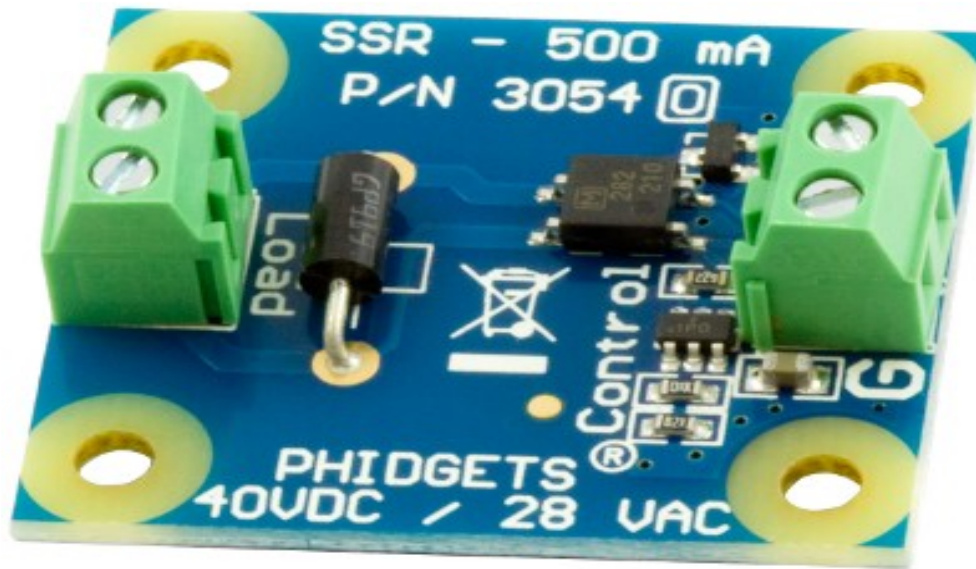**RB-Phi-216**
Phidgets SSR Relay Board 0.5A

Solid State Relays, or SSRs, are devices designed to operate like standard relays but without mechanical motion. By simply providing a small voltage to the control side of the circuit, you can open or close a higher powered circuit on the load side. The SSR Board is safe to use with sensitive control devices like microprocessors, and will not damage a Phidget device or your PC. Optoisolation between the control inputs and outputs of the SSR in the form of an LED paired with a set of optically-controlled MOSFETs provides protection from output to input. An on-board diode across the relay output protects the board from static electricity and surges from inductive loads.

Features
- Switches up to 0.5 Amps at up to 40 Volts DC, or 28 Volts AC
- Can be used to control small loads like LEDs, buzzers, and other electronics
- Isolates the control circuit from the load circuit
- Connects to any device with a Digital Output

Specifications
Electrical
- Relay Output Type: MOSFET
- Isolation Method: Photoelectric
- Dielectric Strength: 1.5 kV AC
- Control Voltage Min: 3 V DC
- Control Voltage Max: 30 V DC
- Control Current: 10 mA
- Load Voltage Max (DC): 40 V DC
- Load Voltage Max (AC): 28 V AC
- Load Current Max (AC): 500 mA
- Load Current Max (DC): 500 mA
- Turn-on Time Max: 5 ms
- Turn-off Time Max: 0.2 ms
- Contact Resistance Max: 850 mΩ

Physical

- Recommended Wire Size (Load): 16 - 26 AWG
- Recommended Wire Size (Control): 16 - 26 AWG
- Operating Temperature Min: -40 °C
- Operating Temperature Max: 85 °C