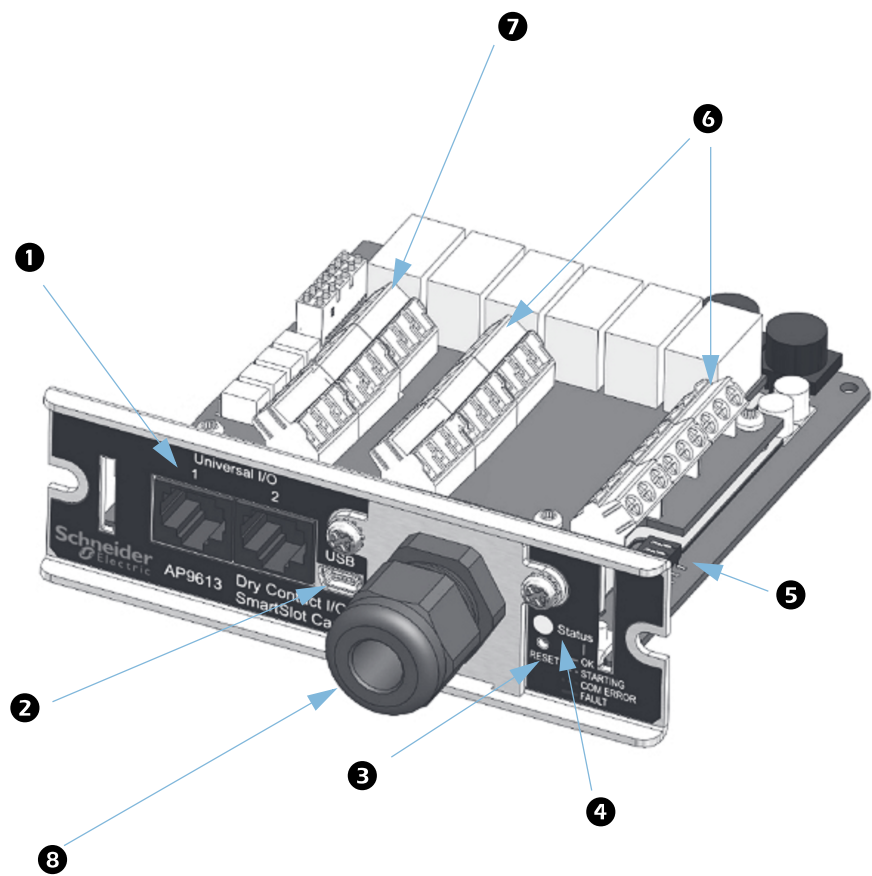


Showing the product detail

Itemizing the features of the Dry Contact I/O SmartSlot Card



Item	Name	Description
1	Universal I/O ports 1 and 2	These support the AP9335T/TH and AP9810 dry contact accessories
2	USB cable connector	Connecting this to your PC enables usage of the Configuration Utility.
3	Reset button	Use an appropriately sized, non-metallic tool to press the Reset button. There are two options: • Press and hold button [LED turns off], release <i>in less than 20 seconds</i> [Card reboots with NO factory settings reset]. • Press and hold button [LED turns off], <i>continue holding for 20 seconds</i> [LED turns red, card resets to factory settings and reboots].
4	LED Status Indicator	

