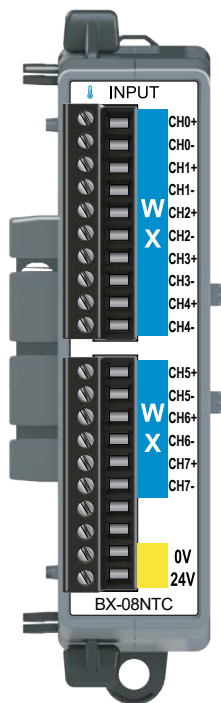


# BX-08NTC Thermistor Input



**BX-RTB10 Terminal Blocks Included. The BX-RTB10-1 or BX-RTB10-2 (purchased separately) can also be used.**

**BX-08NTC \$269.00**

Input Module 8-pt,  
Thermistor



**NOTE:** This device does not support **ZIPLink** Wiring Systems

| Thermistor Input Specifications                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Input Channels</b>                                                     | 8 Single-ended                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Commons</b>                                                            | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Resolution</b>                                                         | 16-bit, $\pm 0.1^{\circ}\text{C}$ or $^{\circ}\text{F}$ (up to 100Hz filter)<br>See Data Range Specifications table                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Thermistor Input Ranges</b>                                            | 2252: $-40^{\circ}$ to $150^{\circ}\text{C}$ ( $-40^{\circ}$ to $302^{\circ}\text{F}$ )<br>10K-AN Type 3: $-40^{\circ}$ to $150^{\circ}\text{C}$ ( $-40^{\circ}$ to $302^{\circ}\text{F}$ )<br>10K-CP Type 2: $-40^{\circ}$ to $150^{\circ}\text{C}$ ( $-40^{\circ}$ to $302^{\circ}\text{F}$ )<br>5K: $-40^{\circ}$ to $150^{\circ}\text{C}$ ( $-40^{\circ}$ to $302^{\circ}\text{F}$ )<br>3K: $-40^{\circ}$ to $150^{\circ}\text{C}$ ( $-40^{\circ}$ to $302^{\circ}\text{F}$ )<br>1.8K: $-40^{\circ}$ to $150^{\circ}\text{C}$ ( $-40^{\circ}$ to $302^{\circ}\text{F}$ ) |
| <b>Thermistor Linearization</b>                                           | Automatic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Excitation Current (all ranges)</b>                                    | 10 $\mu\text{A}$ to 210 $\mu\text{A}$ autoscailing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Accuracy vs. Temperature</b>                                           | $\pm 10\text{PPM}$ per $^{\circ}\text{C}$ (maximum)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Full Scale Calibration</b>                                             | $\pm 1^{\circ}\text{C}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Offset Calibration Error</b>                                           | $\pm 1^{\circ}\text{C}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Linearity Error (end to end)</b>                                       | Nonlinear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Maximum Inaccuracy</b>                                                 | 1 $^{\circ}\text{C}$ @ 16.7 Hz, 2.5 $^{\circ}\text{C}$ @ 470Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Warm-up Time</b>                                                       | 30 minutes for $\pm 1^{\circ}\text{C}$ Repeatability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Sample Duration</b>                                                    | 120ms @ 16.7 Hz, 4ms @ 470Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>All Channel Update Rate</b>                                            | 2.2 s @ 16.7 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Open Circuit Detection Time</b>                                        | Within 2s @ 16.7 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Common Mode Rejection</b>                                              | 100dB @ DC and 100dB @ 60Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Absolute Maximum Ratings</b>                                           | Fault protected inputs to $\pm 50\text{V}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Conversion Method</b>                                                  | Sigma-Delta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Backplane Power Consumption</b>                                        | 0.1 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>External DC Power Required</b>                                         | Class 2 or LPS power supply<br>24VDC ( $\pm 20\%$ )<br>25mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Heat Dissipation</b>                                                   | 0.8 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Weight</b>                                                             | 98g (3.5 oz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Software Version Required (Do-more! Designer Programming Software)</b> | 2.3 or later                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Data Range Specifications |                                     |                                                                        |
|---------------------------|-------------------------------------|------------------------------------------------------------------------|
| Selection                 | Description                         | Raw Counts <sup>1</sup>                                                |
| 2252                      | 2252 $\Omega$ thermistor            | $^{\circ}\text{C}$ : -400 to 1500<br>$^{\circ}\text{F}$ : -400 to 3020 |
| 10K-AN Type 3             | 10k $\Omega$ Type 3 (AN) thermistor |                                                                        |
| 10K-CP Type 2             | 10k $\Omega$ Type 2 (CP) thermistor |                                                                        |
| 5K                        | 5k $\Omega$ thermistor              |                                                                        |
| 3K                        | 3k $\Omega$ thermistor              |                                                                        |
| 1.8K                      | 1.8 k $\Omega$ thermistor           |                                                                        |

