

SCHEDARELAY3

Dry contact card



TECHNICAL SPECIFICATION

Dry contact card provide dry contacts for UPS external monitoring, and tell the UPS operation status.

Main Features and Functions

- **UPS Status Monitoring:** Provides real-time reporting on events such as "UPS in Battery Mode", "Load on Bypass" or "General Alarm".
- **Dry Contact:** It offers isolated electrical interfaces (normally open/closed) that do not require their own power supply, ideal for integration into industrial automation systems.

These cards are essential in industrial environments or data centers where the UPS must interact with remote monitoring systems that are not based on IP protocols.

Most mid-range/high-end UPSs have a slot for a "relay card" or "communication card" that provides dry contacts (normally open NO or closed NC).

The card can be inserted directly into the slot even while the UPS is running.

Connector Parameter:

Parameter		Max	Type
Diode	Reverse Voltage VR	5V	
	Forward Current	25mA	16mA
	Pulse Forward Current IFP	1A (100u pulse, 100pps)	
	Forward input voltage	30V	DC: 5V~12V
Relay contact	Voltage (DC)	5V~24V	
	Current	3A	
	Voltage (AC)	230V	
	Current	3A	

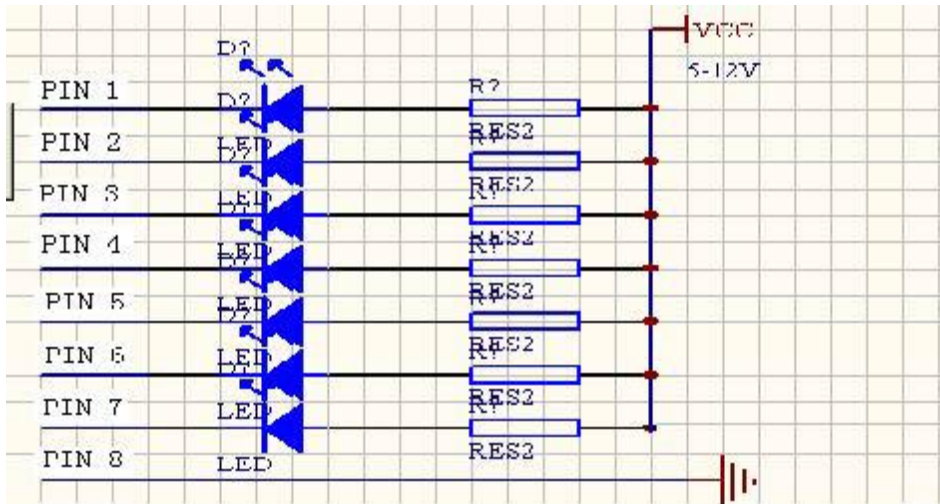
Connector definition

Pin No.	Description	Status		Input / Output
1	Mains fault	Relay1 ON	Pin1 & Pin8 ON	Output
2	Battery low	Relay2 ON	Pin1 & Pin8 OFF	Output
3			Pin3 & Pin8 ON	Output
4	Bypass output	Relay3 ON	Pin4 & Pin8 ON	Output
5	UPS fault	Relay4 ON	Pin5 & Pin8 ON	Output
6	INV. output	Relay5 ON	Pin6 & Pin8 ON	Output
7	Alarm	Relay6 ON	Pin7 & Pin8 ON	Output
8	COM			

Connector's pins instruction

Phenomenon	Description	Fault reason
Pin1 & Pin8 ON	Mains abnormal	Mains Frequency or Voltage abnormal
Pin2 & Pin8 OFF Pin3 & Pin8 ON	Battery low	Battery low
Pin4 & Pin8 ON	Bypass output	UPS output through bypass
Pin5 & Pin8 ON	UPS fault	Rectifier fault INV fault Over-temperature Short circuit
Pin6 & Pin8 ON	INV output	UPS inverter output
Pin7 & Pin8 ON	UPS alarm	Rectifier fault INV fault Over-temperature Short circuit

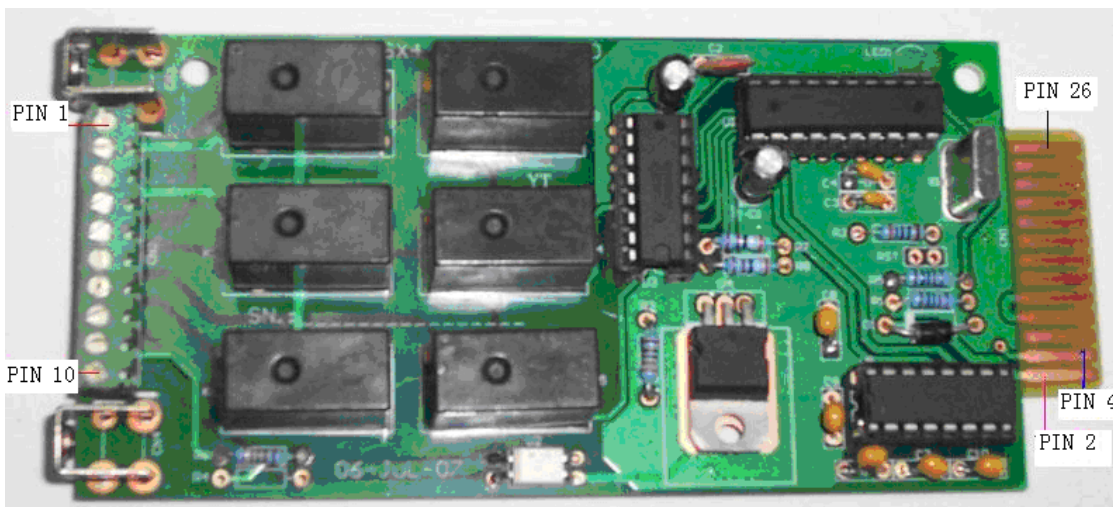
Connecting example:



Internal connector define

Totally 26 internal connectors, 4 are valid connectors, they are Pin 1,2,3,4 are shown in Pic.

- Pin1: (at the back of pin 2): Ground
- Pin2: 12V Power
- Pin3: (at the back of pin 4): Send
- Pin4: Receive



Application field

1. IBM server, PC machine, work station and other device application.
2. Industry device automatic control and communication application.
3. Dry contact card only provides interface (dry contact), users make application software themselves.

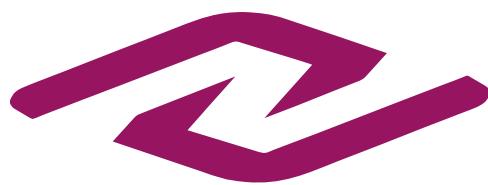
Installation

Open the cover plate of SNMP SLOT on the rear panel of UPS and Insert dry contact card directly along the gap of SNMP SLOT.

Insert dry contact card until the metal plate of terminal interface clings closely to surface of UPS rear panel. It indicates the card insertion is OK. Then use the screw lock and fasten the dry contact card.

Connect with monitoring device by connecting wire of dry contact card.

The monitoring device will display and control UPS operating status, to achieve remote monitoring of UPS operation.



Naicon

UNIT



Diloc



Elsist



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