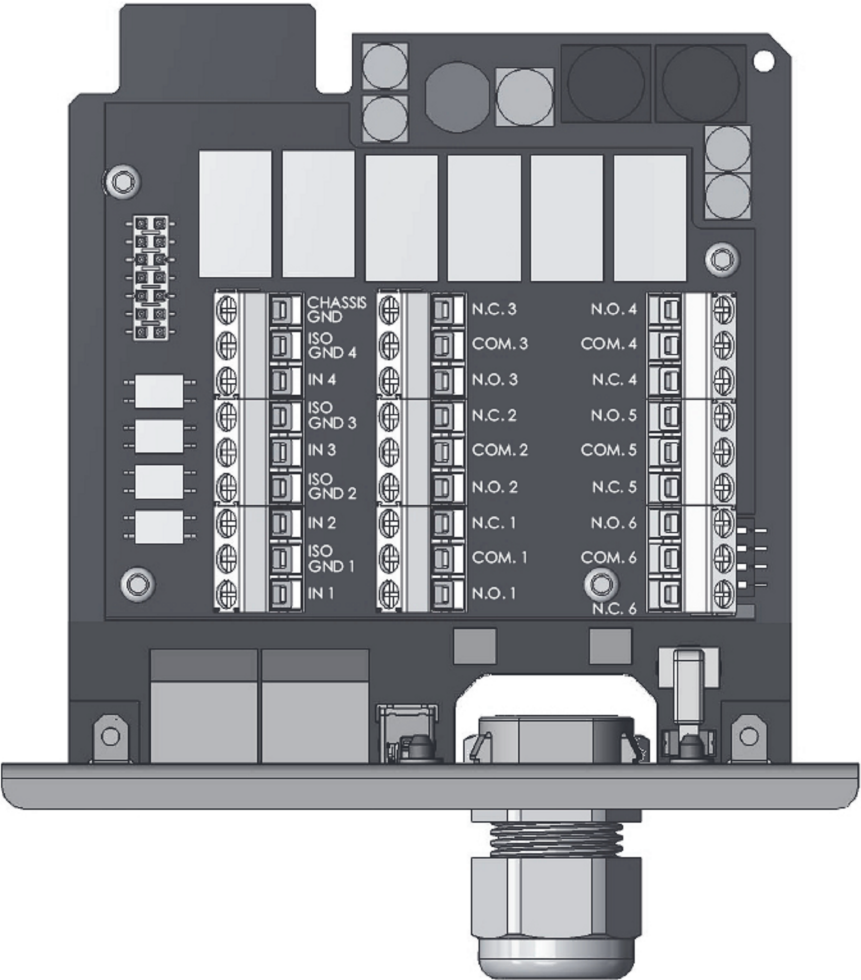
LED Status Indicator	State
Solid Green	Card communications and operations are normal
Flashing Green	Card is initializing
Flashing Red	Lost communication with UPS
	Lost communication with Universal I/O accessory
	Card hardware error
Rapidly Flashing Red	Invalid Configuration file on the Card
Solid Red	Non-operational fault with the UPS, not the Card: see KBase FA171541 on the APC website www.apc.com .

5	Dip switches	These are located near the back of the front panel on the right-hand side. See Configuring the Dip Switches.
6	Output relay terminals	Connections for alarm outputs. See Itemizing the input contact and output relay terminal blocks and “Ratings for input contacts and output relays” on page 28.

Item	Name	Description
7	Input contact terminals	Connections for control inputs. See Itemizing the input contact and output relay terminal blocks and “Ratings for input contacts and output relays” on page 28.
8	Cord grip	Supports the cabling that is used to control external devices, or to connect up external switches. The bare wires connect to the terminal blocks on the Card. The cord grip is plastic and can secure a single cord with a diameter range of 5.8 – 10mm. This limits the number of conductors (inside the cord) and the power ratings.

Itemizing the input contact and output relay terminal blocks

Number of positions on each terminal block	9
Tightening torque	0.35 N.m (3.097 lb.in)
Tightening torque max	0.4 N.m (3.54 lb.in)
Wire stripping length	5 mm (0.19 in)
Minimum wire gauge	0.14 mm ² (26 AWG)
Maximum wire gauge	2.5 mm ² (14 AWG)