1. Temperatures have one implied decimal place (e.g., raw count of -400 is  $-40.0^{\circ}$ ).

**IMPORTANT!**

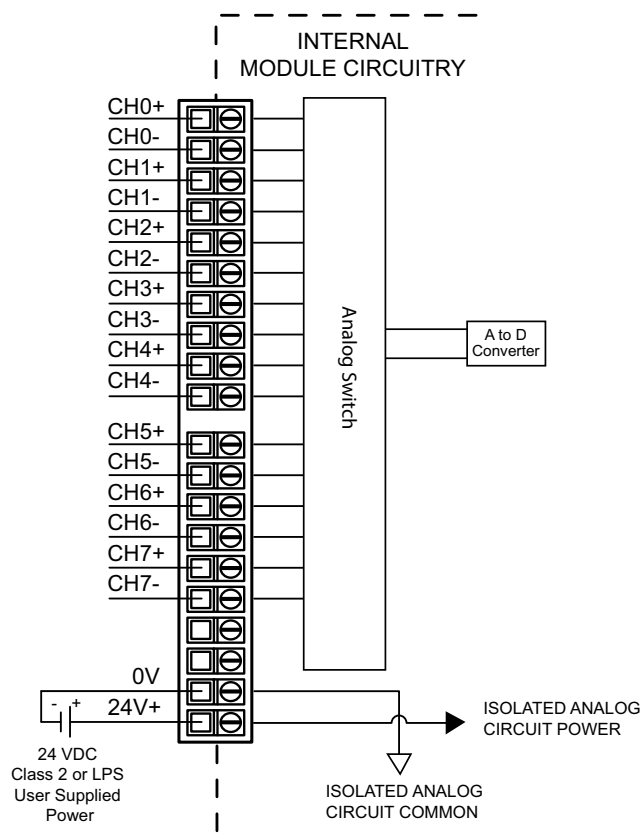


## Hot-Swapping Information

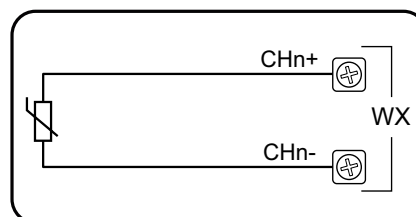
Note: This device cannot be Hot Swapped.

# BX-08NTC Thermistor Input, continued

## Thermistor Input Wiring



## Thermistor Input Circuits



# BRX Analog Expansion Modules

## Overview

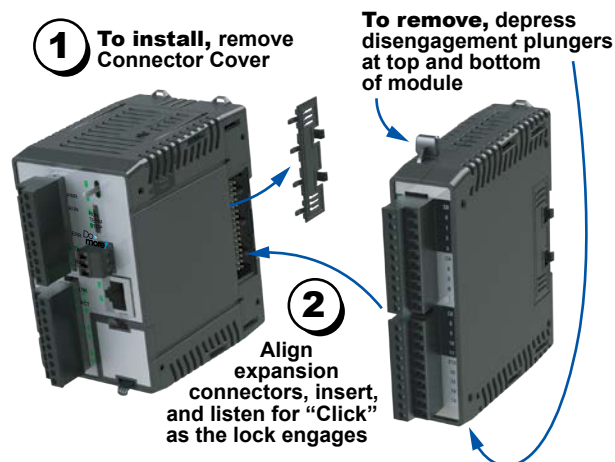
One of the unique features of the BRX platform is its ability to expand its capability to fit your application solution. One of the ways the BRX platform can do this is by using expansion modules that conveniently "snap-on" to the side of any BRX MPU. Once the expansion module has been snapped in place and is added to the project, it instantly adds I/O to the MPU with little to no additional setup required.

The analog expansion modules give you the ability to add analog I/O as needed and are identified as an analog input module, temperature input module, or analog output module. On the front panel of the analog I/O expansion modules, a color scheme and a

symbol are used to denote the module type.

