provide motor protection, but can be used as a pilot to operate an overload-protected starter. Contact your local Square D sales office for information on our complete line of motor starters.

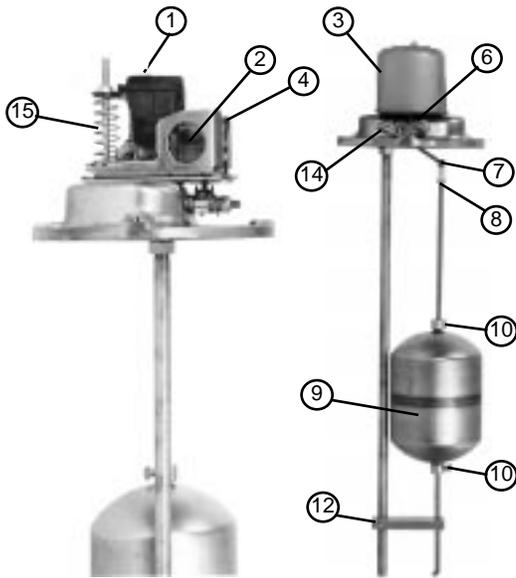
## INSTALLATION

Mount the float switch directly to the tank, using the four 13/32 in. diameter holes on the flange of the switch. Flange gaskets (not provided) are optional. Wire the float switch for your application (see Figure 1).

## ADJUSTMENT

These float switches are factory set with a specified float travel for a given length of rod. To increase the float travel, increase the distance between the two stop collars (item 10). To decrease the travel, decrease the distance between the stop collars. A guard is provided to prevent the operating lever from getting tangled with the load and line wires.

## REPLACEMENT PARTS



**Table 2: Replacement Parts** <sup>[1]</sup>

Item	Description	Qty.	Part No.		
1	Set of movable and stationary contacts	1	9998 PC-242		
	Standard action	1	2666-C5-G3		
2	Switch mechanism	Reverse action	1	2666-C6-G1	
		(Form R) [2]			
3	Replacement cover (specify complete Class and Type no.)	1	65079-701-50		
4	Guard	1	4356-L6-X1		
6	Lever assembly	1	4356-G1		
7	Retaining ring	1	29909-01010		
8	Nut		1	23005-00160	
		#304 stainless steel	DG1-3	1	65073-003-50
		float	DG4-8	1	65073-003-51
		#316 stainless steel	DG1-3	1	65073-003-52
		float (Form Z5 only)	DG4-8	1	65073-003-53
10	Brass stop	2	4356-X5		
12	Brass rod link	1	4356-L4-X1		
14	Lever assembly	1	4356-G2		
15	Compensating spring	DG1-3	1	4356-X6	
		DG4-8	1	1530-X81	
	Replacement Viton seal	1	9998 PC-341		

[1] When ordering replacement parts, always give complete nameplate data.

[2] Form R mechanism includes a compensating spring.