



**SOLA/  
HEVI-DUTY**

## **Intellislot™ Interface for Relay Contacts**

**Communications Card**

**USER MANUAL**  
English



Upon accepting shipment, please inspect product for any damaged or missing parts. If damaged, call Sola/Hevi-Duty at (800-377-4384) and select the Warranty Support option from the menu. If components are missing, contact your sales representative for replacement. Items included with shipment are:

- Intellislot™ Interface for Relay Contacts card protected by an anti-static bag.
- User's Manual: Intellislot™ Interface for Relay Contacts

## INTRODUCTION

The Intellislot™ Interface for Relay Contacts card provides contact closures for remote monitoring of alarm conditions in your Sola/Hevi-Duty UPS. Delivering On Battery, On Bypass, Low Battery, Summary Alarm, UPS Fault and On UPS signals, the easy-to-install card integrates with AS/400 computers (additional cable required) and other relay contact monitoring systems.

This advanced power-management device is specially designed to function only in the Intellislot port of the following supported UPS units:

- Sola 3000 UPS
- Sola 4000 UPS
- S4K Industrial UPS
- S5K Modular UPS

In addition, the RS-232 port on the UPS remains active with the card installed, allowing more sophisticated monitoring with MultiLink software. The inverter shut-off command can be controlled from the computer directly connected to the UPS (via the factory-installed DB-9 connector) and will conserve battery power after the workstation shutdown is completed.

The Intellislot™ Interface for Relay Contacts card is rated for 24 VAC/DC at 1A.

## INSTALLATION

### Parts required:

Intellislot™ Interface for Relay Contacts card and required cable assembly.

### Tools required:

Either #2 (medium) Phillips or small flat head screw driver.

1. It is suggested, but not necessary, to turn the UPS off prior to installation. Locate the Intellislot™ Port on the rear panel of your UPS. (Location and orientation can vary according to specific UPS model).
2. Remove the two retaining screws of the Intellislot™ Port cover plate on the UPS back panel. **Save the screws for re-assembly (Step 4).**
3. The card and slot are keyed to insert in one position only. Initially, the card should slide in freely as you carefully align screw holes. As you feel it click into place, press firmly to ensure solid seating in the slot.
4. Using the screwdriver, secure the card to the UPS chassis with the two retaining screws. Make sure the screws are snug, not tight, to avoid damage to the device.



*Location of Intellislot Port*



*Card and Slot Orientation*

## PIN CONFIGURATION

Pin	Function	Operation
1	UPS Fault	Closed if no UPS failure*
2	Not Used	
3	Not Used	
4	UPS Fault	Closed if UPS fails*
5	Summary Alarm**	Closed if SUMMARY ALARM** occurs*
6	Summary Alarm**	Closed if no alarm conditions are present*
7	Signal Ground (for UPS Any Mode Shutdown)	
8	Not Used	
9	Common – Low Battery	
10	Low Battery	Closed if battery is OK
11	Low Battery	Closed if LOW BATTERY point occurs.
12	Not Used	
13	Not Used	
14	UPS Any Mode Shutdown (short to pin 7)	Turn UPS output OFF when connected to pin 7*.
15	On UPS	Closed if ON UPS (inverter) power*
16	On Battery	Closed if ON BATTERY power (Utility failure)
17	Common – UPS Fault, Summary Alarm, On UPS, On Battery, On Bypass	
18	On Battery	Closed if not ON Battery power (Utility OK)
19	Not Used	
20	Not Used	
21	Not Used	
22	Not Used	
23	Not Used	
24	On Bypass	Closed if ON BYPASS*
25	Not Used	

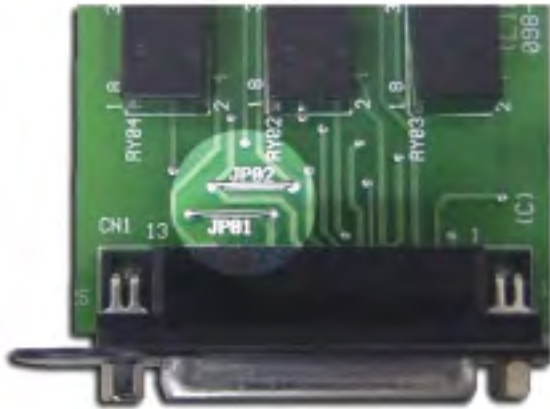
### *Relay Contact Card Pin Configuration*

\*Feature not available on PSI products

- \*\*A *Summary Alarm* occurs when any of the following four conditions exist:
1. Utility power is out of the acceptable range (voltage and/or frequency).
  2. UPS is in BYPASS MODE (load not on Inverter power).
  3. UPS Battery is LOW (<2 minutes of battery power remaining).
  4. UPS fault has occurred.