Analog modules are available with current inputs or outputs, unipolar/bipolar voltage inputs or outputs, thermocouple inputs, RTD inputs and thermistor inputs. Input/output combination modules are also available.

With the exception of temperature input modules, the modules ship without wiring terminals. This allows you to select the termination style that best fits your application. Several wiring options are available, including screw terminal connectors, spring clamp terminal connectors and pre-wired **ZIP**Link cable solutions.



### Hot-Swapping Information

Note: This device cannot be Hot Swapped.

## General Specifications

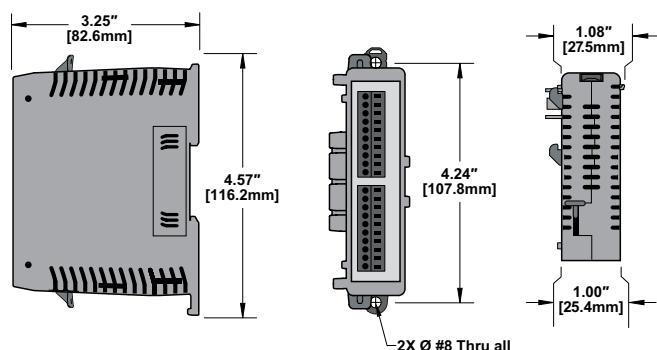
All BRX analog input and output modules and temperature input modules have the same general specifications listed in the table below.

| General Specifications                                                               |                                                                                                                         |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Storage Temperature</b>                                                           | -20° to 70°C (-4° to 158°F)                                                                                             |
| <b>Humidity</b>                                                                      | 5% to 95% (non-condensing)                                                                                              |
| <b>Environmental Air</b>                                                             | No corrosive gases permitted                                                                                            |
| <b>Vibration</b>                                                                     | IEC60068-2-6 (Test Fc)                                                                                                  |
| <b>Shock</b>                                                                         | IEC60068-2-27 (Test Ea)                                                                                                 |
| <b>Enclosure Type</b>                                                                | Open Equipment                                                                                                          |
| <b>Noise Immunity</b>                                                                | NEMA ICS3-304                                                                                                           |
| <b>EU Directive</b>                                                                  | See the "EU Directive" topic in the BRX Help File                                                                       |
| <b>Agency Approvals (unless otherwise noted on individual module specifications)</b> | UL 61010-1 and UL 61010-2-201 File E139594, Canada and USA<br>CE (EN 61131-2 EMC, EN 61010-1 and EN 61010-2-201 Safety) |

| Operating Temperature Range                                           |                              |                           |
|-----------------------------------------------------------------------|------------------------------|---------------------------|
| Operating Temperature                                                 | 0° to 45°C (32° to 113°F)    | 0° to 60°C (32° to 140°F) |
| Module                                                                | Module Revision*             |                           |
| <b><u>BX-08AD-1</u></b>                                               | Rev A<br>(Prior to May 2018) | Rev B<br>(After May 2018) |
| <b><u>BX-08AD-2B</u></b>                                              |                              |                           |
| <b><u>BX-04THM</u></b>                                                |                              |                           |
| <b><u>BX-08DA-1</u></b>                                               |                              |                           |
| <b><u>BX-08DA-2B</u></b>                                              | Rev B<br>(Prior to May 2018) | Rev C<br>(After May 2018) |
| <b>All other Analog and Temperature Expansion Module part numbers</b> | N/A                          | Rev A<br>(After May 2018) |

\* Module Revision can be found in the last letter (last or second-to-last character) of the module serial number.



## Dimensions

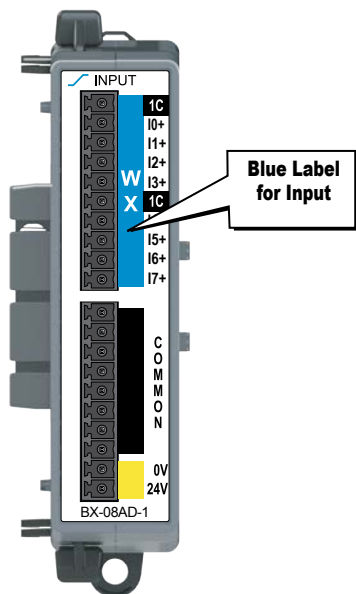


**NOTE:** When removing an expansion module, make sure there is room for the module to slide away from the system. Failure to do so will result in difficulty removing the module.

