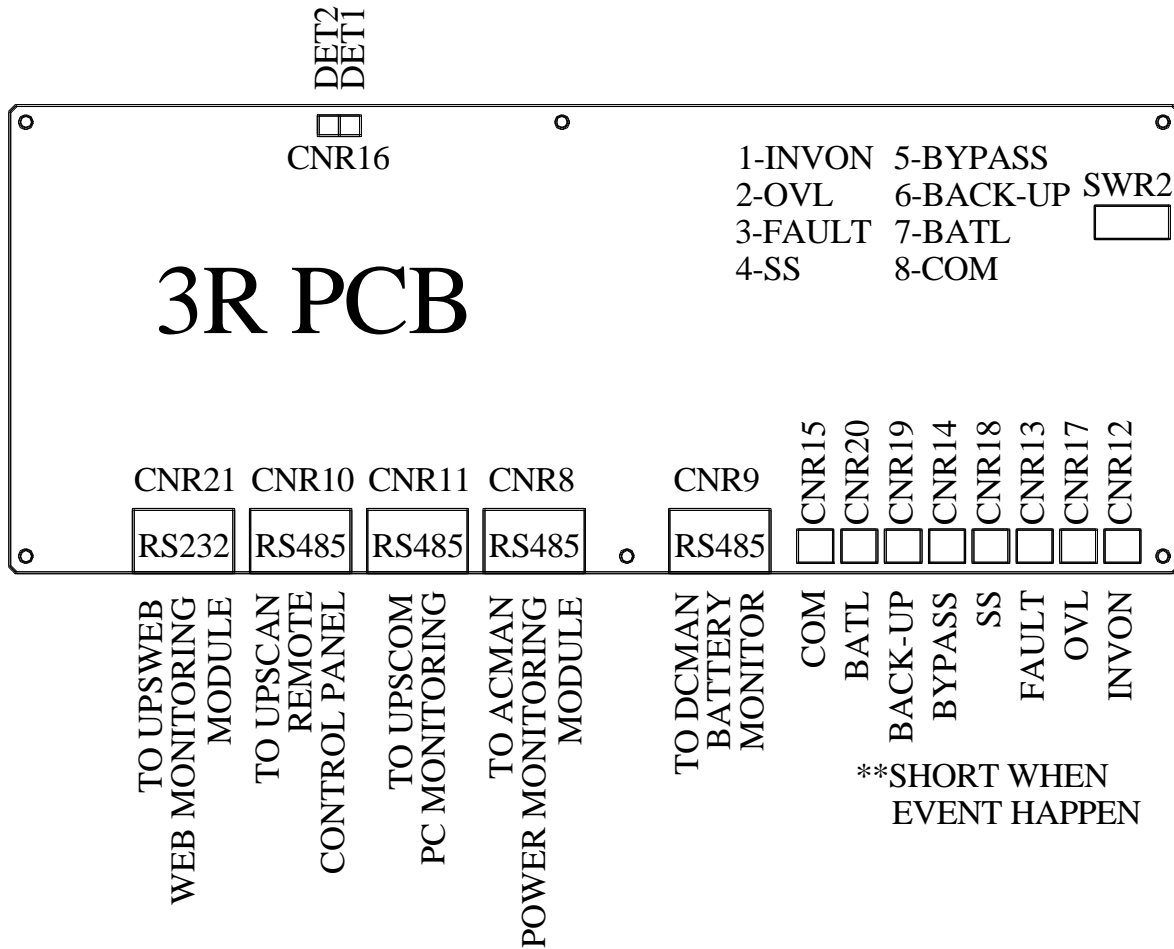




6. INTERFACE CONNECTIONS

All interfaces are connected from PCB 3R, see the figure as below.

6.1 Dry Contacts



8 terminals of dry contact are provided. These terminals are normal open, when event happens the terminal will conduct. Maximum contact rating is 16A/250VAC(16A/30VDC). They are:

INVON – Short whenever inverter is on, open when inverter is off.

OVL – Short whenever UPS is overloaded.



