Pro Automation

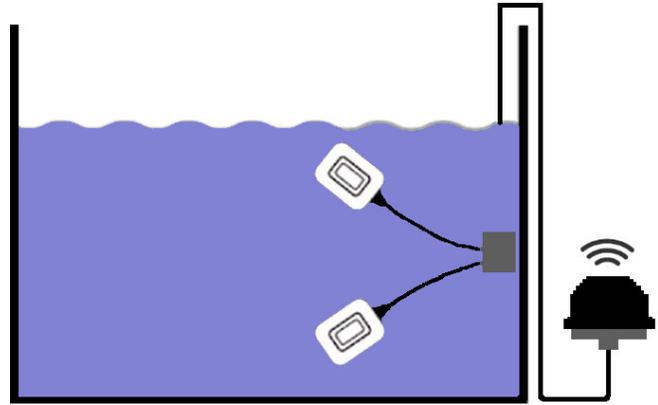# Installation Guide for LevelSense Float Switch

CAUTION:
These instructions are intended for use by professional plumbers who are trained in the proper use of power and hand tools, using appropriate safety precautions (including eye protection).

Introduction

LevelSense is used to indicate the level of liquid (water or other, similar liquids). LevelSense can be used in clean or dirty water.   It works with an app that needs to be installed on a smartphone in order to report on liquid levels.

To ensure the best performance from your equipment it is important that the LevelSense senor is installed and maintained correctly.

It is the installer's responsibility to read, understand, and comply with these instructions.

Pre-Installation Notes

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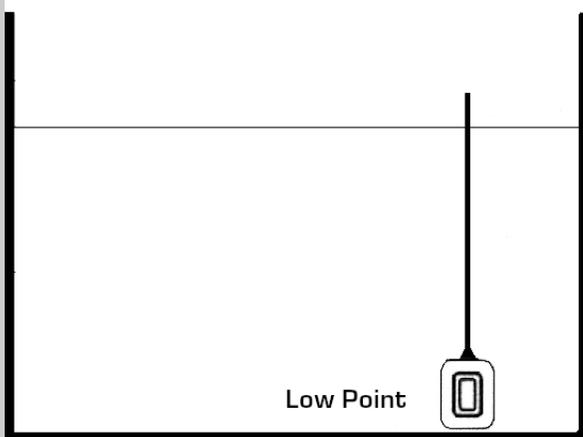Route all pipes and cables away from heat sources and moving components.

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LevelSense is designed for stationary applications only. For dynamic applications like rivers, please contact the supplier for more information and additional parts.
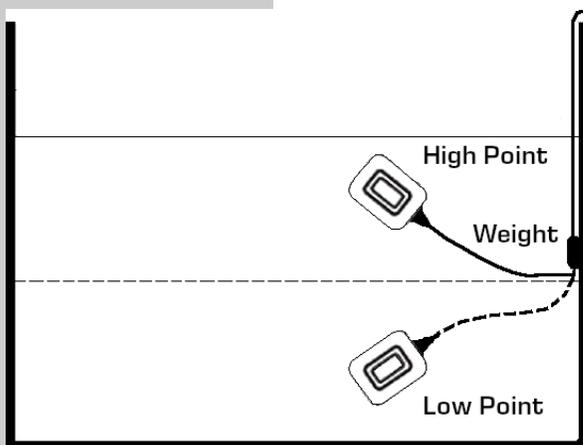
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Avoid exerting excessive tensile force on the cable (e.g. tugging)
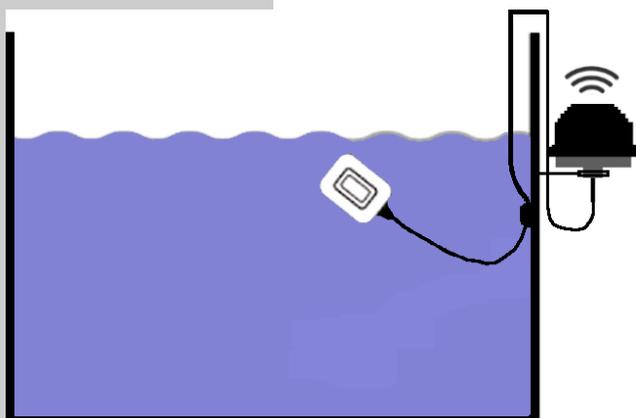
Installing LevelSense float switch in a container:

Step 1:

