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Owner's Manual

Programmable Relay I/O Card

Model: RELAYIOCARD



1. Introduction	2
1.1 Product Features	2
1.2 Package Contents	2
2. Installation and Setup	2
2.1 System Requirements	2
2.2 Communications Setup	2
2.3 Configuration	3
3. Specifications	4
4. Warranty & Warranty Registration	4
Español	5
Français	9

Use of this equipment in life support applications where failure of this equipment can reasonably be expected to cause the failure of the life support equipment or to significantly affect its safety or effectiveness is not recommended. Do not use this equipment in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide.



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1. Introduction

1.1 Product Features

The RELAYIOCARD is a programmable UPS management device featuring:

- 6 programmable relay output contacts
- Configurable normal open or normal close for each relay contact
- Configurable UPS shutdown delay time
- Configurable input signal to shutdown UPS or test battery

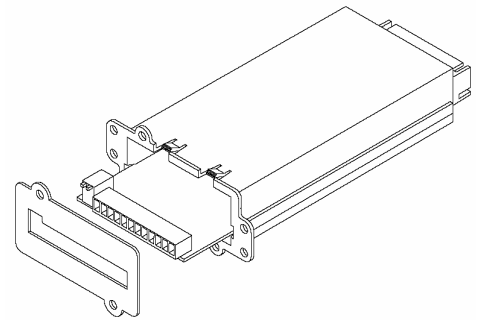
The RELAYIOCARD allows you to:

- Monitor UPS status and events
- Perform remote system shutdowns and battery tests

1.2 Package Contents

This Package Contains:

- RELAYIOCARD
- Configuration Cable
- Faceplates
- Owner's Manual



2. Installation and Setup

2.1 System Requirements

The RELAYIOCARD supports all Tripp Lite SmartOnline™ UPS Systems and select SmartPro™ UPS Systems, including SMART1050SLT, SMART1500SLT, SMART2200RMXL2U, SMX1050SLT, SMX1500SLT, SMART3000SLT, SMART2200SLT, SM2200RMNAFTA, SMART2600RM2U, SMART3000RM2U, SMART1500CRMXL, SMART1500SLTXL, SMART750XL_a, SMX3000XLRT2U and SMX2200XLRT2U. Supported systems must run a UPS protocol of 3008 or above.

To determine your UPS protocol:

1. Open Tripp Lite PowerAlert software.
2. Click on the “Misc” button on the main screen of the PowerAlert console.
3. View the protocol variable.

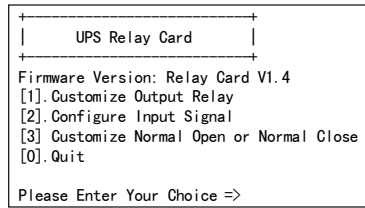
2.2 Communications Setup

1. Connect Tx to pin2, Rx to pin 3 and GND-C to pin5 of RS-232 DBP port.
2. In the Windows environment, launch the Hyper Terminal program, then open the specified COM port.
3. Set the following properties – Baud rate: 2400, Data Bits: 8, Parity: None, Stop Bit: 1, Flow Control: None.

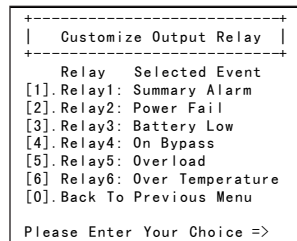
2. Installation and Setup *(continued)*

2.3 Configuration

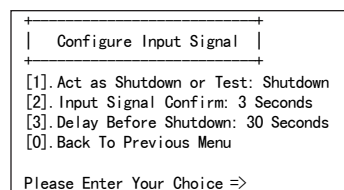
1. Press **Enter** to open the main menu of the RELAYIOCARD.
Press **1** to configure the alarm event for R1~R6.



2. Note: Contacts R1~R6 can be configured for different power events.

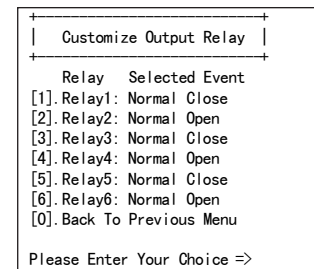


3. Press **2** to configure the input signal.



In this menu, the input signal can be redefined as a shutdown UPS signal or battery test signal. The UPS shutdown delay time can be adjusted to a maximum of 9999 seconds.