# BRX Analog Expansion Modules


## Analog Input Modules

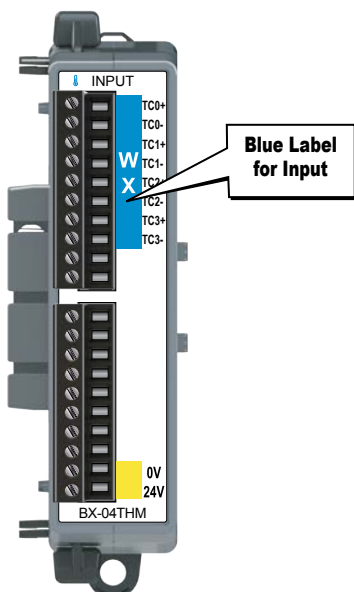
Nine (9) analog input modules are available, with current or voltage inputs. Analog input module faceplates have a blue terminal bar to distinguish them as inputs, with symbols  or  to signify current or voltage, respectively.



| Analog Input Modules              |        |                                                  |            |          |
|-----------------------------------|--------|--------------------------------------------------|------------|----------|
| Part Number                       | Points | Input Type                                       | Resolution | Price    |
| <a href="#"><u>BX-04ADM-1</u></a> | 4      | Current Sink<br>0–20 mA, 4–20 mA                 | 14-bit     | \$182.00 |
| <a href="#"><u>BX-04AD-1</u></a>  | 4      | Current Sink<br>0–20 mA, 4–20 mA                 | 16-bit     | \$230.00 |
| <a href="#"><u>BX-08AD-1</u></a>  | 8      |                                                  |            | \$255.00 |
| <a href="#"><u>BX-16AD-1</u></a>  | 16     |                                                  |            | \$363.00 |
| <a href="#"><u>BX-04AD-2B</u></a> | 4      | Voltage<br>± 10VDC, ± 5VDC,<br>0–5 VDC, 0–10 VDC | 16-bit     | \$230.00 |
| <a href="#"><u>BX-08AD-2B</u></a> | 8      |                                                  |            | \$255.00 |
| <a href="#"><u>BX-16AD-2B</u></a> | 16     |                                                  |            | \$363.00 |
| <a href="#"><u>BX-04AD-3</u></a>  | 4      | Current Sink<br>0–20mA, 4–20mA                   | 16-bit     | \$182.00 |
| <a href="#"><u>BX-08AD-3</u></a>  | 8      | Voltage<br>±10VDC, ±5VDC,<br>0–5VDC, 0–10VDC     |            | \$212.00 |

## Temperature Input Module



Six (6) temperature input modules are available, with thermocouple, RTD, and/or thermistor inputs. The thermocouple input modules can also be configured for millivolt-level voltage inputs, and the RTD input module can also be configured for resistance input. Temperature module faceplates have a blue terminal bar to distinguish them as inputs, and  symbol to signify temperature.

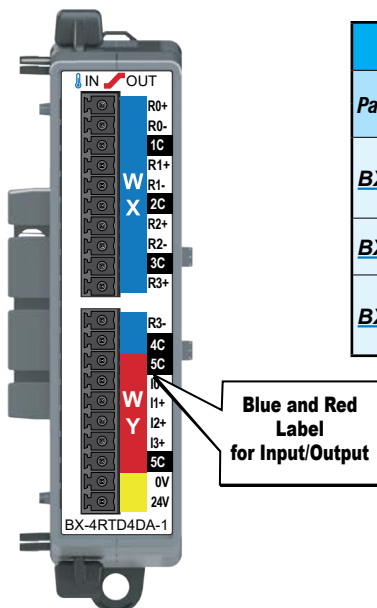


| Temperature Input Modules       |        |                                                                 |          |
|---------------------------------|--------|-----------------------------------------------------------------|----------|
| Part Number                     | Points | Input Type                                                      | Price    |
| <a href="#"><u>BX-04THM</u></a> | 4      | Thermocouple                                                    | \$241.00 |
| <a href="#"><u>BX-08THM</u></a> | 8      | Thermocouple                                                    | \$269.00 |
| <a href="#"><u>BX-06RTD</u></a> | 6      | RTD                                                             | \$255.00 |
| <a href="#"><u>BX-08NTC</u></a> | 8      | Thermistor                                                      | \$269.00 |
| <a href="#"><u>BX-04UT</u></a>  | 4      | Universal Temperature (Thermocouple, RTD, Thermistor supported) | \$211.00 |
| <a href="#"><u>BX-08UT</u></a>  | 6      | Universal Temperature (Thermocouple, RTD, Thermistor supported) | \$235.00 |

