



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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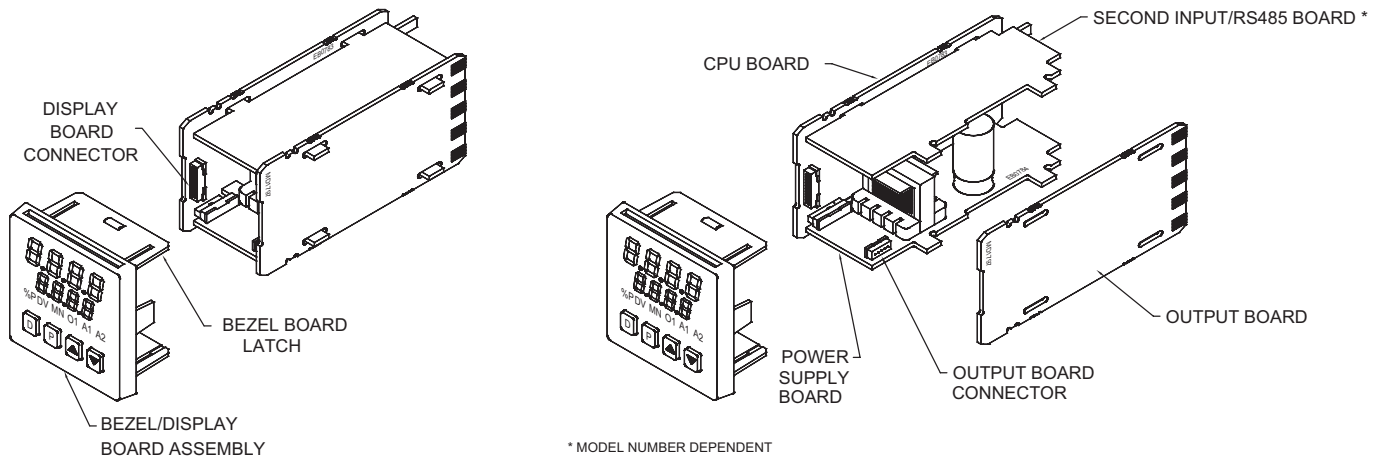
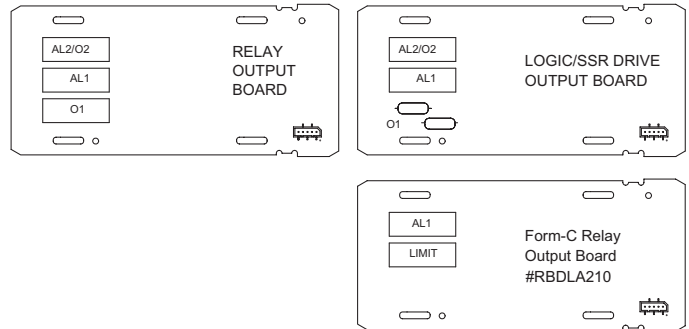
## T48/P48/TLA OUTPUT BOARD

### INSTALLING AN OUTPUT BOARD

**Caution:** The bezel assembly contains electronic circuits that can be damaged by static electricity. Before removing the assembly, discharge static charge on your body by touching an earth ground point. It is also important that the bezel assembly be handled only by the bezel itself. When handling a circuit board, be certain that hands are free from dirt, oil, etc., to avoid circuit contamination that may lead to a malfunction.

1. Remove the controller from the case.
2. Lift up on the top bezel board latch while gently pulling out on the bezel/display board assembly. Do NOT remove the display board from the bezel.
3. Remove the output board by pulling it away from the other boards. Replace the output board by aligning the board to board connector. Be certain the connector is fully mated.
4. Connect the bezel/display board assembly by guiding the board ends into the bezel latches. Slide the assembly on evenly until the display board connector is completely engaged and bezel latches are fully seated onto the boards.

**Note:** When replacing the output board, be certain to install a new output board of the same type. Appropriate rewiring considerations must be given if the output board type is changed.