4. Press **3** to configure the normal open or normal close for each relay.

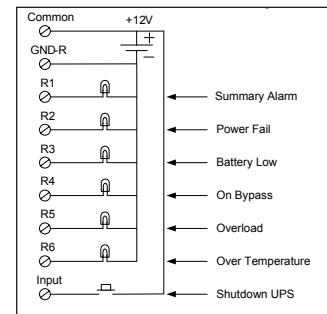


Once the configuration is complete, SW2 must be switched ON to apply the new settings. To automatically reset to default settings, switch SW2 to the OFF position.

5. Press **0** to quit the configuration session. When the system prompts you to save your settings, press **Y** to save or **N** to ignore.

Application Example

Using the default settings, set SW1 and SW2 to OFF. Apply 12V DC to Common contact and connect the lamps to R1~R6 terminals. Install a push button from the Common contact to the input terminal. Press the button for at least 3 seconds to shut down the UPS remotely.



3. Specifications

Technical Specifications

Size	130 x 60 mm
Weight	200g
Operating Temperature	0 ~ 40° C
Operating Humidity	10 ~ 80%
Power Input	8~20V DC
Power Consumption	1.2 Watts

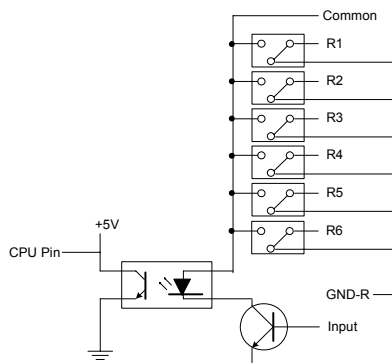
Output Contact Rating

	Maximum	
	DC Voltage	DC Current
Input	24V	1A

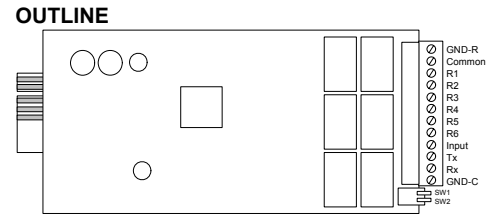
Input Rating

	Maximum	
	DC Voltage	DC Current
Input	24V	10mA

Internal Circuit



Outline



I/O Pinout

GND-R: Ground for relays		
Common: 12~24V DC		
Default Alarm Event		
R1	Summary Alarm	
R2	Power Fail	
R3	Battery Low	
R4	On Bypass	
R5	Overload	
R6	Over Temperature	
Input: Remote shutdown or battery test		
Tx: Transmit to PC, connect to DB9-pin2		
Rx: Receive from PC, connect to DB9-pin3		
GND-C: Ground for configuration Tx and Rx pins		
	OFF (default)	ON
SW1	Normal open for default settings	Normal close for default settings
SW2	Default settings	Customized settings

5. Warranty & Warranty Registration

LIMITED WARRANTY

Seller warrants this product, if used in accordance with all applicable instructions, to be free from original defects in materials and workmanship for a period of 2 years (except internal UPS system batteries outside USA and Canada, 1 year) from the date of initial purchase. If the product should prove defective in material or workmanship within that period, Seller will repair or replace the product, in its sole discretion. Service under this Warranty can only be obtained by your delivering or shipping the product (with all shipping or delivery charges prepaid) to: Tripp Lite, 1111 W. 35th Street, Chicago, IL 60609, USA. Seller will pay return shipping charges. Call Tripp Lite Customer Service at (773) 869-1234 before sending any equipment back for repair.

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WARNING: The individual user should take care to determine prior to use whether this device is suitable, adequate or safe for the use intended. Since individual applications are subject to great variation, the manufacturer makes no representation or warranty as to the suitability or fitness of these devices for any specific application.

Not compatible with PoE (Power over Ethernet) applications.

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* No purchase necessary. Void where prohibited. Some restrictions apply. See website for details.

Regulatory Compliance Identification Numbers

For the purpose of regulatory compliance certifications and identification, your Tripp Lite product has been assigned a unique series number. The series number can be found on the product nameplate label, along with all required approval markings and information. When requesting compliance information for this product, always refer to the series number. The series number should not be confused with the marking name or model number of the product.

Made in China.

Tripp Lite has a policy of continuous improvement. Product specifications are subject to change without notice.

