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.

Product Specifications

Board	
Controlled By	Digital Output (5V)
Electrical Properties	
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 mO©
Physical Properties	

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