## JUMPER SET-UP

#	Connection	Description
JP01	Pin 9 to Pin 17	Allows all relay COMMONS to be tied together
JP02	Pin 7 to Pin 17	Allows all relay COMMONS and the ANY MODE SHUTDOWN GROUND to be tied together. <b>NOTE:</b> This jumper should be removed if there is any external voltage source that may intentionally or inadvertently be connected to the DB25S.



## CONTACTING TECHNICAL SUPPORT

The Sola/Hevi-Duty has a team of specially trained technicians waiting to quickly assist you with any installation or troubleshooting problems. Refer to the back of this manual for the Tech Support phone number.

In order to successfully diagnose your individual problem, our technicians may require the following installation site and system information. Please have it available when you call.

### INSTALLATION SITE

<b>Company Name:</b>	<input type="text"/>		
<b>Street Address:</b>	<input type="text"/>		
<b>City:</b>	<input type="text"/>		
<b>State/ Principality:</b>	<input type="text"/>	<b>Zip/Postal Code:</b>	<input type="text"/>
<b>Country:</b>	<input type="text"/>		

### INSTALLATION SITE CONTACT

<b>Name of Contact:</b>	<input type="text"/>
<b>Phone Number:</b>	<input type="text"/>
<b>Fax Number:</b>	<input type="text"/>
<b>E-Mail Address:</b>	<input type="text"/>
<b>Fax Number:</b>	<input type="text"/>

## **LIMITED WARRANTY**

Sola/Hevi-Duty extends the following LIMITED WARRANTY to the purchaser and to its customer (collectively referred to as the "Purchaser"): the enclosed Uninterruptible Power System (UPS) and components are free from defects in materials and workmanship under normal use, service, and maintenance FOR A PERIOD OF ONE YEAR FROM THE DATE OF ORIGINAL PURCHASE from Sola /Hevi-Duty or the Sola Hevi-Duty dealer or retailer. THE FOREGOING WARRANTY IS THE ONLY WARRANTY GIVEN AND NO OTHER WARRANTY IS PROVIDED, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Certain aspects of disclaimers are not applicable to consumer products acquired by individuals and used for personal, family, or household purposes (as distinguished from industrial or other purposes). Local laws may not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary according to local law.

Certain repairs or services are the responsibility of the Purchaser and the Purchaser is expected to pay for them. This warranty does not extend either to products with removed or altered serial numbers or to any losses or damages due to act of God or source external to the product, misuse, accident, abuse, neglect, negligence, unauthorized modification, alteration, or repair, use beyond rated capacity, or improper installation, maintenance, application or use, including, without limitation, use in a manner contrary to the accompanying instructions or applicable codes. **WARNING:** Warranty is void if the battery is allowed to discharge below the minimum battery cutoff point. To prevent such discharge DO NOT leave the unit power switch "ON" for more than two (2) days without AC power being supplied to the UPS. The battery must be recharged every four (4) to six (6) months when not in use.

If the UPS fails to conform with the above warranty within the one year warranty period, Sola / Hevi-Duty will repair or replace the UPS, at Sola /Hevi-Duty's option. Repairs or replacements are warranted for the remainder of the original warranty period. Purchaser, to make a warranty claim, should call 1-800-377-4384 to obtain a Returned Goods Authorization number and shipping instructions. Return transportation costs to Sola / Hevi-Duty are the responsibility of the Purchaser.

### **"LIFE SUPPORT" POLICY**

This product is not recommended, and the Company will not knowingly sell this product, for use with life support and other designated "critical" devices. ANY SUCH USE BY A USER AUTOMATICALLY VOIDS AND DISCLAIMS ANY AND ALL WARRANTIES, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY, IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND EXPRESS WARRANTIES THAT THIS PRODUCT WILL CONFORM TO ANY AFFIRMATION OR PROMISE, FOR THIS PRODUCT AND THE USER AGREES THAT IN NO EVENT SHALL THE COMPANY BE LIABLE FOR CONSEQUENTIAL OR INDIRECT DAMAGES.