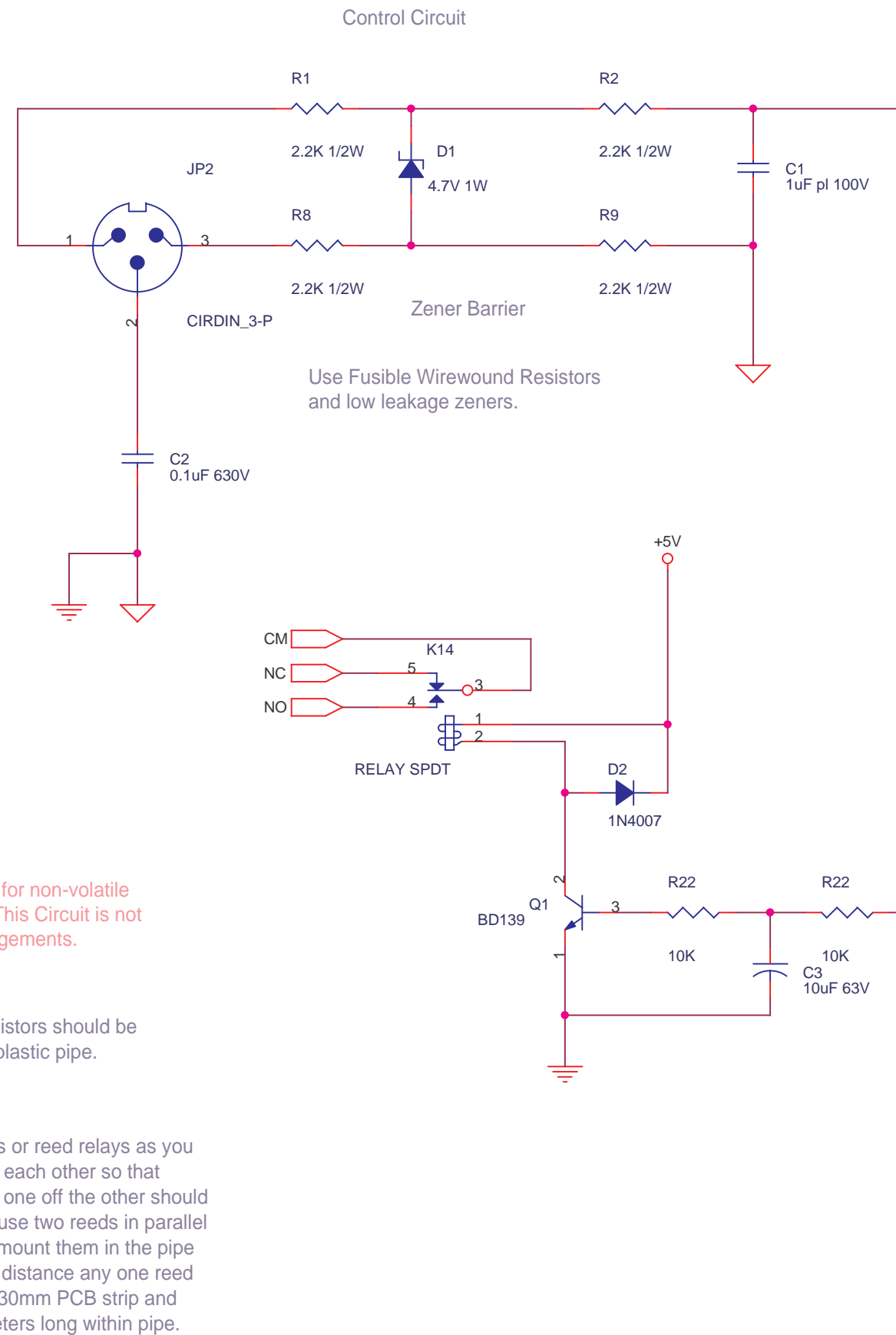


Use a Shielded 2+1 Cable from sensor to control box.

