



PFS

The **PFS** probe is a hermetically sealed reed float switch that signals the presence of liquids. The probe resets immediately after the liquid presence of liquids drops below the activation level.

The unique design of the PFS probe integrator eliminates the need for additional power at the probe.

A **PFS** probe is available for the PAL-AT® or LiquidWatch® systems.

The **PFS** can easily be connected to a PAL-AT cable "sensing string" providing increased utilization of the PAL-AT capabilities. Each assembly includes a probe integrator with 60 ft (18 m) of jumper cable to connect to the sensing string, and 20 ft (6 m) of lead cable to attach the float switch to the probe integrator and a NEMA 4X junction box.

The **PFS** probe for LiquidWatch includes the probe adapter that is incorporated in the 20 ft (6 m) long probe lead wire. Additional lead wire is used if necessary.

PAL-AT NOTE:

- A "-S" probe must be connected in the first 5,000 ft (1,500 m) of the sensing string.
- A "-L" probe must be connected more than 5,000 ft (1500 m) from the PAL-AT panel.

PART NUMBERS:

<u>PAL-AT:</u>		<u>LiquidWatch:</u>	
PFS-S	8027623	PFS-LW	8027902
PFS-L	8027910		
JBXHTM	8027883		

JBXHTM high temperature modification replaces polyester junction box with a fiberglass box.

PROBE TECHNICAL DATA:

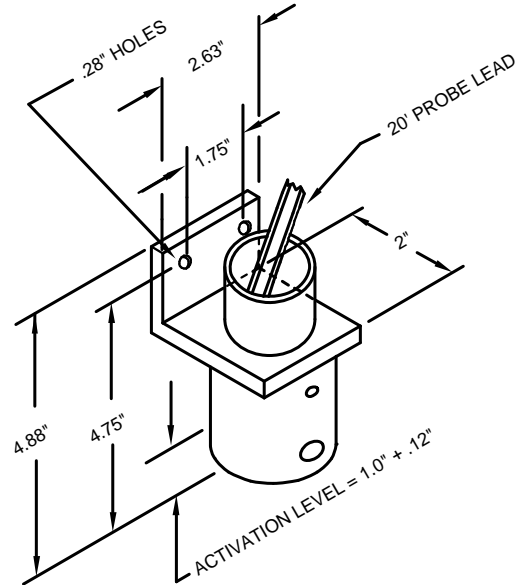
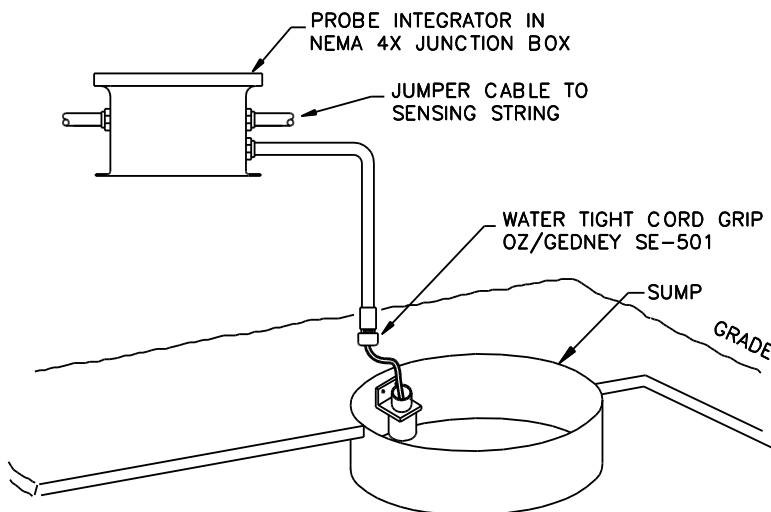
- Operating Temperature: -40°F to 176°F (-40°C to 80°C)
- Diameter: 1.63" (43 mm)
- Lead Length: 20 ft (6 m)
- Activation Level: Water: (S.G. = 1.0) 1.0" (25 mm)
Oil: (S.G. = .75) 1.5" (37 mm)
- Housing: PVC
- Float: Buna-N
- Special Materials Available on Request

JUNCTION BOX: (PAL-AT ONLY)

