WARNING: To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify that the equipment, installation, and operation are in compliance with the latest revision of these codes.

Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or operation.

If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call Technical Support at 770-844-4200.

This publication is based on information that was available at the time it was printed. At AutomationDirect.com® we constantly strive to improve our products and services, so we reserve the right to make changes to the products and/or publications at any time without notice and without any obligation. This publication may also discuss features that may not be available in certain revisions of the product.

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**General Specifications**

Operating Temperature
- 0° to 45°C (32° to 113°F) – Rev A, B (Prior to May 2018)
- 0° to 60°C (32° to 140°F) – Rev C (After May 2018)

Storage Temperature
- -20° to 70°C (-4° to 158°F)

Humidity
- 5 to 95% (non-condensing)

Environmental Air
- No corrosive gases permitted

Vibration
- IEC60068-2-6 (Test Fc)

Shock
- IEC60068-2-27 (Test Ea)

Enclosure Type
- Open Equipment

Agency Approvals
- UL61010-2-201 file E139594, Canada & USA CE (Safety: EN61010-2-201 and Immunity: EN61131-2: 2007)

Noise Immunity
- NEMA ICS3-304

EU Directive
- See the “EU Directive” topic in the BRX Help File.

Weight
- 104g (3.7 oz)

Heat Dissipation
- 3.1W

Software Version Required
- Do-more! Designer Version 2.1, or later.

*Meets EMC and Safety requirements. See the D.O.C. for details.

---

**Analog Voltage Output Specifications**

Outputs per Module
- 8

Commons
- 1

Module Signal Output Range
- ±10 VDC, ±5 VDC, 0-5 VDC, 0-10 VDC (Default)

Signal Resolution
- 16 bit, 15 bit (Default)

Resolution Value of LSB (least significant bit)
- Voltage outputs sources/sinking at 10mA (example 10V, @ 1KΩ load).

Output Value in Fault Mode
- Voltage outputs 0V (Uni or Bipolar)

Minimum Load Impedance
- 1KΩ

Maximum Capacitive Load
- 1000pF

Allowed Load Type
- Grounded

Maximum Continuous Overload
- 15mA

All Channel Update Rate
- 3ms

Maximum Inaccuracy
- 0.2% of range

Maximum Full Scale Calibration Error
- ±0.08% of range

Maximum Offset Calibration Error
- ±0.04% of range

Accuracy vs. Temperature
- ±25PPM / °C maximum

Maximum Crosstalk
- +3μV

Linearity Error (end to end)
- ±0.01% of range

Output Stability and Repeatability
- ±0.02% of full range after 10 minute warm-up (typical)

Output Ripple
- 100μV/1mA

Output Settling Time
- 200μs

Channel to Backplane Isolation
- 1800VAC applied for 1 second

Channel to Channel Isolation
- None

Loop Fusing (external)
- Fast-acting 0.032A recommended

Backplane Power Consumption
- 0.1W

External DC Power Required
- Class 2 or LPS power supply
  - 24VDC (±20%)
  - 100mA

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**BX-08DA-2B**

Analog Voltage Output Expansion Module

8-ch, ±10 / ±5 / 0-5 / 0-10 VDC

I/O Terminal Blocks sold separately. (See Connector Options Spec. table inside.)

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**Important Note:**

This device cannot be Hot Swapped.

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**Do-more! BRX Manual available at**

**Module Installation**

1. **To Install**, remove Connector Cover
2. Align expansion connectors, insert, and listen for “Click” as the lock engages

**Dimensional Information**

**Connector Options Specifications**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>BX-RTB10</th>
<th>BX-RTB10-1</th>
<th>BX-RTB10-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector Type</td>
<td>Screw Type-90°</td>
<td>Spring Clamp Type-180°</td>
<td>Screw Type-180°</td>
</tr>
<tr>
<td>Pitch</td>
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</tr>
<tr>
<td>Recommended Screw torque</td>
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</tr>
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</tr>
<tr>
<td>Equivalent Dinkle part #</td>
<td>EC381V-10P-BK</td>
<td>ESC381V-10-BK</td>
<td>EC381F-10P-BK</td>
</tr>
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**Terminal Block Connector Specifications**

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**I/O Wiring**

**Terminal Block Output Wiring**

**I/O Wiring**

**Analog Voltage Output Circuit**

*An Edison S500-32-R 0.032A fast-acting fuse is recommended for all analog voltage inputs, analog outputs, and current loops.

NOTE: Shield should be connected only at one end, to ground at the source device.