

LS-2600 Leak Sensors



Level Sense LS2600 Surface Liquid Sensor connects to a control device accepting an analog or digital input.

- Size: L64*W15.6*H12.7mm
- Housing: ABS, white
- Working Voltage: 5Vdc-12Vdc
- Max. Voltage: 24Vdc
- Max. Working Current: 0.5 Amp
- Temperature: 14°F +150°F / (-10°C +65°C)
- 6 Feet of Cable
- Red wire to Positive, white wire to Negative (ground)
- Perfect for Arduino, Rasberry Pi, and home electronics projects.

If you are using this in home electronics projects, please take note of the following:

- This device is not providing a “contact closure” it is providing a trickle current between the two contacts when water with some ionic content is present.
- The Leak sensor behaves as an open circuit when no water is present, and behaves as a (roughly) 1.4MΩ resistor when water is present. The resistance of it *depends on your water*.
- To confirm if the device is working, place the ohmmeter probes directly into water approximately 1.5” inches apart and take a reading. Then place the sensor in water and connect the ohmmeter to the red and white wires. The two readings should be similar.
- To get the best circuit design, put the sensor feet in water and measure the resistance with an ohmmeter. Use this resistance in your circuit design.
- In the unlikely event you have “non-conductive” water, it can be easily rectified by sprinkling some salt around the sensor location. The water will absorb the salt, the salt will ionize the water, and allow it to conduct.
- If you are using this sensor as an input to an Arduino or raspberry Pi, it is recommended to use either an Analog input, or a “PULL UP” input where the sensor is taking an input to ground.

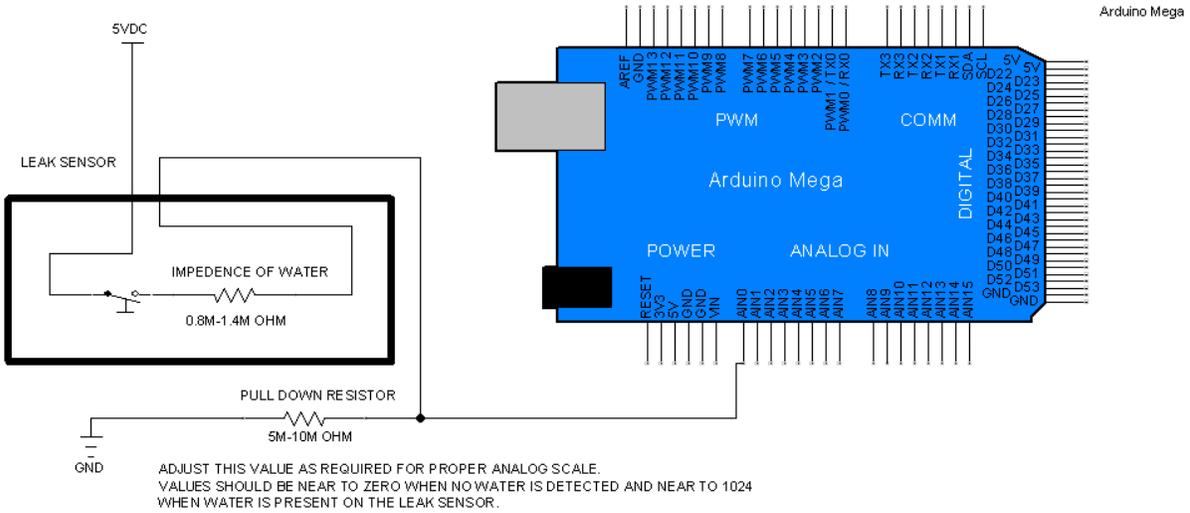
| Application | Red Wire Connection | White Wire Connection |
|--|---------------------|--|
| Arduino / RP Analog Input | +5VDC | Input, with 5MΩ Pull Down Resistor |
| Arduino Discrete Input (pinmode=PULL UP) | Input | Ground |
| Solid State Relay Control (with 3-32VDC Coil) and 12-24VDC+ Power Source | Coil - | Ground |
| Control a mechanical relay or contactor | DC Source | Transistor Base going into a “Darlington Pair” |

For help or assistance, call our support line at 314-787-8059 ext 2.