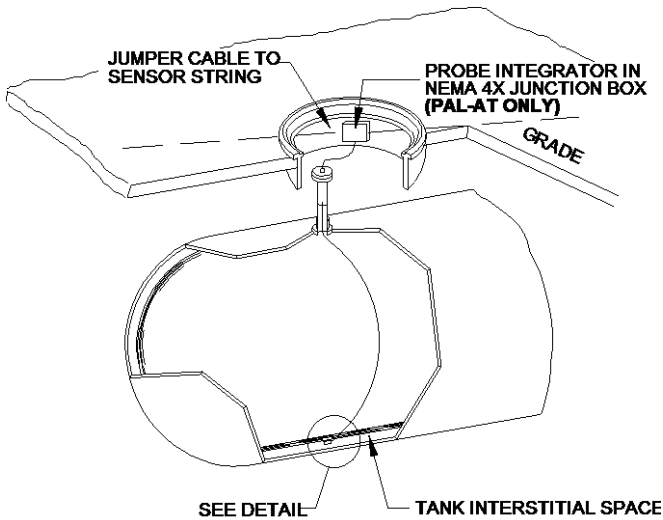
- NEMA 4X (IP66): 10" x 8" x 4"
(250 mm x 200 mm x 100 mm)
- Maximum Temperature: 150°F (65°C)
- Maximum Temperature of Probe Integrator 140°F (60°C) in Hazardous Areas
- JBXHTM enclosure available for maximum operating temperature of 176°F (80°C)

APPLICATIONS:

- Sumps
- Manholes



PFS FLOAT SWITCH W/ MOUNTING BRACKET



PROBE TECHNICAL DATA:

- Operating Temperature: -40°F to 176°F (-40°C to 80°C)
- Length: 1.50" (38 mm)
- Diameter: .625" (16 mm)
- Lead Length: 20 ft (6 m)
- Activation Level (min): .62" (16 mm)
- Material: 304 Stainless Steel

JUNCTION BOX: (PAL-AT ONLY)

- NEMA 4X (IP66): 10" x 8" x 4"
(250 mm x 200 mm x 100 mm)
- Maximum Temperature: 150°F (65°C)
- JBXHTM enclosure available for maximum operating temperature of 176°F (80°C)

APPLICATIONS:

- Sumps • Manholes • Double Wall Tank
- Sealed Trenches • Drip Panels
- Indoor Water Detection

PWS

The **PWS** probe detects all conductive liquids - water, acid, bases, chemicals, etc. Its solid-state, stainless steel construction allows it to be used in

corrosive environments and reset quickly after removal from a liquid.

The unique design of the **PWS** probe eliminates the need for external power at the probe.

A **PWS** probe is available for the PAL-AT® or LiquidWatch® system.

The **PWS** probe for the PAL-AT can easily be connected to a cable "sensing string" providing increased utilization of the PAL-AT capabilities. Each probe assembly includes a probe integrator with 60 ft (18 m) of jumper cable to connect to the sensing string, 20 ft (6 m) of lead wire to attach the probe to the probe integrator and a NEMA 4X junction box.

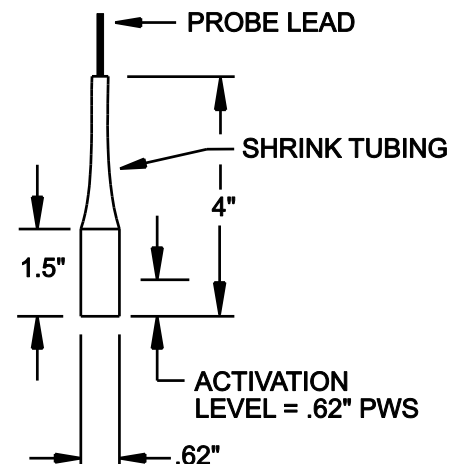
Note:

A **PWS** probe cannot be installed on a sensing string connected to a PAL-AT ZBA zener barrier assembly (in hazardous areas) (applies to AT30C, AT75C and AT30K only).

The **PWS** probe for Liquid-Watch includes the probe adapter. Additional lead wire is used if necessary.

PAL-AT NOTE:

- A "-S" probe must be connected in the first 5,000 ft (1,500 m) of the sensing string.
- A "-L" probe must be connected more than 5,000 ft (1,500 m) from the PAL-AT panel.



PROBE ASSEMBLY DETAIL

PART NUMBERS:

<u>PAL-AT:</u>	<u>LiquidWatch:</u>
PWS-S 8027630	PWS-LW 8027903
PWS-L 8027940	
JBXHTM 8027883	

JBXHTM high temperature modification replaces polyester junction box with a fiberglass box.

The information contained in this document is subject to change without notice. PermaAlert, a Division of PERMA-PIPE, Inc., believes the information contained herein to be reliable, but makes no representations as to accuracy or completeness. PermaAlert offers a sole and exclusive one year warranty as is stated in the Standard Terms and Conditions of Sale for these products. In no event will PermaAlert be liable for any indirect, incidental or consequential damages.