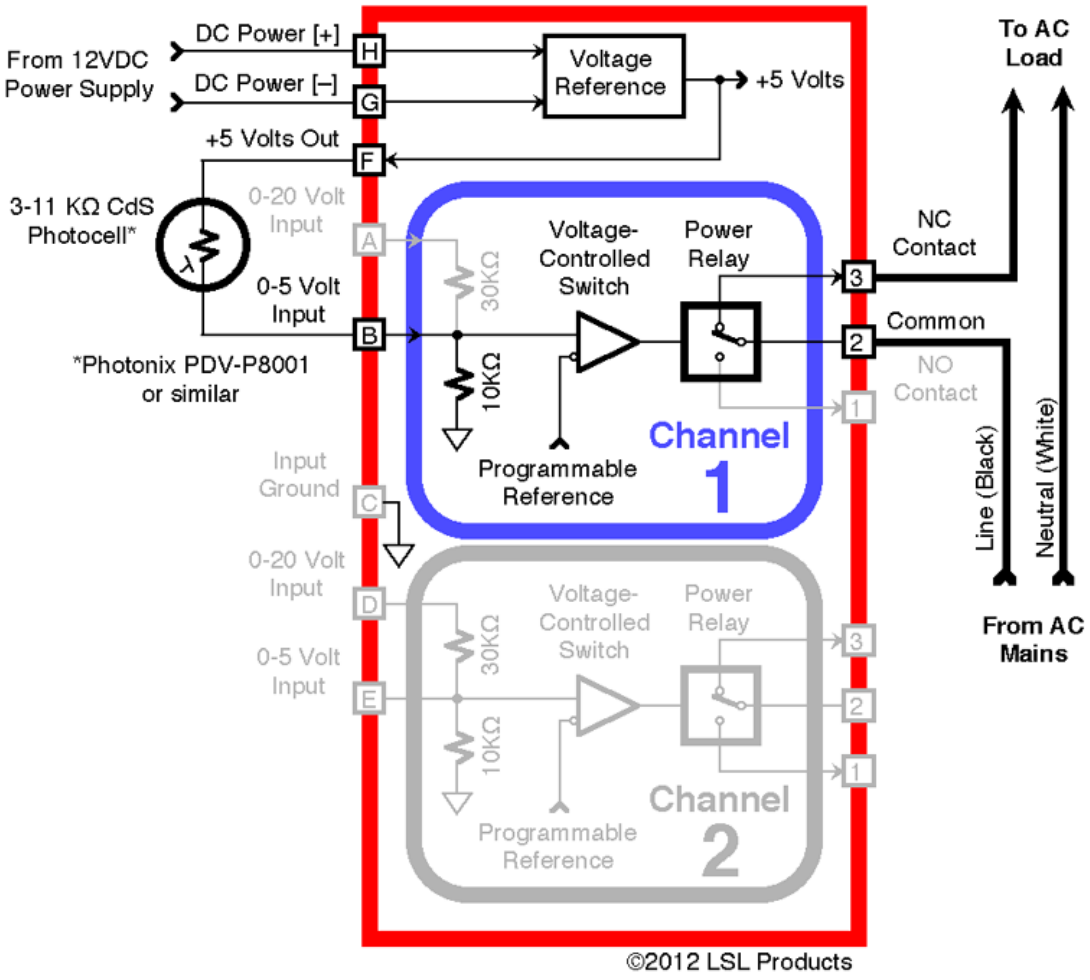
Pro-VCS™ Application Example:

Light-Controlled Switch ("Photoswitch")



This configuration uses a light-sensitive resistor (or "Photocell") that is connected to produce a voltage which is proportional to the amount of light shining on it. Essentially, the Photocell forms the upper part of a resistive divider circuit, and the 10K Ohm resistor which is built into the **Pro-VCS™** unit forms the lower part. As the Photocell is exposed to different amounts of light, its resistance will change, causing the voltage at the center of the divider to also change. We can program the **Pro-VCS™** to turn on or off at these different voltages, thereby allowing the unit to function as a photoswitch. Only one of **Pro-VCS**'s two channels is required to build this circuit.

The resistance of this particular photocell decreases when it is exposed to more light. Thus, the configuration shown will produce a higher voltage in brighter light (closing the **NO** relay contacts), or a lower voltage in dimmer light (closing the **NC** relay contacts instead).

A typical application would to turn on outdoor lights at night.

Source for the PDV-P8001 Photocell: MOUSER ELECTRONICS (www.mouser.com)