Manual del Propietario

Tarjeta de E/S de Relé Programable

Modelo: RELAYIOCARD



1. Introducción	6
1.1 Características del Producto	6
1.2 Contenidos del Embalaje	6
2. Instalación y Configuración	6
2.1 Requisitos del Sistema	6
2.2 Configuración de Comunicaciones	6
2.3 Configuración	7
3. Especificaciones	8
English	1
Francés	9

No se recomienda el uso de este equipo en aplicaciones de auxilio vital donde puede esperarse razonablemente que la falla de este equipo provoque una falla del equipo de soporte vital o afecte significativamente su seguridad o eficacia. No utilice este equipo en presencia de una mezcla anestésica inflamable con aire, oxígeno, u óxido nitroso.



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1. Introducción

1.1 Características del Producto

RELAYIOCARD es un dispositivo de administración de UPS programable que cuenta con:

- 6 contactos de salida de relé programable
- Abertura normal o cierre normal configurables para cada cierre de relé
- Tiempo de retardo de apagado configurable del UPS
- Señal de entrada configurable para apagar el UPS o probar la batería

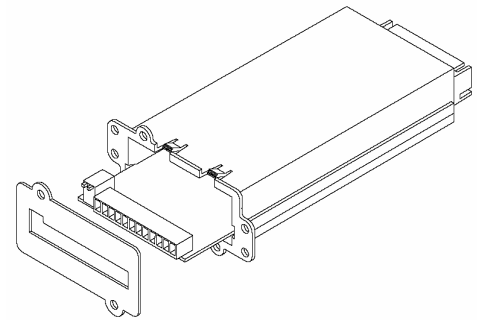
La RELAYIOCARD le permite:

- Monitorear el estado y los eventos del UPS
- Realizar apagados del sistema y pruebas de la batería de manera remota

1.2 Contenidos del Embalaje

Este Embalaje Contiene:

- RELAYIOCARD
- Cable de configuración
- Placas frontales
- Manual del propietario



2. Instalación y Configuración

2.1 Requisitos del Sistema

La RELAYIOCARD admite todos los sistemas UPS SmartOnline™ y sistemas UPS SmartPro™ selectos de Tripp Lite, que incluyen SMART1050SLT, SMART1500SLT, SMART2200RMXL2U, SMX1050SLT, SMX1500SLT, SMART3000SLT, SMART2200SLT, SM2200RMNAFTA, SMART2600RM2U, SMART3000RM2U, SMART1500CRMXL, SMART1500SLTXL, SMART750XL, SMX3000XLRT2U y SMX2200XLRT2U. Los sistemas admitidos ejecutarán un protocolo de UPS de 3008 o superior.

Para determinar su protocolo UPS:

1. Abra el software PowerAlert de Tripp Lite.
2. Haga clic en el botón “Misc” (Misceláneo) en la pantalla principal de la consola de PowerAlert.
3. Vea la variable del protocolo.

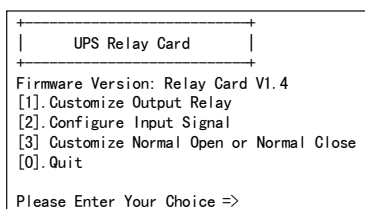
2.2 Configuración de Comunicaciones

1. Conecte Tx a pin2, Rx a pin 3 y GND-C a pin5 del puerto de RS-232 DBP.
2. En el entorno de Windows, abra el programa Hyper Terminal, luego abra el puerto COM especificado.
3. Ajuste las siguientes propiedades– velocidad en baudios: 2400, Bits de datos: 8, Paridad: Ninguna, Bit de parada: 1, Control de flujo: Ninguno.

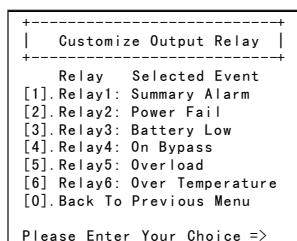
2. Instalación y Configuración *(continuación)*

2.3 Configuración

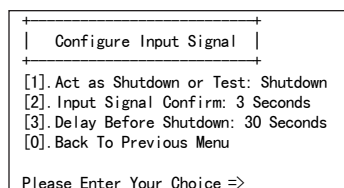
1. **Presione Enter(Intro)** para abrir el menú principal de la RELAYIOCARD.
Presione 1 para configurar el evento de alarmas para R1~R6.



