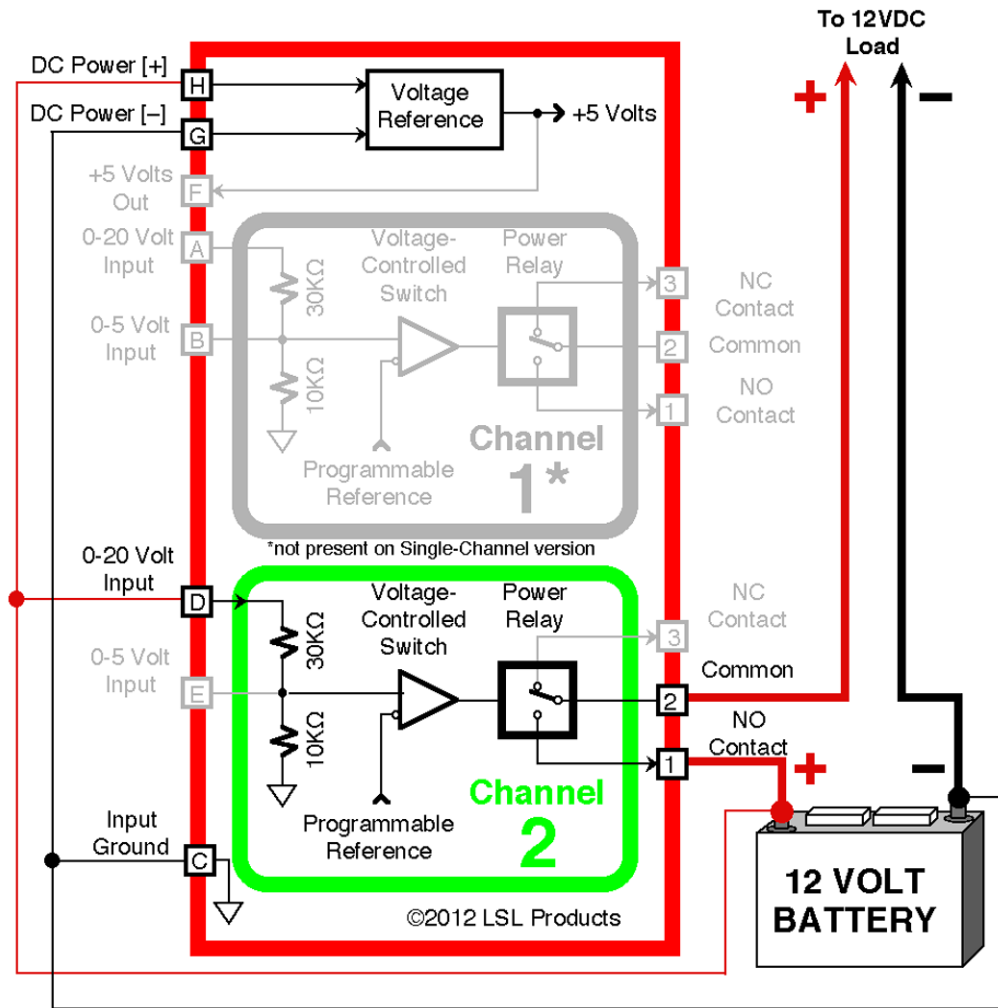


# Low/High Battery Voltage Disconnect



One of the most common applications, this circuit simply disconnects a load from its battery whenever the battery voltage drops below (or exceeds) a safe value. Only one channel is required to build this circuit.

Low Battery Voltage Disconnects are widely used to protect the battery from damage due to excessive discharge, and to keep the powered device from "crashing" or operating in an unpredictable manner due to excessively low battery voltage. A typical application would be to shut off a police radio in a patrol vehicle before the vehicle's battery was completely discharged.

High Battery Voltage Disconnects are commonly used to protect the load from damage due to excessive battery voltage. A typical application would be to protect sensitive electronic equipment that is connected to a battery charged by solar panels – If the solar panel charge controller malfunctioned and overcharged the batteries, this circuit would disconnect the sensitive loads before the battery voltage became high enough to damage them.

Note that with the Dual-Voltage version, if one channel is configured to protect a load against low voltage, the other channel can also be used to protect the same load from excessive voltage.