### SPECIFICATIONS & TYPICAL CONNECTIONS

#### Relay Connections

##### RBD48 Relay Outputs:

- Type: Form-A (Shared common for the Alarms)
- Contact Rating: 3 A @ 250 VAC or 30 VDC (resistive load)

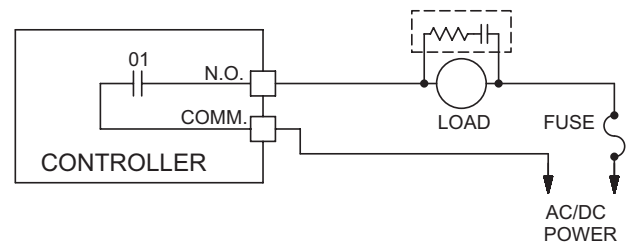
##### RBDLA Relay Outputs:

- Limit Relay Type: Form-C
- Alarm 1 Relay Type: Form-A
- Contact Rating: 5 A @ 250 VAC or 30 VDC (resistive load)
- Life Expectancy: 100,000 cycles at max. load rating. (Decreasing load and/or increasing cycle time, increases life expectancy.)

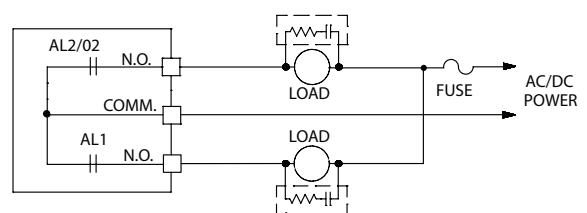
To prolong contact life and suppress electrical noise interference due to the switching of inductive loads, it is good installation practice to install a snubber across the contactor. Follow the manufacturer's instructions for installation.

**Note:** Snubber leakage current can cause some electromechanical devices to be held ON.

Main Control Output



Alarm Outputs/Cooling

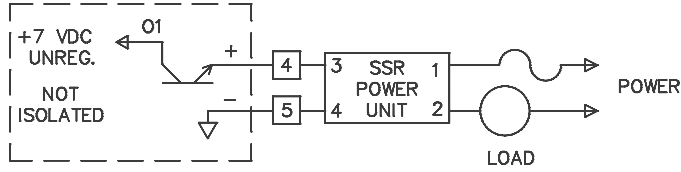


**Logic/SSR Connections (T48 Only)**

**Logic/SSR Drive Output (O1 only):**

**Rating:** 45 mA @ 4 V min., 7 V nominal (current limited)

Main Control Output



**ORDERING INFORMATION**

MODEL NO.	MAIN CONTROL OUTPUT	AL1	AL2 02 (COOL)	PART NUMBER
RBD48	RLY-A	NONE	NONE	RBD48100
	RLY-A	RLY-A	RLY-A	RBD48111
	LGC	NONE	NONE	RBD48200
RBDLA	LGC	RLY-A	RLY-A	RBD48211
	RLY-C	RLY-A	NONE	RBDLA210



Do not dispose of unit in trash - Recycle

*Note: For units equipped with a single alarm, order a dual alarm replacement board.*

*Note: RLY-A = Form-A Relay Output*

*RLY-C = Form-C Relay Output*

*LGC= Logic/SSR Drive Output*

**LIMITED WARRANTY**

The Company warrants the products it manufactures against defects in materials and workmanship for a period limited to two years from the date of shipment, provided the products have been stored, handled, installed, and used under proper conditions. The Company's liability under this limited warranty shall extend only to the repair or replacement of a defective product, at The Company's option. The Company disclaims all liability for any affirmation, promise or representation with respect to the products.

The customer agrees to hold Red Lion Controls harmless from, defend, and indemnify RLC against damages, claims, and expenses arising out of subsequent sales of RLC products or products containing components manufactured by RLC and based upon personal injuries, deaths, property damage, lost profits, and other matters which Buyer, its employees, or sub-contractors are or may be to any extent liable, including without limitation penalties imposed by the Consumer Product Safety Act (P.L. 92-573) and liability imposed upon any person pursuant to the Magnuson-Moss Warranty Act (P.L. 93-637), as now in effect or as amended hereafter.

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