2. Nota: Los contactos R1~R6 pueden configurarse para distintos eventos de energía.

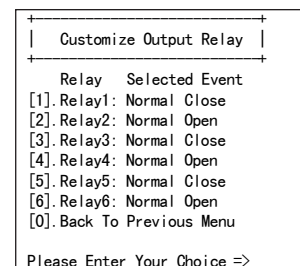


3. **Presione 2** para configurar la señal de entrada.



En este menú, la señal de entrada puede redefinirse como señal de apagado del UPS o señal de prueba de la batería. El tiempo de retardo de apagado del UPS puede ajustarse a un máximo de 9999 segundos.

4. **Presione 3** para configurar la abertura normal o el cierre normal para cada relé.

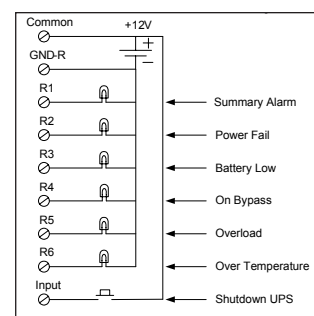


Una vez que la configuración está lista, debe ENCENDERSE SW2 para aplicar las nuevas configuraciones. Para restablecer automáticamente los ajustes predeterminados, coloque SW2 en la posición OFF (Apagado).

5. **Presione 0** para omitir la sesión de configuración. Cuando el sistema le pida guardar sus configuraciones, presione **Y** (Sí) para guardarlas o **N** (No) para ignorarlas.

Ejemplo de Aplicaciones

Usando las configuraciones predeterminadas, ajuste SW1 y SW2 en OFF. Aplique 12V CC para contacto común y conecte las lámparas a los terminales R1~R6. Instale un botón interruptor desde el contacto común hasta el terminal de entrada. Presione el botón durante al menos 3 segundos para apagar el UPS vía remota.



3. Especificaciones

Especificaciones Técnicas

Tamaño	130 x 60 mm
Peso	200g
Temperatura de Operación	0 ~ 40° C
Humedad de Operación	10 ~ 80%
Entrada de Energía	8~20V CC
Consumo de Energía	1.2 Watts

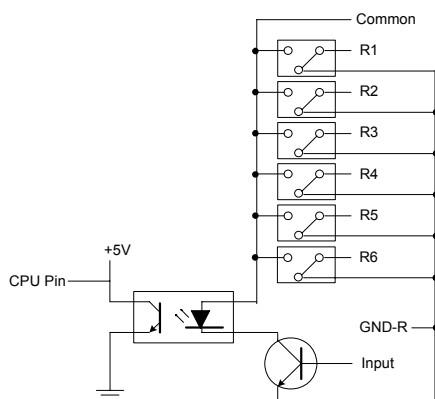
Valor Nominal del Contacto de Salida

	Máximo	
	Voltaje de CC	Corriente de CC
Entrada	24V	1A

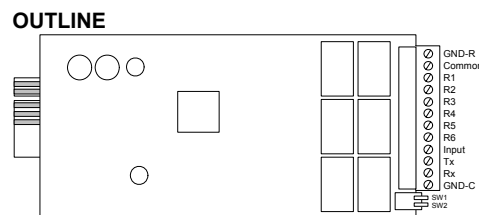
Valor Nominal de Entrada

	Máximo	
	Voltaje de CC	Corriente de CC
Entrada	24V	10mA

Circuito Interno



Esquema



Configuración de Clavijas de E/S

GND-R: Tierra para relés

Común: 12~24V CC

Evento de Alarma Predeterminado

R1	Alarma de Resumen
R2	Falla del Suministro Eléctrico
R3	Batería Baja
R4	En Rodeo (Bypass)
R5	Sobrecarga
R6	Sobretemperatura

Entrada: Apagado o prueba de la batería remotos

Tx: Transmisión a PC, conexión a DB9-pin2

Rx: Recepción de PC, conexión a DB9-pin3

GND-C: Tierra para configuración de clavijas Tx y Rx

	OFF (APAGADO) (predeterminado)	ON (ENCENDIDO)
SW1	Abertura normal para configuraciones predeterminadas	Cierre normal para configuraciones predeterminadas
SW2	Configuraciones predeterminadas	Configuraciones personalizadas

