



OPAL-RT



OP8710 High Voltage Solid State Relay Box

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OP8710 RELAY BOX

INTRODUCTION

The High Voltage Interface Panel (HVIP) has the capacity to provide digital signals of up to 250 VDC to external equipment and can provide up to 16 such signals.

Opal-RT digital outputs are used to control the relay switch located between the +VDC and +LOAD connections.

The HVIP uses 8 Brentek International dual channel solid state output modules for the 16 output channels. Each output module can switch up to 250mA at 250VAC/VDC. The module is operated using an active low signal which is provided by the Opal-RT simulator.

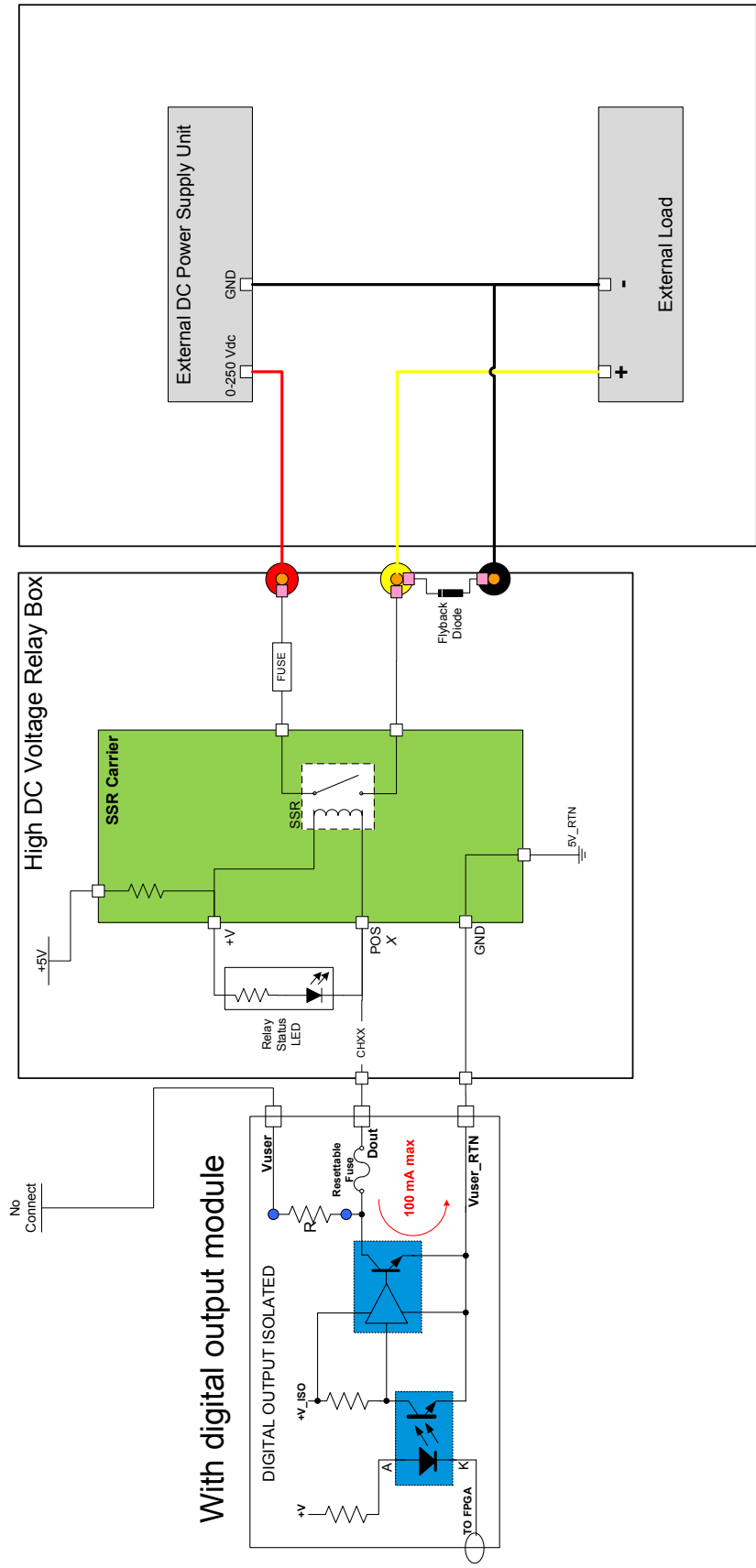
The module output contact is closed when 0 Volts is applied to the control input. When the module contact is closed, the relay status LED will be ON. If no connection is made to the control input, then the module contact is open.

The DB37 connector respects exactly the same pinout as the OP5600.

CAUTION

When making connections between the HVIP and the external equipment, ensure that the +VDC voltage supply is turned OFF

TYPICAL APPLICATION DIAGRAM



DB37 PIN ASSIGNMENTS

DB37 Connector	Channel	DB37 Connector	Channel
1	+IN00	20	-IN00
2	+IN01	21	-IN01
3	+IN02	22	-IN02
4	+IN03	23	-IN03
5	+IN04	24	-IN04
6	+IN05	25	-IN05
7	+IN06	26	-IN06
8	+IN07	27	-IN07
9	+IN08	28	-IN08
10	+IN09	29	-IN09
11	+IN10	30	-IN10
12	+IN11	31	-IN11
13	+IN12	32	-IN13
14	+IN13	33	-IN13
15	+IN14	34	-IN14
16	+IN15	35	-IN15
17		36	
18		37	
19			

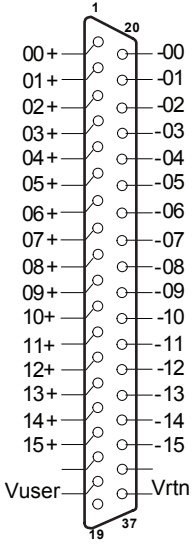


Table 1: Pin Assignments

SPECIFICATIONS

Product name	OP8710 High Voltage Relay Box
Part number	n/a
I/O connector	Front: banana jacks Rear: DB37
Power	AC 110/220 V, auto switching
Dimensions (HxW)	3.5 x 48.26 x 52.7 cm (1.72" x 19" x 20.75)
Operating temperature	10 to 40 °C (50 to 104°F)
Storage temperature	-55 to 85°C (-67 to 185°F)
Relative humidity	10 to 90%, non condensing
Maximum altitude	2,000 m (6562 ft.)

CONTACT

Opal-RT Corporate Headquarters

1751 Richardson, Suite 2525
Montréal, Québec, Canada
H3K 1G6
Tel.: 514-935-2323
Toll free: 1-877-935-2323

Technical Services

www.opal-rt.com/support

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