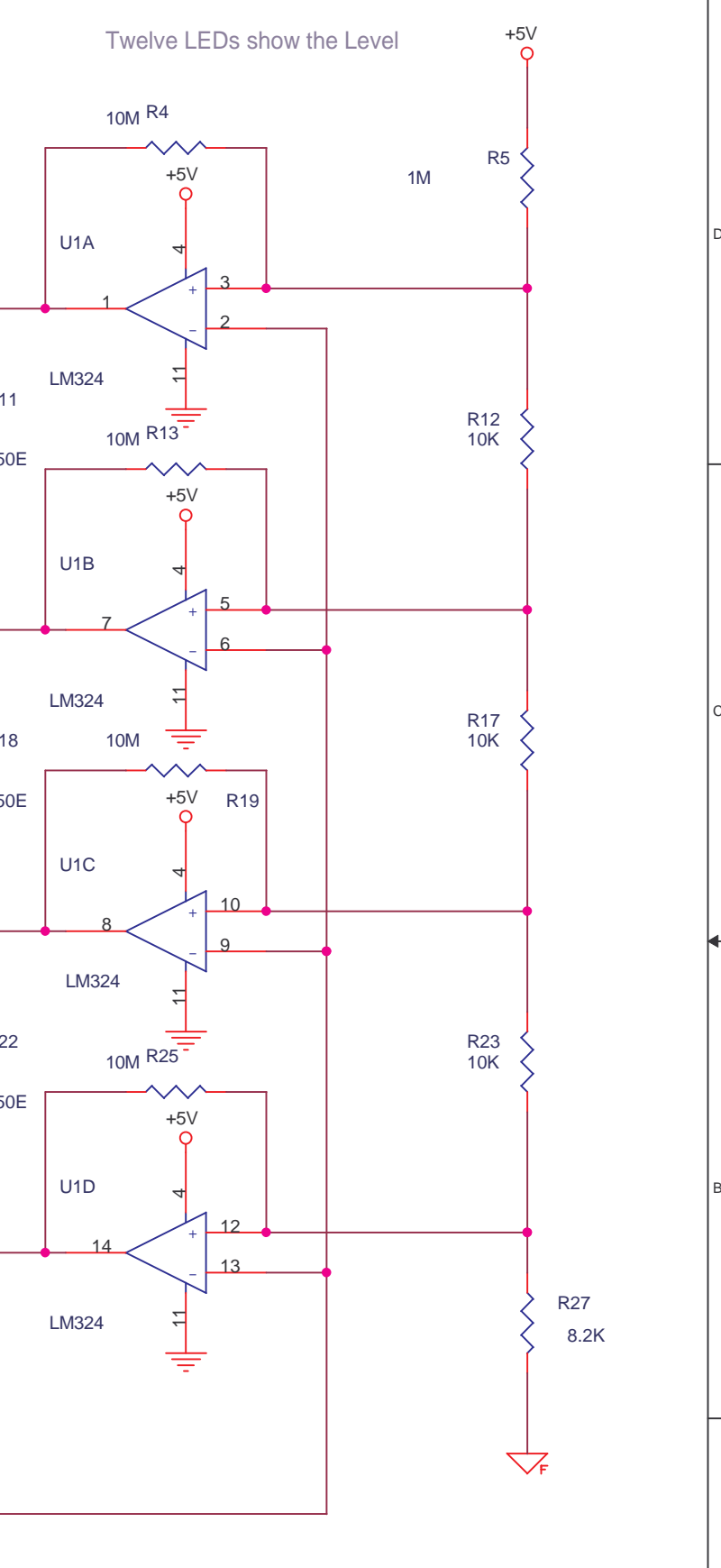
This Circuit should be used for non-volatile non-corrosive liquids only. This Circuit is not for Tank-Sump-Pump arrangements.

Sensor Reed Relays and Resistors should be Hermetically Sealed within a plastic pipe.

Sensor, use as many resistors or reed relays as you like, mount reeds overlapping each other so that when the magnetic float turns one off the other should on, another way of doing it is use two reeds in parallel for each shown in circuit and mount them in the pipe in such a way that all thru the distance any one reed should be on. Use a 5mm by 30mm PCB strip and join the strips to form PCB meters long within pipe.



Use Fusible Wirewound Resistors and low leakage zeners.



Shown Here for Bottom Four LEDs, Design for Twelve LEDs or Use the LM3914 circuit like in del20009.pdf

This circuit is an untested design concept.

use 74HCT40XX chips in place of CD40XX for only 5V and high speed designs. Use Shrink sleeves and proper gauge of wire. put 104 CD cap for all ICs from positive to negative close to IC, even if omitted in circuit, for opamps on dual supply two caps. unused inputs of logic and opamps pull up or down to avoid oscillations and noise. connect supply of all chips if not mentioned. "analog ground" and "digital ground" must be linked at power supply only, avoid loops, let grounds radiate from a ground plane. use MFR 1% for all Resistors, 33E means 33 ohms, 22K means 22 kilo ohms, 1M is 1 megohm. 10T tp means ten turn trimpot. '474 CD' is 47 with 4 zeros pF, 470000 pF, 470 nF, 0.47uF, ceramic disc. "pl" is plastic, low leakage multilayer.

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