Manuel du propriétaire

Carte de relais I/O programmable

Modèles: RELAYIOCARD



1. Introduction	10
1.1 Définition produit	10
1.2 Contenu de l'emballage	10
2. Installation et configuration	10
2.1 Configuration requise	10
2.2 Configuration des communications	10
2.3 Configuration	11
3. Spécifications	12
English	1
Español	5

L'utilisation de cet appareil dans des applications de maintien des fonctions vitales, où son dysfonctionnement pourrait causer l'arrêt d'équipements de réanimation ou affecter de manière importante leur utilisation sûre ou leur efficacité, n'est pas recommandée. N'utilisez pas cet appareil en présence de gaz anesthésiques inflammables mélangés à de l'air, de l'oxygène ou de l'oxyde de diazote.



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1. Introduction

1.1 Définition produit

Le dispositif RELAYIOCARD est un système de gestion UPS programmable comportant:

- 6 contacts de relais de sortie programmables
- Ouverture normale et fermeture normale configurables pour chaque contact de relais
- Temporisation d'arrêt UPS configurable
- Signal d'entrée configurable pour l'arrêt UPS ou le test de batterie

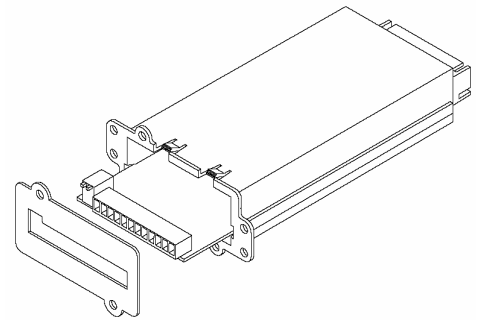
Le dispositif RELAYIOCARD vous permet de:

- Surveiller le statut et les événements UPS
- Effectuer des arrêts de système et des tests de batterie à distance

1.2 Contenu de l'emballage

Cet emballage contient:

- RELAYIOCARD
- Câble de configuration
- Plaques frontales
- Manuel du propriétaire



2. Installation et configuration

2.1 Configuration requise

Le dispositif RELAYIOCARD est homologué pour tous les systèmes UPS Tripp Lite SmartOnline™ et quelques systèmes UPS SmartPro™ tels que SMART1050SLT, SMART1500SLT, SMART2200RMXL2U, SMX1050SLT, SMX1500SLT, SMART3000SLT, SMART2200SLT, SM2200RMNAFTA, SMART2600RM2U, SMART3000RM2U, SMART1500CRMXL, SMART1500SLTXL, SMART750XL, SMX3000XLRT2U et SMX2200XLRT2U. Les systèmes compatibles doivent avoir un protocole UPS 3008 ou plus.

Pour déterminer votre protocole UPS:

1. Ouvrez le logiciel PowerAlert de Tripp Lite.
2. Cliquez sur le bouton « Misc » dans le menu principal de la console PowerAlert.
3. Visualisez la variable du protocole.

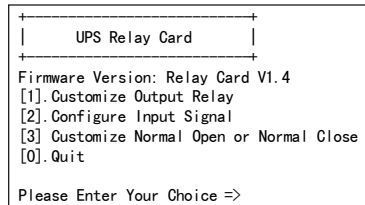
2.2 Configuration des communications

1. Connectez Tx à pin 2, Rx à pin 3 et GND-C à pin 5 du port RS232 de votre PC.
2. Dans l'environnement Windows, lancez le programme Hyper Terminal, puis ouvrez le port COM spécifié..
3. Réglez les propriétés suivantes – Baud rate (vitesse de transmission): 2400, Bit de données: 8, Parité: Aucun, Bit d'arrêt: 1, Flow Control: Aucun.

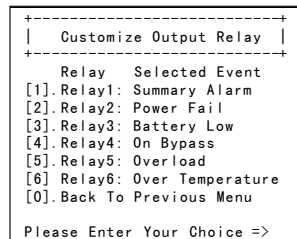
2. Installation et configuration *(continued)*

2.3 Configuration

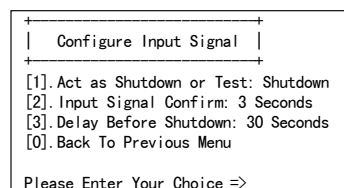
1. Appuyez sur **Enter** pour ouvrir le menu principal de RELAYIOCARD. Appuyez sur **1** pour configurer l'événement alarme pour R1~R6.