# BRX Analog Expansion Modules



## Temperature/Analog Combo Module

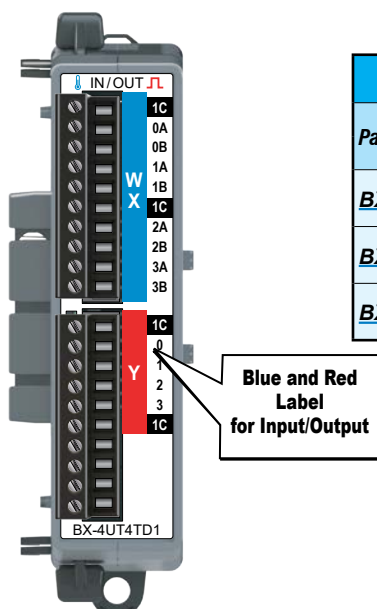
Three (3) combination modules are available, with thermocouple, RTD or universal temperature inputs and current sourcing outputs. The thermocouple input modules can also be configured for millivolt-level voltage inputs, and the RTD input module can also be configured for resistance input. The Input/Output faceplate terminal bar is in blue and red, making it easy to distinguish between inputs and outputs, and the  and  symbols signify temperature and current, respectively.



| Temperature Input / Analog Output Combo Modules |        |        |                                       |                                                                           |          |
|-------------------------------------------------|--------|--------|---------------------------------------|---------------------------------------------------------------------------|----------|
| Part Number                                     | Points |        | Input Type                            | Output Type                                                               | Price    |
|                                                 | Input  | Output |                                       |                                                                           |          |
| <a href="#"><u>BX-4RTD4DA-1</u></a>             | 4      | 4      | Resistance Temperature Detector (RTD) | Current Source<br>0–20mA, 4–20mA                                          | \$472.00 |
| <a href="#"><u>BX-4THM4DA-1</u></a>             | 4      | 4      | Thermocouple                          | Current Source<br>0–20mA, 4–20mA                                          | \$472.00 |
| <a href="#"><u>BX-4UT4DA-3</u></a>              | 4      | 4      | Universal Temperature                 | Current Source: 0–20mA, 4–20mA<br>Voltage: ±10VDC, ±5VDC, 0–5VDC, 0–10VDC | \$412.00 |

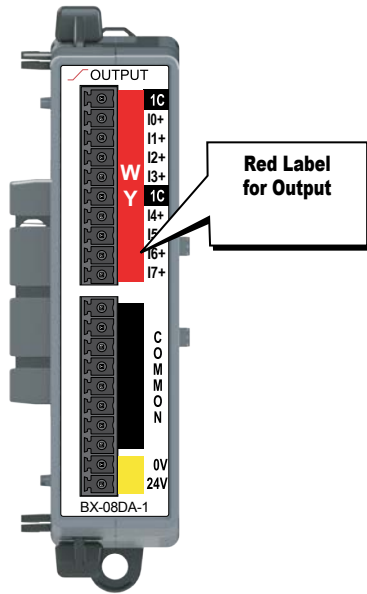
## Temperature/Discrete Combo Module

Three (3) combination modules are available with universal temperature inputs and DC sinking, sourcing or relay outputs. The thermocouple inputs can also be configured for millivolt-level voltage inputs, and the RTD inputs can also be configured for resistance input. The Input/Output faceplate terminal bar is in blue and red, making it easy to distinguish between inputs and outputs, and the  and  symbols signify temperature and discrete signals, respectively.





| Temperature Input / Discrete Output Combo Modules |        |        |                       |                     |          |
|---------------------------------------------------|--------|--------|-----------------------|---------------------|----------|
| Part Number                                       | Points |        | Input Type            | Output Type         | Price    |
|                                                   | Input  | Output |                       |                     |          |
| <a href="#"><u>BX-4UT4TD1</u></a>                 | 4      | 4      | Universal Temperature | 12–24 VDC Sinking   | \$235.00 |
| <a href="#"><u>BX-4UT4TD2</u></a>                 | 4      | 4      |                       | 12–24 VDC Sourcing  | \$235.00 |
| <a href="#"><u>BX-4UT4TR</u></a>                  | 4      | 4      |                       | Relay Form A (SPST) | \$235.00 |

