

The diagram illustrates the wiring for the sensor cable connector. It consists of three main sections:

- J1 OUTPUT:** A 2-pin connector. Pin 2 is labeled "SIGNAL" and pin 1 is connected to "GND".
- J2 POWER:** A 3-pin connector. Pin 1 is labeled "+9V", pin 2 is connected to "GND", and pin 3 is labeled "-9V".
- J3 SENSORCABLE:** A 2-pin connector. Pin 1 is labeled "MID" and pin 2 is labeled "END".

All ground connections are indicated by a symbol labeled "GND".

[illegible]

The circuit diagram shows a precision rectifier using two TL074 op-amps. The input signal, labeled 'MEASURE', is connected to a capacitor C3 (0.01uF) and a resistor R12 (150k). The other end of R12 is connected to the non-inverting input (pin 2) of the first op-amp (TL074 U7A). The inverting input (pin 3) of U7A is connected to ground. The output of U7A (pin 1) is connected to a resistor R13 (150k) and a diode D3 (1N4148). The other end of R13 is connected to the non-inverting input (pin 2) of the second op-amp (TL074 U8A). The inverting input (pin 3) of U8A is connected to a diode D4 (1N4148). The other end of D4 is connected to the output of U7A. The output of U8A (pin 1) is connected to a resistor R15 (150k) and a diode D3 (1N4148). The other end of R15 is connected to a resistor R16 (150k) and a diode D4 (1N4148). The other end of R16 is connected to the output of U8A. The output of the circuit is labeled 'RECTIFY'.

The circuit diagram shows a TL074 op-amp (U9A) configured as a voltage doubler. The non-inverting input (pin 3) is connected to ground (GND). The inverting input (pin 2) is connected to a resistor R17 (80.6k) from a 'RECTIFY' block and a feedback network consisting of a resistor R18 (80.6k) and a capacitor C4 (1uF) connected to the output (pin 1). The output (pin 1) is connected to a 'SMOOTH' block.

The diagram shows a voltage follower circuit. A TL074 op-amp (U10A) is configured with its non-inverting input (pin 3) connected to a 'SMOOTH' input through a 1K resistor (R19). The inverting input (pin 2) is connected to the output (pin 1) through a 20K feedback resistor (R20). The output (pin 1) is labeled 'SIGNAL'. The op-amp is powered by a GND connection at pin 4.