2. Remarque Les contacts R1~R6 peuvent être configurés pour des événements de puissance variés.

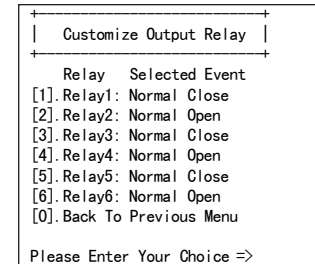


3. Appuyez sur **2** pour configurer le signal d'entrée.



Dans ce menu, le signal d'entrée peut être redéfini en tant que signal d'arrêt UPS ou un signal de test de batterie. La temporisation de l'arrêt UPS peut être réglée pour un maximum de 9999 secondes.

4. Appuyez sur **3** pour configurer l'ouverture normale ou la fermeture normale pour chaque relais.

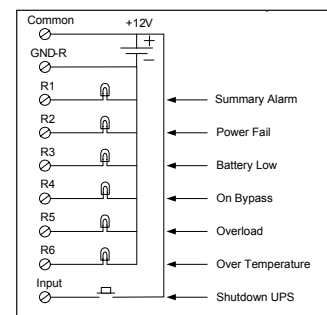


Once the configuration is complete, SW2 doit être mis dans la position ON (allumé) pour appliquer les nouveaux paramètres. Pour retourner aux paramètres par défaut automatiquement, mettez SW2 dans la position OFF (éteint).

5. Appuyez sur **0** pour quitter la session de configuration. Lorsque le système vous demande de sauvegarder vos paramètres, appuyez sur **Y** pour sauvegarder ou sur **N** pour ignorer.

Exemple d'application

En utilisant les paramètres par défaut, mettez SW1 et SW2 dans la position OFF. Appliquez 12 VCC au contact commun et connectez les voyants lumineux aux terminaux R1~R6. Installez un bouton poussoir du contact commun sur le terminal d'entrée. Appuyez sur le bouton pour au moins 3 secondes pour arrêter le UPS à distance.



3. Spécifications

Spécifications techniques

Taille	130 x 60 mm
Poids	200g
Température de fonctionnement	0 ~ 40° C
Humidité de fonctionnement	10 ~ 80%
Puissance d'alimentation	8~20VCC
Puissance absorbée	1,2 Watts

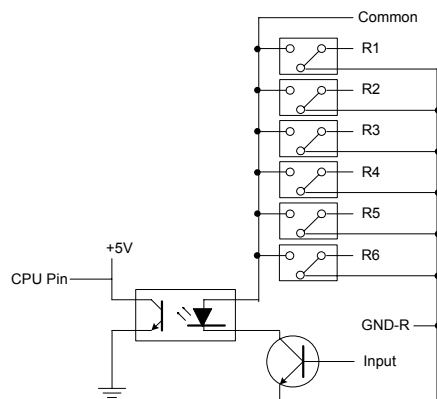
Intensité nominale de sortie

	Maximum	
	Tension continue	Courant continue
Entrée	24V	1A

Intensité nominale d'entrée

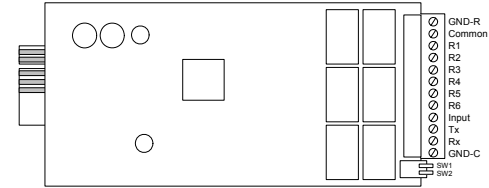
	Maximum	
	Tension continue	Courant continue
Entrée	24V	10mA

Circuit interne



Schéma

OUTLINE



Pinout I/O

GND-R: Mise à la terre pour relais

Commun: 12~24VCC

Événement alarme par défaut

R1	Alarme de synthèse
R2	Coupure de courant
R3	Batterie faible
R4	Sur dérivation
R5	Surcharge
R6	Surtempérature

Entrée: Arrêt ou test de batterie à distance

Tx: Transmission vers PC, connexion au DB9-pin2

Rx: Réception à partir de PC, connexion au DB9-pin3

GND-C: Mise à la terre pour configuration des pins

Tx et Rx

	OFF (défaut)	ON
SW1	Ouverture normale pour paramètres par défaut	Fermeture normale pour paramètres par défaut
SW2	Paramètres par défaut	Paramètres personnalisés



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