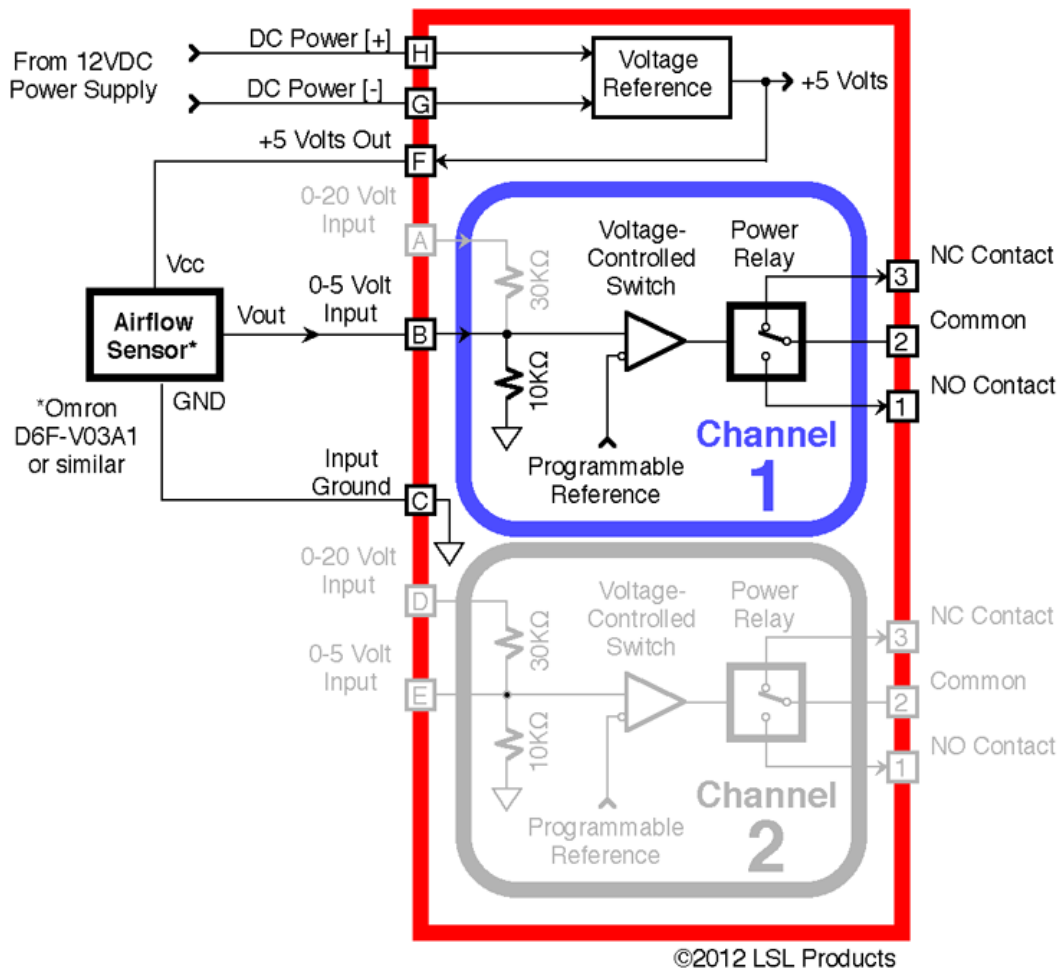


## Pro-VCS™ Application Example: Airflow Switch



This configuration uses an airflow sensor that produces a voltage which is proportional to the velocity of the air flowing past it. When the voltage exceeds the value programmed into the **Pro-VCS™**, its power relay operates. Only one of **Pro-VCS's** two channels is required to build this circuit.

A typical application might be to sound an alarm if the airflow in a ventilation system drops below a pre-set level (i.e., due to blower failure or filter obstruction).

This particular Omron sensor produces approx. 0.5 VDC at zero airflow, and approx. 2.0 VDC with an airflow velocity of 3 meters/second. The sensor requires +5 VDC at less than 15 mA, and thus can be powered by the **Pro-VCS's** 5 volt reference voltage output (Terminal F).

A companion cable is available that mates with the connector on the sensor (Omron P/N D6F-CABLE2)

Source for the D6F-V03A1 Airflow Sensor and companion cable: MOUSER ELECTRONICS ([www.mouser.com](http://www.mouser.com))