

CAUTION:	RISK OF ELECTRIC SHOCK – MORE THAN ONE DISONNECT MAY BE REQUIRED TO	
	DEENERGIZE THE DEVICE BEFORE SERVICING.	
WARNING:	THE BOARD MUST BE MOUNTED ON A SOLID, VERTICAL SURFACE. EXCESSIVE / /IOLENT VIBRATION MAY CAUSE RELAYS TO ACTIVATE WITHOUT CAUSE IF MOUNTED IN ANOTHER POSITION.	
CAUTION:	NOT FOR USE IN FIRE / LIFE SAFETY SYSTEMS.	
Installation Notes:	This board must be mounted to a <u>vertical</u> , steady surface. The board can be installed with the terminals facing left/right or up/down. If mounted parallel to the ground, excessive / sudden vibration may cause some of the relays to activate without cause.	
	Expected Relay Life: 10 Million Cycles Min Mechanical Operating Temperature: -40°F to 160°F Humidity Range 5% to 95% (non-condensing) Over Current Protection: 0.5A glass fuse (3GA) Time to Operate: Trip 5 ms Min time between trip & rest 10 ms Power Input: 24 VAC@ 0.2A, 24VDC @ 0.15A Green LED on = Powered Red LED on = Safety Activated Dimensions: 4.75" x 6.00" x 1.75" Mounting Options Din rail mount snap track Ingress Protection: IPXO Approvals: ETL Recognized Component - Tested to UL 60730- 1 & CSA E60730-1 Beneral Layout	
24 VAC/VDC Power Replaceable 0.5A Fuse 24 VAC/VDC Powered GND 24V Isolated Dry contact for board "powered on" status Powered status Wired dry contact must be rated for 12VDC @ 0.5A (Voltage sourced from board) Reset 1 Isolated Dry contacts rated up to: 5A @ 120VAC 4A @ 30VDC Reset 2 Wired dry contacts from board) Input 1 Wired dry contact from board) Input 2	PSR-248 Output	



Purpose:

- The PSR-248 is a latching relay logic board designed to be installed in a rooftop HVAC unit and prevent internal pressure issues. The PSR-248 has (2) reset terminals, (4) input contacts & (8) output contacts. - It is expected that the inputs are dry contacts and the outputs are wired to VFDs.

Power:

- Connect to terminal marked 24V & GND
- 24 VAC @ 0.2A, 24VDC @ 0.15A
- Powered Status contact will be closed when board is powered.
 - Rated for 0.5A @ 60V (Resistive)

Fuse Replacement:

- In the event of an over current event, the on board fuse will protect the components from failure.
- Replace blown fuse with 0.5A (3GA) 5mm x 20mm glass fuse
- To replace fuse, remove power, remove non-operational glass fuse and replace with noted fuse.

Reset & Alarm Contacts:

- When the board is powered, these contacts are wet and expect a dry contact input.
- Connect contact marked "Reset #" or "Input #" to external dry contacts.
- External dry contact must be able to handle 12 VDC @ 0.5A
- WARNING Do not apply external voltage to these inputs. Voltage is sourced from the board.

Output Contacts:

- Connect contacts marked "Output #" to controllers / VFDs. Can be wired NO or NC.
- Output contacts are rated to handle 0.5A @ 125VAC or 2A @ 30VDC (Resistive)

Status Contacts:

- Connect contacts marked "Alarm # Status" to DDC controllers for alarm feedback.
- Output contacts are rated to handle 0.5A @ 125VAC or 2A @ 30VDC (Resistive)

Master (High Amperage) Relay

- Dry contact rated at 4A @ 120VAC (NO) and 3A @ 30VDC (NC) / 10A @ 30VDC (NO) (Resistive)
- Connect "Com" contact to voltage source.
- Connect "NC" contact to normal indicator / normal equipment operation.
- Connect "NO" contact to alarm indicator / alarm equipment operation.

Mounting Options:

- DIN Rail snap track – DIN rail size options: 32mm x 15mm, 35mm x 7.5mm, & 22.4mm x 6.9mm Normal Operation:

- If no alarm conditions exist, the outputs will be in there normal positions, the safety alarm status contacts will be open, the corresponding alarm status & master alarm red LEDs will be off and the master relay will be in the normal position. If board is powered, the "powered" relay will stay closed.

Alarm Operation:

- If an alarm condition exists, the outputs will be in their set position, the corresponding safety alarm status contacts will be closed, the corresponding safety status & master alarm red LEDs will be on and the master relay will be in the powered position. If board is powered, the "powered" relay will stay closed.

- The board will latch in alarm operation until one of the reset options are activated.

- Reset options: 1) Press the on board reset button, 2) Dry contact closure across one of the Reset terminals.

Conditions of Acceptability:

- This product was evaluated employing IPXO ingress protection. The need for additional ingress protection is to be provided by end use application enclosure.

- This product requires the end use application to provide an adequate electrical and fire enclosure.

- Not intended for use in altitudes above 2,000 meters.