Dual SSR Relay Board

Solid State Relays, or SSRs, are devices designed to operate like standard relays but without mechanical motion.

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 a GaAs LED paired with a set of optically-controlled MOSFETs provides protection from output to input. An on-board 47V bidirectional transorb across the relay output protects the board from static electricity and surges from inductive loads.

Product Specifications

Electrical Properties	
Relay Output Type	MOSFET
Isolation Method	Photoelectric
Dielectric Strength	5.3 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)	(per channel) 9 A
Load Current Max (DC)	(per channel) 9 A
Turn-on Time Max	1.9 ms
Turn-off Time Max	0.16 ms
Contact Resistance Max	50 mO©
Switching Speed Max	300 cps
Physical Properties	
Recommended Wire Size (Control)	16 – 26 AWG
Recommended Wire Size (Load)	12 – 24 AWG

Operating Temperature Min	-40 B°C
Operating Temperature Max	100 B°C