Note:

This equipment is intended for field installation within the UL Listed enclosure model UL-ENCL, used with the ACX 57xx series controller for UL 294 and UL 1076.

ACX 57xx Series Controller or bCX1 Series Controller *

* The bCX1 series controller is not evaluated by UL.

Caution: Earth ground (➕) must be connected to avoid module damage

Modules Plug Together

Power must be disconnected from controller before installing any xPb module.

Adding expansion modules to the controller requires the controller to be coldstarted before it will recognize the module.
**Relay Outputs**

Contact Rating: 3A @ 24 VAC
3A @ 30 VDC

**Output Override Control**

- **OFF**: The output relay is de-energized to an ‘OFF’ state manually by setting the switch to OFF. Programs have no effect on the output when the switch is in this position.

- **AUTO**: The action of the output relay is determined as a direct result of program control.

- **ON**: The output relay is energized to an ‘ON’ state manually by setting the switch to ON. Programs have no effect on the output when the switch is in this position.

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**I/O Connections**

**Universal Inputs**

- **Thermistor**
- **DC Voltage**
- **Contact Closure**

Max DC Input Voltage = 5V

**Analog Outputs**

Voltage Output
0 - 10VDC, 5mA max.

Device Load Resistance 2K

**Output Override Control**

- **OFF**
- **AUTO**
- **MANUAL**

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**Expansion Limitations**

The number of expansion modules is limited by the controller firmware and the capacity of the power supply current available from the controller. The firmware supports a maximum of two modules plus the xPDisplay as long as the power consumption does not draw more current than the controller can supply.

**bCX1 Series Controllers**: Maximum current available is 400mA.

**ACX 57xx Series Controllers**: Maximum current available is 360mA.

<table>
<thead>
<tr>
<th>Module</th>
<th>Function</th>
<th>Current Draw @ 24VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>xPBA4</td>
<td>4 Universal Inputs, 4 Analog Voltage Outputs</td>
<td>60mA</td>
</tr>
<tr>
<td>xPBD4</td>
<td>4 Universal Inputs, 4 Relay Outputs</td>
<td>125mA</td>
</tr>
<tr>
<td>xPDISPLAY</td>
<td>Keypad/Display Module</td>
<td>70mA</td>
</tr>
</tbody>
</table>

**Normal CPU LED Pattern**

Expansion module connected closest to the controller will blink at 2Hz rate. A module connected to the first one will display two short blinks every two seconds. Incompatible or malfunctioning modules may display a steady ON or a short ON then completely OFF.