



# Externally-Mounted Bottle-Style Level Switches Model F7-EB

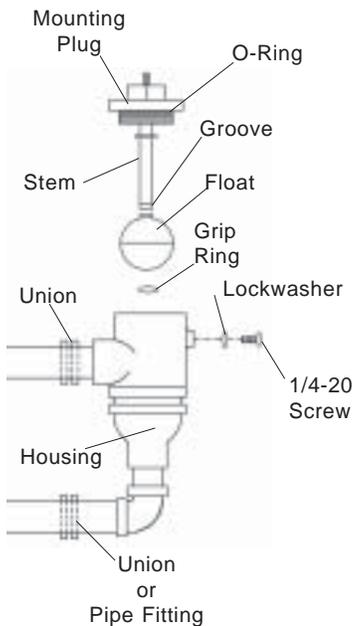
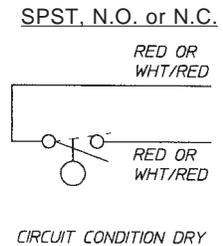
## To Install . . .

Locate and prepare entrances in tank side so that level switch unit will be in vertical position with wire leads up when installed on outside of tank. Connect NPT inlet and outlet ports of unit to tank entrances. 1/2" NPT in top of unit provides for electrical connection. **(See wiring information below and on back of sheet.)** Use 1/4"-20 threaded mounting holes to attach unit on any suitable vertical surface.

### - Specifications -

Operating Temperature	-40°F to 300°F (-40°C to 148.9°C)
Pressure Rating	500 psig Max @ 70°F
Electrical Termination	No. 18 AWG, 24" L, Polymeric Lead Wires
Approvals	U.L. Recognized File No. E45168 CSA Report LR 30200
Switch Operation	Selectable, N.O. or N.C. by Inverting Float On Stem
Mounting Attitude	Vertical with Lead Wires Up
Switch	20 VA (Pilot Duty)

### Typical Wiring Diagram



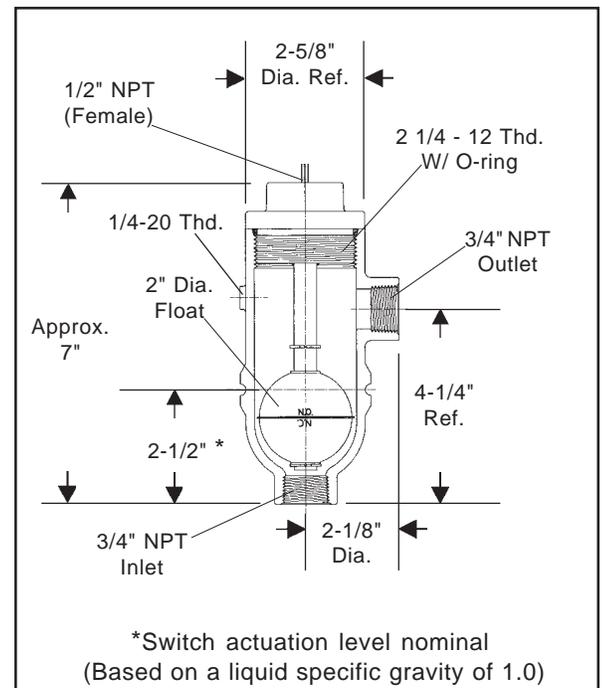
Standard single level units are supplied with SPST switch operation, N.O. (Dry).

**To convert operation to N.C. (Dry):** Remove level switch unit from housing, remove lower grip ring and invert float on unit stem. Reinstall lower grip ring into groove and reinstall level switch unit\*\* in housing.

\*\*Clean or replace O-ring on mounting plug (if required) before reinstalling float/stem assembly in housing. Mounting plug must be installed flush with housing.

#### Note

Switch operation can be selected without disturbing installation of unit on tank.



**Maintenance (All Units) . . .** An occasional "wipe-down" cleaning is the only maintenance normally required.

## **MAINTENANCE/REPAIR**

Regular maintenance of the total system is recommended to assure sustained optimum performance. These devices are not field repairable and should be returned to the factory if recalibration or other service is required. After first obtaining a Returned Goods Authorization (RGA) number, send the unit freight prepaid to the following. Please include a clear description of the problem plus any application information available.

Dwyer Instruments, Inc.  
Attn: Repair Department  
102 Highway 212  
Michigan City, IN 46360

### **Important Points!**

Product must be maintained and installed in strict accordance with the National Electrical Code and Dwyer product catalog and instruction bulletin. Failure to observe this warning could result in serious injuries or damages.

For hazardous area applications involving such things as (but not limited to) ignitable mixtures, combustible dust and flammable materials, use an appropriate explosion-proof enclosure or intrinsically safe interface device.

The pressure and temperature limitations shown on the individual catalog pages and drawings for the specified level switches must not be exceeded. These pressures and temperatures take into consideration possible system surge pressures/temperatures and their frequencies.

Selection of materials for compatibility with the media is critical to the life and operation of Dwyer products. Take care in the proper selection of materials of construction, particularly wetted materials.

Life expectancy of switch contacts varies with applications. Contact Dwyer if life cycle testing is required.

Ambient temperature changes do affect switch set points, since the specific gravity of a liquid can vary with temperature.

Dwyer Products have been designed to resist shock and vibration; however, shock and vibration should be minimized.

Filter liquid media containing particulate and/or debris to ensure the proper operation of our products.

Electrical entries and mounting points in an enclosed tank may require liquid/vapor sealing.

Dwyer Products must not be field-repaired.

Physical damage sustained by the product may render it unserviceable.