Dry Contact I/O SmartSlot Card

Configuring the Dip Switches

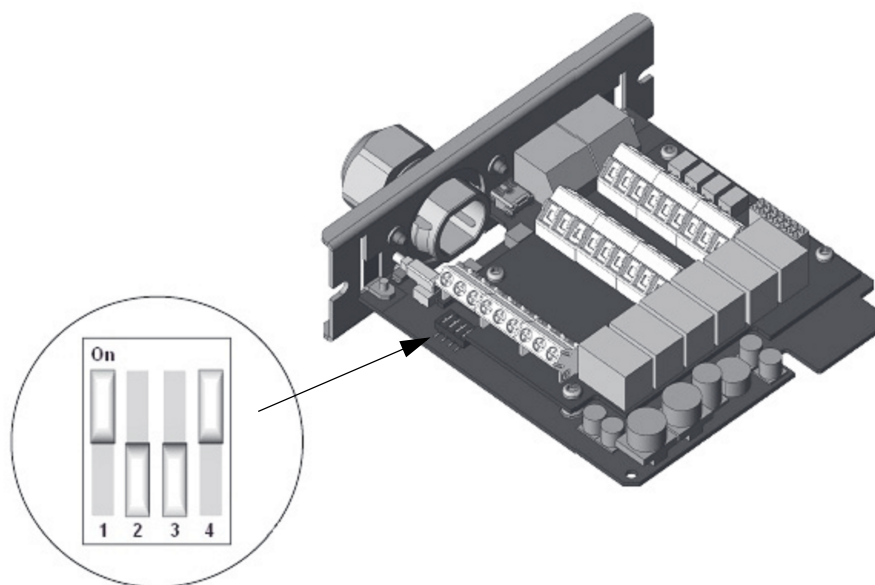
The Dry Contact I/O SmartSlot Card requires configuration before testing, final installation, and use.

See “Location of dip switches” below and “Dip switches: input and outputs” on page 9.

Location of dip switches

The “callout” below points to the location of the dip switches on the card, and shows one possible configuration: ON-OFF-OFF-ON.

See the other possible configurations at Dip switches: input and outputs



Dip switches: input and outputs

The table below lists the four possible configurations, with their corresponding inputs and outputs.

	Configuration 1	Configuration 2	Configuration 3	Configuration 4*
	On 1234 OFF-OFF-OFF-ON	On 1234 ON-OFF-OFF-ON	On 1234 OFF-ON-OFF-ON	On 1234 ON-ON-OFF-ON
Inputs	Device Actions			
1	Turn the UPS on.			See Configuration Utility
2	Turn the UPS off.		Turn off the UPS gracefully.	
3	Start UPS Self Test.			
4	Shut down the UPS when on battery except for Self Test or runtime calibration.	Put the UPS in bypass, if bypass is available on the UPS. If the UPS is in bypass, take the UPS out of bypass.	Shut down the UPS when on battery except for Self Test or runtime calibration.	
Outputs	Device State			
1	The UPS is on battery (e.g. during a power outage, Self Test, or runtime calibration).			See Configuration Utility
2	The UPS has a low battery.			
3	The protected load is not receiving power from the UPS or communication between the UPS and the Relay I/O Card has been lost.			
4	Replace the UPS battery.		UPS commanded to turn on (echo of Input 1).	
5	The UPS is overloaded.	The UPS is in bypass by selection from software, front panel, or rear panel.	UPS commanded to turn off gracefully (echo of Input 2).	
6	Any UPS fault or Self Test failure.	Any UPS fault, Self Test failure, or overload.	Any UPS fault, Self Test failure, overload, or replace battery.	

*In Configuration 4 the Configuration Utility is used to configure the device. This is the factory default.

Legacy Fault options

The Dry Contact I/O SmartSlot Card Configuration Utility provides legacy fault options to emulate the fault options of the legacy Relay I/O module (AP9610). See “Connecting to the Configuration Utility” on page 16.

In the Configuration Utility:

- Use the option “Fault Legacy” to emulate the AP9610 fault behavior for Output #6 in configurations 1–3. The table below describes the legacy fault behaviors that are emulated for Fault Legacy options 1, 2 and 3.

AP9613 Legacy Fault Conditions	Emulated AP9610 Output #6 behavior
Fault Legacy 1	Any UPS fault or self-test failure.
Fault Legacy 2	Any UPS fault, self-test failure or overload.
Fault Legacy 3	Any UPS fault, self-test failure, overload, or replace battery.

- Use the “Fault” option to manage fault behavior in SMT, SMX, SURTD, and SRT Smart-UPS devices.

These options can be used to manage faults in environments with both AP9610 and AP9613 cards present. For more information on Fault Definitions, see KBase article [FA171541](#) on the APC website www.apc.com.