Find your low point. The lowest allowable point is a good place to hang the bottom of your float when it's vertical.
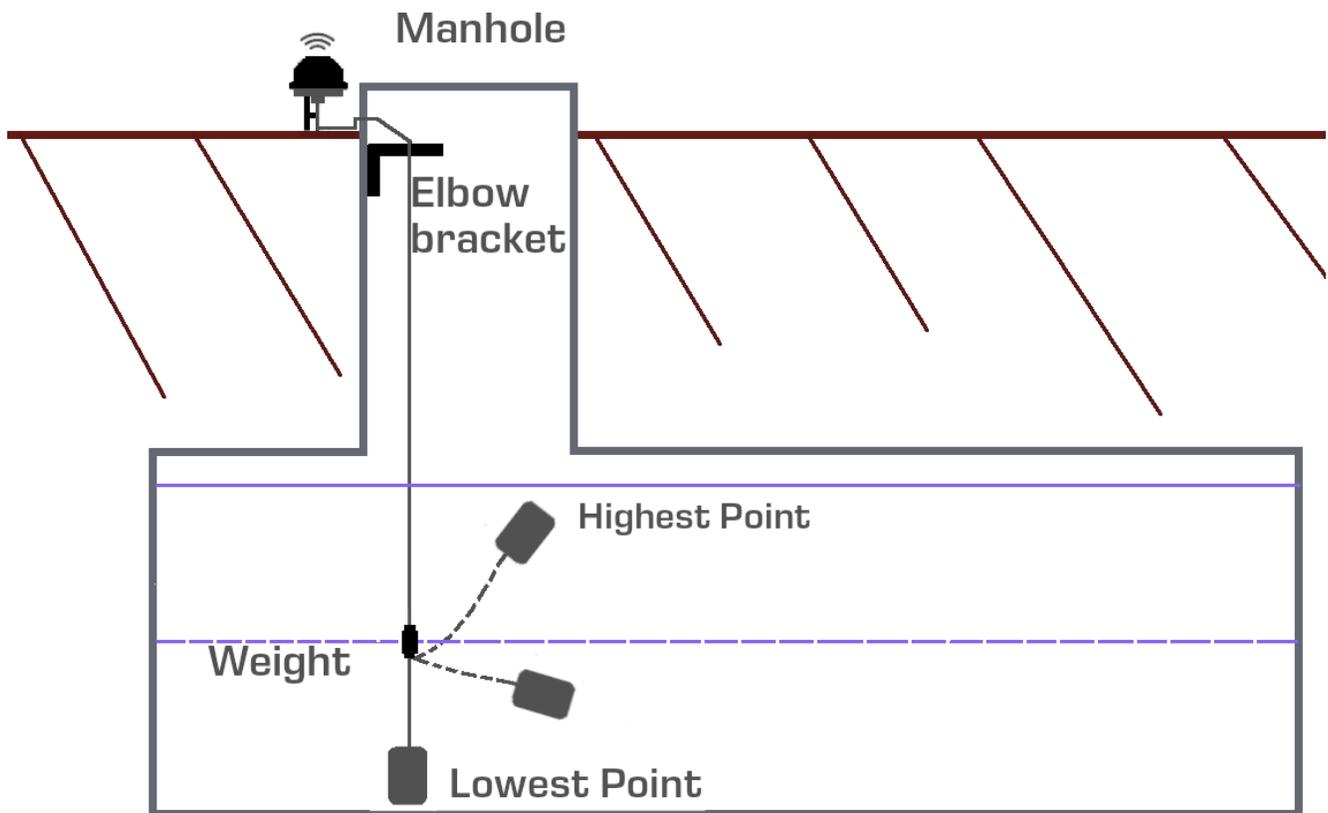
Low Point

Step 2:

In installations where the float switch is lowered freely into the tank, a weight is supplied. Adjust and fix the weight in the correct position depending on your tank depth. The correct position would be close to the middle between your high and low points.

High Point

Weight

Low Point

Step 3:

Position the communications unit outside the tank, where it will be protected from excessive moisture (rain) and dust.   Position the unit as high as possible to ensure good communication with the cloud. Secure the unit with screws or a simple bracket from your local hardware store.

Installing LevelSense float switch in a septic tank:

Manhole

Elbow bracket

Highest Point

Weight

Lowest Point

Step 1:

Mount an L-bracket on the side wall of the manhole. This will ensure that the float switch cable hangs in the centre of the tank and not against the side, restricting movement.

Step 2:

Next, drill a hole through the concrete with a 16mm drillbit and thread the cable through the hole.

Step 3:

Find your low point. The lowest allowable point is a good place to hang the bottom of your float when it's vertical. In installations where the float switch is lowered freely into the tank, a weight is supplied.

Adjust and fix the weight in the correct position depending on your tank depth. The correct position would be close to the middle between your high and low points.

Step 4:

Secure the cable to the elbow bracket with a cable tie to hold it in place.

Step 5:

Position the communications unit outside the tank, where it will be protected from excessive moisture (rain) and dust. Position the unit as high as possible to ensure good communication with the cloud. Secure the unit with screws or a simple bracket from your local hardware store.

Troubleshooting

Switching does not occur at desired level or time:
Raise or lower the float switch OR adjust the location of the cord weight.

LevelSense Does not transmit readings to my app.
Check the location of you sensor 's Sigfox coverage at
https://www.sigfox.com/en/coverage or contact support@proautomation.co

Pro Automation

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