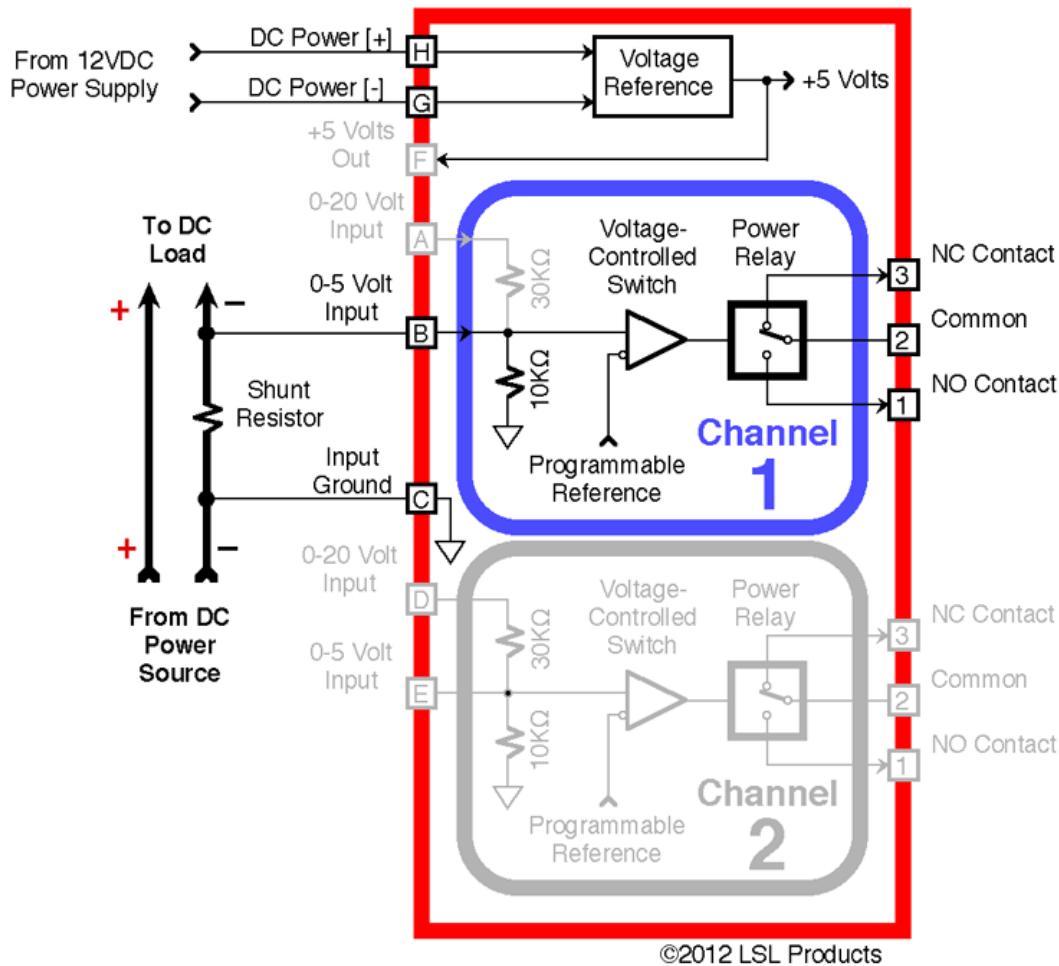


Pro-VCS™ Application Example:

# Low-Voltage DC Current Switch



This configuration measures the voltage developed across a "Shunt" resistor, which is proportional to the amount of current flowing through the resistor. When this 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.

Typical applications would be to automatically turn on one device whenever another device is turned on, or to disconnect a device that is drawing too much (or not enough) current. It is **NOT** recommended for use with high-voltage DC.

Note that the Shunt resistor must be located on the DC load's **NEGATIVE** connection. Also, there must be no voltage difference between **Input Ground** (Terminal C) and **DC Power [-]** (Terminal G).

Typically, the resistance value of the Shunt is chosen to produce no more than 50-100 mV of voltage when the DC load is drawing maximum current. This resistance doesn't have to be precise, since the **Pro-VCS™** unit only uses it to compare voltages, not to accurately measure and display them. Consequently, a suitable low-resistance shunt can often be made from simple materials.