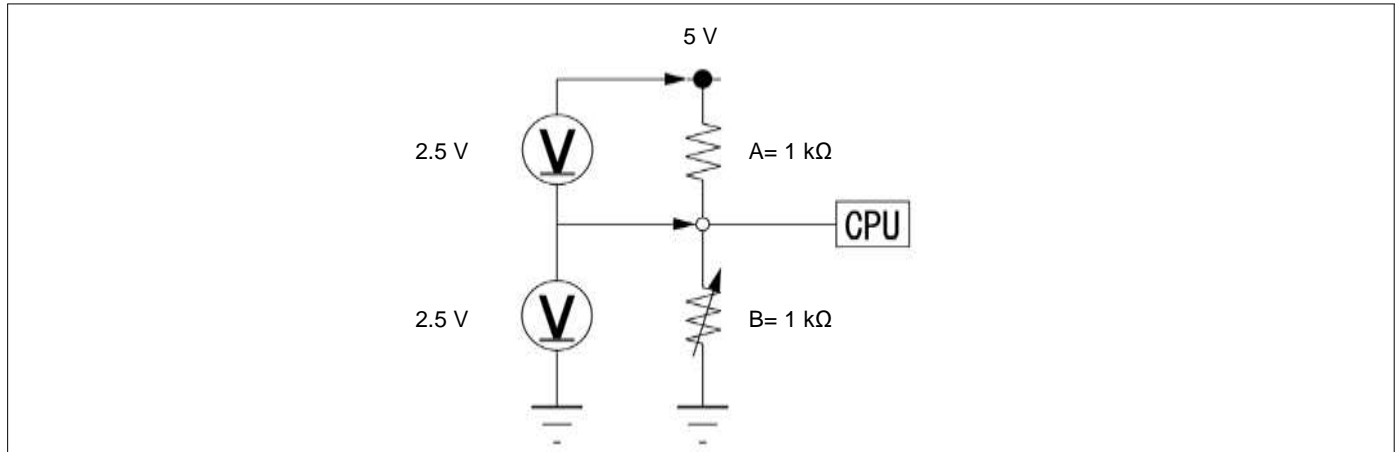## SENSORS

Two kinds of sensor are used for PGM-FI system.

1. The power is supplied from the ECM. The sensor sends the results of detecting to the ECM, shown by the voltage divided the power supply.
2. The sensor produces its own voltage or current and then sends to the ECM.

VOLTAGE DIVIDING SENSOR

See the figure below. Two resistors connected in series divide the 5 V power supply.

If resistor A and B have same resistance value, the 5 V power supply is divided equally. If one of resistor is larger or smaller than other, the voltages are not equal. The ECM receives the voltage measured at the point between two resistors.

In fact, fixed resistor A is located in the ECM and variable resistor B in the sensor. EOT and IAT sensors utilize this principle.

e.g.: EOT SENSOR