FAULT – Short when UPS encounter fault condition such as high dc shutdown, short circuit, fuse/over-heat, overload shutdown, emergent stop, inverter abnormal, bypass on shutdown, and is latched until manual reset (off switch) or 30 sec. after fault condition removal.

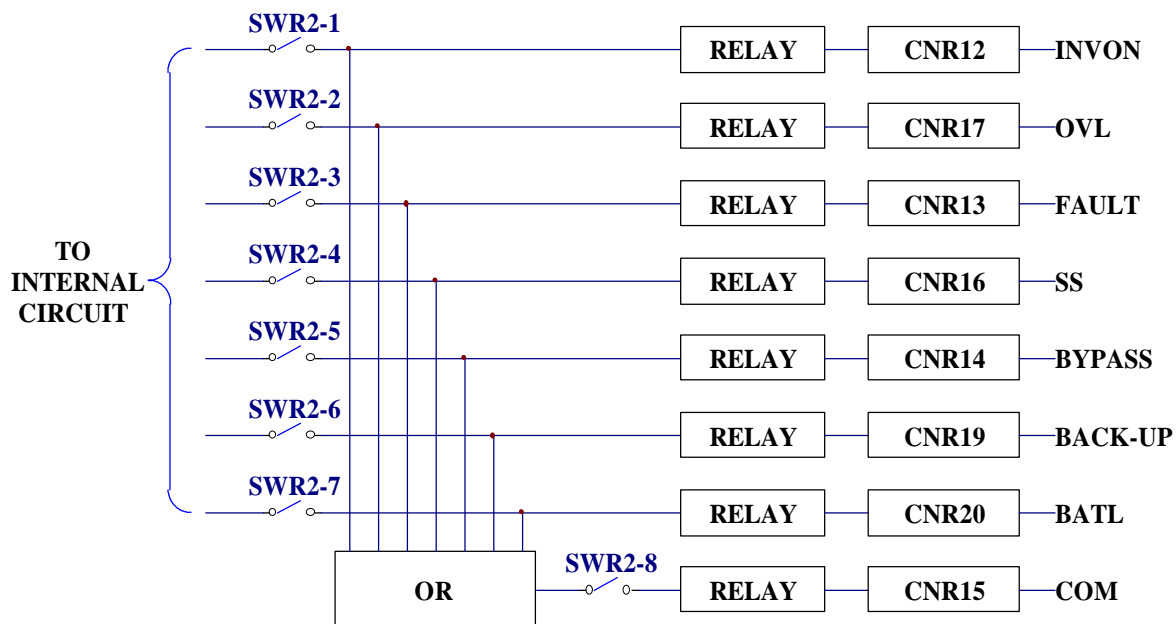
SS – Short when the inverter static switch is conducting, open when reserve static switch is conducting (The two static switches will never conduct simultaneously).

BYPASS – Short when the maintenance bypass breaker is closed, open when the breaker is opened.

BACK-UP – Short when the inverter (running) is in back-up mode by the battery.

BATL – Short when the inverter is discharging the battery and the battery is about to be discharged totally.

COM – This contact is the OR result of the signals described above. That is, any other contact close, this contact will close too. The signal to be ored is selectable through SWR2. See the figure





6.2 External Shutdown

2 pairs of terminals CNR 16 are provided for external shutdown. 10mA is needed for turning the internal photo-coupler on. User can use this terminal to shutdown the UPS when emergency conditions happens, such as fire, short circuit etc.

6.3 DB9 Connection

Four RS-485 and one RS-232 is provided to communicate with dedicated external modules. Each connector is especially dedicated to one type of external module. Their corresponding modules are listed below:

CNR10(RS-485) ⇔ UPSCAN – Remote Control Panel

CNR11(RS-485) ⇔ UPSCOM – Software of PC + hardware interface

CNR8(RS-485) ⇔ UPSWEB – Web Monitoring Module

CNR9(RS-485) ⇔ ACMAN – Power Management Module

CNR21(RS-232) ⇔ DCMAN – Battery Monitoring Module