



Stock No. 1010117

UL and CSFM Listed

Dimensions: Housing - 5.56"H x 3.50"W x 2.56"D
14,1cm H x 8,9cm W x 6,5cm D

Weight: 3.25 lb / 1.47 Kg

Enclosure: Cast aluminum with red enamel finish

Applications: Steel or wood tanks
(With the optional wood bushing adapter, Stock No. 5180199)

Contacts: Two sets SPDT (Form C)
One set for high / One set for low
Rated - 15.00 Amps at 125/250VAC
0.50 Amp at 125VDC
0.25 Amp at 250VDC

Detection Range: Before 3" (7,6cm) Rise /Before 3" (7,6cm) Fall

Environmental Specifications:

- Suitable for indoor or outdoor use
- Temperature range: 40°F to 140°F (4,5°C to 60°C)
- NEMA 4 rated enclosure - when used with proper conduit fittings

Maximum Pressure: 175 PSI (12,1 BAR)

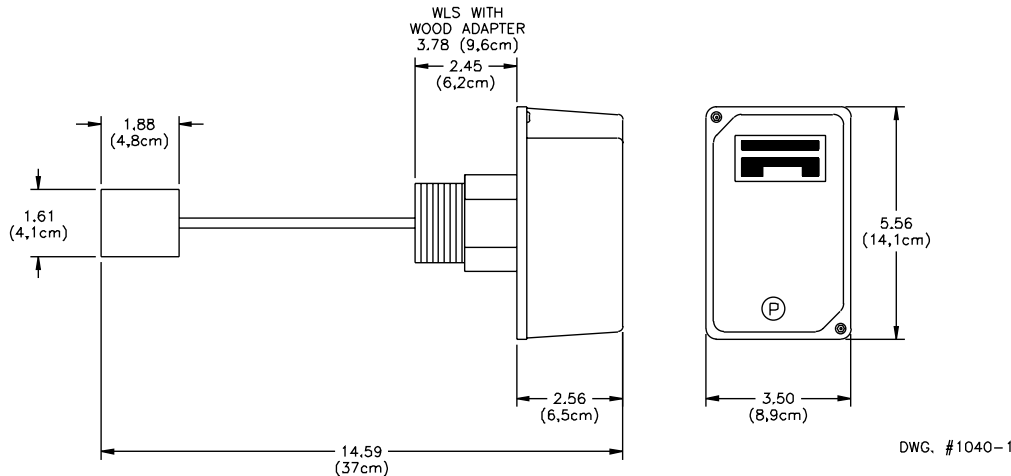
The Model WLS Water Level Switch is a float operated device for supervising water level in a sprinkler supply gravity or pressure tank.

The Model WLS has a bushing with 1 1/2" American Standard Pipe Threads for mounting in steel tanks. A 1 1/2" x 2" adapter bushing is available for mounting in existing 2" steel flanges. An optional bushing adapter with a buttress thread is available for mounting in wooden tanks.

The unit is capable of detecting the level of water before a 3" (7,6cm) rise and/or a 3" (7,6cm) fall in the water level in a pressure tank, as required.

The cover is held in place with two tamper resistant screws (provided), which require a special key for removal.

Fig. 1



Installation Instructions

A buttress thread nut and gasket are available for use with devices on installations where the inside of the tank is accessible and it is not convenient to weld a flange on the tank. The nut and gasket can also be used in a wood tank that is not sound enough to hold a thread (see Fig. 2).

For installation in steel gravity tanks, weld a 1 1/2" NPT threaded flange (#6660225) 9" (23cm) below the required water level to receive the 1 1/2" bushing (see Fig. 3).

For wood gravity tanks, bore a 2 3/8" (60mm) hole in the center of a stave 9" (23cm) below the required water level and screw the buttress bushing adapter (#5180199) in place, allowing the bushing to cut its own thread, then install the WLS into the adapter (see Fig. 4).

Note: The high signal is not required for gravity tanks and the WLS can be wired so that either High or Low or both switches may be used (see Fig. 5). For pressure tanks, weld the 1 1/2" NPT threaded flange (#6660225) into the tank at the desired water level and use both high and low signals. To replace an existing Potter WLS in a steel tank with a welded flange a 1 1/2" x 2" NPT bushing adapter (#5020126) is available. Thread the bushing adapter into the 2" welded flange securely then install the WLS into the adapter.

⚠ CAUTION

Do not lift or hold device by float or float rod as bending may occur.

Fig. 2 Wood or Steel Tank Installation

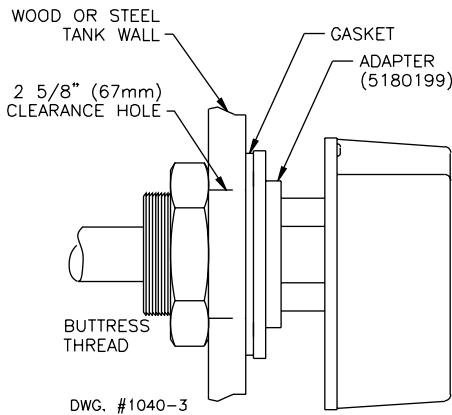


Fig. 3 Steel Tank Installation

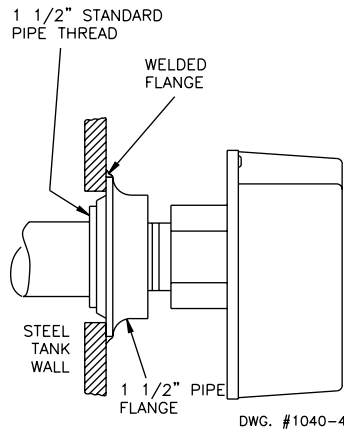


Fig. 4 Wood Tank Installation

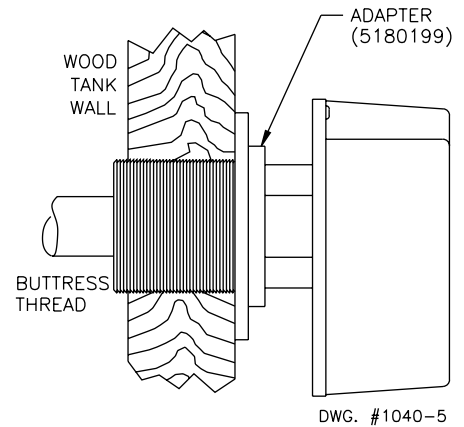
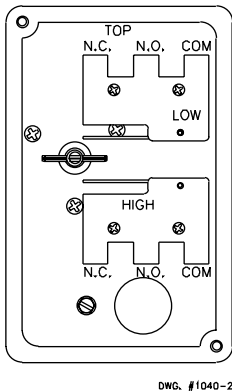
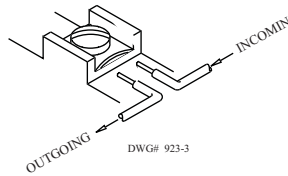


Fig. 5



Note:
Device must be oriented vertically with conduit entrance toward bottom of water tank.

**Switch Terminal Connections
Clamping Plate Terminal**



⚠ CAUTION

An uninsulated section of a single conductor should not be looped around the terminal and serve as two separate connections. The wire must be severed, thereby providing supervision of the connection in the event that the wire becomes dislodged from under the terminal.

Ordering Information

Device	Stock No.
WLS	1010117
Accessories	
Flange 1 1/2"	6660225
Buttress Nut	6660083
Gasket	5330025
Buttress Adapter 1 1/2" NPT x 2 1/2"	5180199
Bushing Adapter 1 1/2" NPT x 2" NPT	5020126