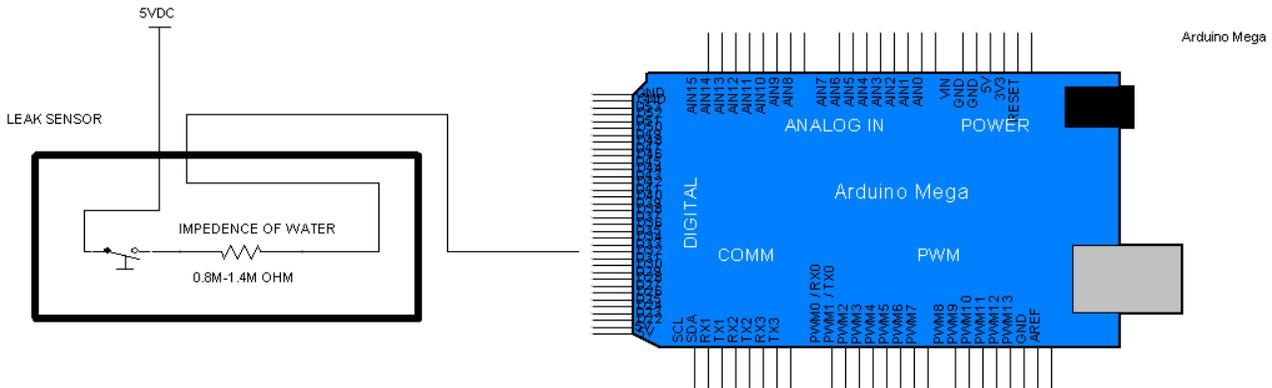
LS-2600 Leak Sensors



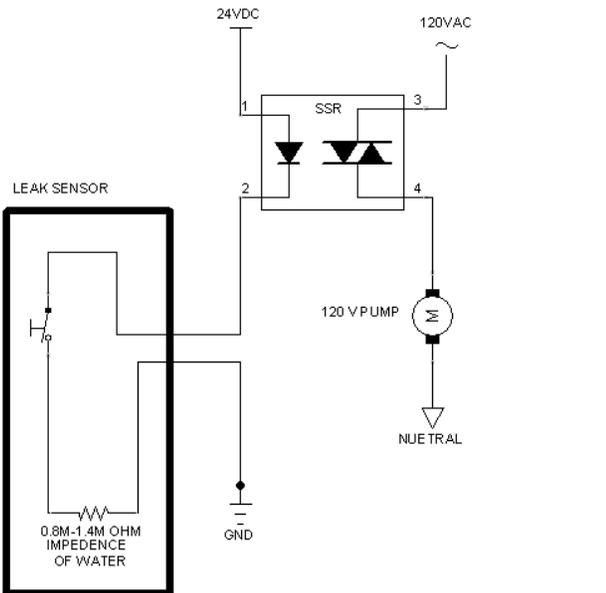
LS-2600 WITH MICROCONTROLLER ANALOG INPUT



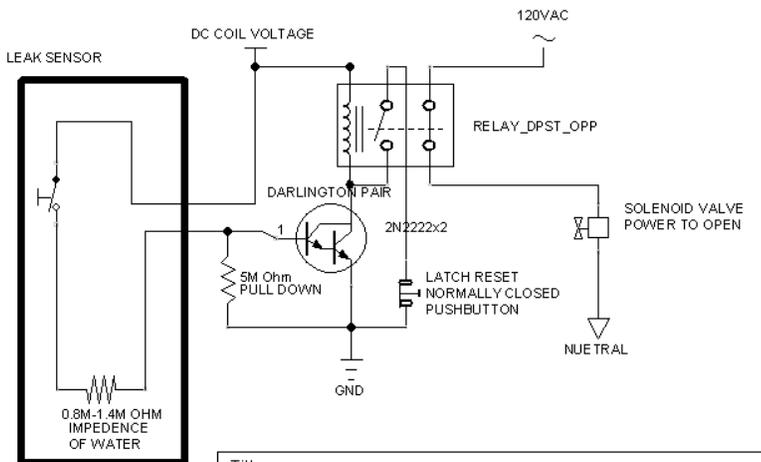
LS-2600 WITH MICROCONTROLLER DIGITAL *PULL UP* INPUT



ACTIVATING SOLID STATE RELAY WITH THE LS-2600 TO POWER A 120VAC PUMP (OR SOLENOID)



ACTIVATING A MECHANICAL RELAY WITH THE LS-2600 TO POWER A 120VAC SOLENOID (OR PUMP) CIRCUIT LATCHES ON WATER CONTACT



| | | |
|---|---------------------|------------------|
| Title LS-2600 EXAMPLE CIRCUITS | | |
| Author LEVEL SENSE BY SUMPALARM SUMP ALARM | | |
| File S:\TechnicalData\Lev ... ls-2600 circuits.dsn | Document LS-2600 | |
| Revision 1.0 | Date 02/19/2018 | Sheets 1 of 1 |