



Pressure Safety

PSR-248

Latching Relay Logic Board for AHU and Fan Safety, 24 VAC/VDC

- ETL Recognized Component
- 24VAC/VDC powered
- (2) Board Reset Inputs
 - Manual Push Button Reset on Board
- (4) Board Alarm Inputs
 - Individual Alarm Status feedback
- (8) Selectable NC/NO outputs - activates when **ANY** input is tripped
- High amperage isolated dry SPDT relay

Specifications

- 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)
 - Trip 5 ms
- Time to Operate:**
 - Min time between trip & rest 10 ms
- Power Input:** 24 VAC @ 0.2A, 24VDC @ 0.15A
 - Green LED on = Powered
- Alarm Status:**
 - Red LED on = Safety Activated
- Dimensions:** 4.75" x 6.00" x 1.75"
- Mounting Options:** Din rail mount snap track
- Ingress Protection:** IPX0
- Approvals:** ETL Recognized Component - Tested to UL 60730-1 & CSA E60730-1



The PSR-248 is a latching relay logic board designed to be installed in an AHU and prevent internal pressure issues. The PSR-248 has (2) reset terminals for external reset (i.e. push button or BMS), (4) input alarm contacts & (8) shutdown output contacts that can be wired NO or NC.

The board is designed around the following logic: When any of the (4) input contacts sense a contact closure, the board will latch into an alarm state. In the alarm state, all (8) of the output relays will activate and latch into its set position and the master (high amp) relay will be held in the set position. The board will latch in the alarm state until the board is reset. The board can be reset by a dry contact closure to either of the (2) reset terminals or by the on board push button.

Input status LED indicators will allow for visual determination of the cause of a shutdown. Safety status contacts will allow DDC controllers to determine the cause of a shutdown. Powered status contacts allow for BMS to know that board is operational.

Installation Notes:

This board must be mounted to a vertical, steady surface. Excessive / sudden vibration may cause some of the relays to activate without cause.

PSR-248 Board Layout & Contact rating

