

PhidgetInterfaceKit 0/0/8



Note: The 1017_1B is identical to the 1017_1, except that you have the option of whether you want to include the USB cable.

The PhidgetInterfaceKit 0/0/8 provides small signal relays with 8 relay outputs, rated at a combination of 250VAC, or 2 Amps, up to a maximum of 60 Watts. While typical mechanical relay boards are unable to switch signals due to an oxide buildup on the contacts, the 1017 excels at switching both signals and low-power applications.

Please Note: These relays cannot be switched at maximum current and maximum voltage at the same time. Ensure that the total power of the load does not exceed the switching power of the relay. For example, you can switch these relays at 200V DC and 0.3 A (60W), or 30V DC and 2A (60W), but not 200V DC and 2A (400W).

Comes packaged with

- A Hardware mounting kit (4 nuts and bolts (M3), 4 plastic spacers)

Product Specifications

Board

| | |
|-------------------------|----------------|
| Controlled By | USB (Mini-USB) |
| API Object Name | DigitalOutput |
| Current Consumption Min | 14 mA |
| Current Consumption Max | 300 mA |
| USB Speed | Low Speed |

Physical Properties

| | |
|---------------------------|--------------|
| API Object Name | InterfaceKit |
| Switch Type | DPDT |
| Recommended Wire Size | 12 – 24 AWG |
| Switching Speed Max | 20 cpm |
| Operating Temperature Min | 0 B°C |
| Operating Temperature Max | 70 B°C |

Electrical Properties

| | |
|--------------------------------|------------|
| Dielectric Strength | 1.5 kV AC |
| Contact Resistance Max | 50 mΩ |
| Load Voltage Max (DC) | * 120 V DC |
| Load Voltage Max (AC) | 250 V AC |
| Load Current Min | 10 0jA |
| Load Current Max (DC) | 2 A |
| Load Current Max (AC) | 2 A |
| Turn-on Time Max | 18 ms |
| Turn-off Time Max | 18 ms |
| Switching Power Max (Real) | 60 W |
| Switching Power Max (Apparent) | 125 VA |
| Current Consumption Min | 14 mA |
| Current Consumption Max | 300 mA |

* This specification applies to the version of 1017_1 with black relays on it. If your 1017_1 has orange relays, the DC switching voltage is 200VDC.

Software Objects

| Channel Name | API | Channel |
|--------------|---------------|---------|
| Signal Relay | DigitalOutput | 0 – 7 |