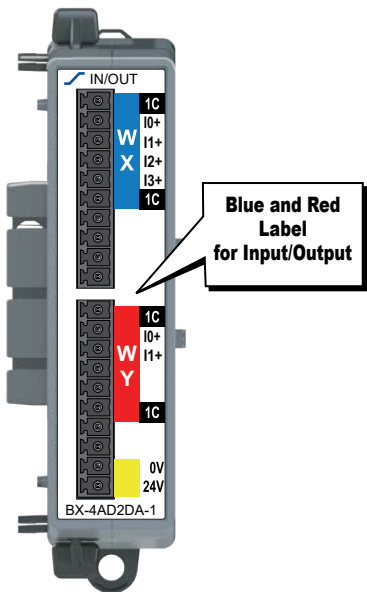
# BRX Analog Expansion Modules





## Analog Output Modules

Six (6) analog output modules are available, in current and voltage outputs. Analog output module faceplates have a red terminal bar to distinguish them as outputs, with symbols  or  to signify current or voltage, respectively.

| Analog Output Modules             |        |                                                                                  |          |
|-----------------------------------|--------|----------------------------------------------------------------------------------|----------|
| Part Number                       | Points | Output Type                                                                      | Price    |
| <a href="#"><u>BX-04DA-1</u></a>  | 4      | Current Source<br>0–20 mA, 4–20 mA                                               | \$269.00 |
| <a href="#"><u>BX-08DA-1</u></a>  | 8      |                                                                                  | \$350.00 |
| <a href="#"><u>BX-04DA-2B</u></a> | 4      | Voltage<br>±10VDC, ±5VDC,<br>0–5 VDC, 0–10 VDC                                   | \$269.00 |
| <a href="#"><u>BX-08DA-2B</u></a> | 8      |                                                                                  | \$350.00 |
| <a href="#"><u>BX-04DA-3</u></a>  | 4      | Current Source<br>0–20mA, 4–20mA<br>Voltage<br>±10VDC, ±5VDC,<br>0–5VDC, 0–10VDC | \$231.00 |
| <a href="#"><u>BX-08DA-3</u></a>  | 8      |                                                                                  | \$294.00 |



## Analog Combo Input / Output Modules

Six (6) analog input/output combo modules are available with current or voltage inputs and outputs. The Input/Output faceplate terminal bar is in blue and red, making it easy to distinguish between inputs and outputs. Symbols  and  signify current and voltage, respectively.

| Analog Combo Input / Output Modules |        |        |                                                                                  |                                                                                  |          |
|-------------------------------------|--------|--------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------|
| Part Number                         | Points |        | Input Type                                                                       | Output Type                                                                      | Price    |
|                                     | Input  | Output |                                                                                  |                                                                                  |          |
| <a href="#"><u>BX-2AD2DA-1</u></a>  | 2      | 2      | Current Sink<br>0–20mA, 4–20mA                                                   | Current Source<br>0–20mA, 4–20mA                                                 | \$309.00 |
| <a href="#"><u>BX-4AD2DA-1</u></a>  | 4      | 2      |                                                                                  |                                                                                  | \$378.00 |
| <a href="#"><u>BX-2AD2DA-2B</u></a> | 2      | 2      | Voltage<br>±10VDC, ±5VDC,<br>0–5VDC, 0–10VDC                                     | Voltage<br>±10VDC, ±5VDC,<br>0–5VDC, 0–10VDC                                     | \$309.00 |
| <a href="#"><u>BX-4AD2DA-2B</u></a> | 4      | 2      |                                                                                  |                                                                                  | \$378.00 |
| <a href="#"><u>BX-2AD2DA-3</u></a>  | 2      | 2      | Current Source<br>0–20mA, 4–20mA<br>Voltage<br>±10VDC, ±5VDC,<br>0–5VDC, 0–10VDC | Current Source<br>0–20mA, 4–20mA<br>Voltage<br>±10VDC, ±5VDC,<br>0–5VDC, 0–10VDC | \$269.00 |
| <a href="#"><u>BX-4AD4DA-3</u></a>  | 4      | 4      |                                                                                  |                                                                                  | \$330.00 |

| Expansion Module Support by Controller |                     |
|----------------------------------------|---------------------|
| Controller Type                        | # Expansion Modules |
| <a href="#"><u>BX-DM1E-M</u></a>       | 8                   |
| <a href="#"><u>BX-DM1-10</u></a>       | 2                   |
| <a href="#"><u>BX-DM1E-10</u></a>      | 2                   |
| <a href="#"><u>BX-DM1-18</u></a>       | 4                   |
| <a href="#"><u>BX-DM1E-18</u></a>      | 8                   |
| <a href="#"><u>BX-DM1-36</u></a>       | 4                   |
| <a href="#"><u>BX-DM1E-36</u></a>      | 8                   |
| <a href="#"><u>BX-DMIO*</u></a>        | 8                   |
| <a href="#"><u>BX-EBC100*</u></a>      | 8                   |
| <a href="#"><u>BX-MBIO*</u></a>        | 8                   |

\* Remote I/O controllers do not support Motion Control and Communications Modules.

# BRX Wiring Termination Options

## Terminal Block Connectors

The terminal block connectors are provided in kits of multiple connectors that are ordered as a single part number. There are 2 different types of kits to choose from; one kit for the five (5), eight (8) and 12-point discrete, and one

kit for the analog modules and 16-point discrete modules. The five (5), eight (8) and 12-point discrete module kits each have (3) 5-pin 5mm connectors. The 8-point modules will use only 2 of the 5-pin connectors.

The five (5) and 12-point modules will use all three connectors. The analog and 16-point digital module kits include (2) 10-pin 3.81 mm connectors.

## Terminal Block Connectors, 5, 8 and 12-Point Discrete Modules

Terminal Block Kits for 5-point, 8-point and 12-point Expansion Modules



**BX-RTB08** (Kit - 3 pieces)



**BX-RTB08-1** (Kit - 3 pieces)



**BX-RTB08-2** (Kit - 3 pieces)

Terminal Block Specifications 5-, 8- & 12-Point Type

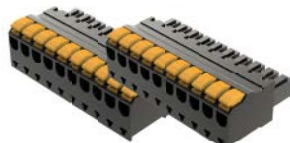
| Part Number<br>Single Block<br>Set of 3 Blocks | <b><u>BX-RTB05</u></b><br><b><u>BX-RTB08</u></b> | <b><u>BX-RTB05-1</u></b><br><b><u>BX-RTB08-1</u></b> | <b><u>BX-RTB05-2</u></b><br><b><u>BX-RTB08-2</u></b> |
|------------------------------------------------|--------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| Price (Single Block)                           | \$8.50                                           | \$7.00                                               | \$8.00                                               |
| Price (Kit)                                    | \$15.00                                          | \$14.50                                              | \$15.00                                              |
| Connector Type                                 | Screw Type - 90-degree                           | Spring Clamp Type - 180-degree                       | Screw Type - 180-degree                              |
| Wire Exit                                      | 180-degree                                       | 180-degree                                           | 180-degree                                           |
| Pitch                                          | 5.0 mm                                           | 5.0 mm                                               | 5.0 mm                                               |
| Screw Size                                     | M2.5                                             | N/A                                                  | M2.5                                                 |
| Screw Torque Recommended                       | < 3.98 lb-in<br>(0.45 N·m)                       | N/A                                                  | < 3.98 lb-in<br>(0.45 N·m)                           |
| Screwdriver Blade Width                        | 3.5 mm                                           | 3.5 mm                                               | 3.5 mm                                               |
| Wire Gauge (Single Wire)                       | 28-12 AWG                                        | 28-14 AWG                                            | 28-12 AWG                                            |
| Wire Gauge (Dual Wire)                         | 28-16 AWG                                        | 28-16 AWG<br>(Dual Wire Ferrule Required)            | 28-16 AWG                                            |
| Wire Strip Length                              | 0.3 in (7.5 mm)                                  | 0.37 in (9.5 mm)                                     | 0.3 in (7.5 mm)                                      |
| Equiv. Dinkle P/N                              | 5ESDV-05P-BK                                     | 5ESDSR-05P-BK                                        | 5ESDF-05P-BK                                         |

## Terminal Block Connectors, Analog Modules and 16-Point Discrete Modules

Terminal Block Kits for Analog and 16-point Discrete Expansion Modules



**BX-RTB10** (Kit - 2 pieces)



**BX-RTB10-1** (Kit - 2 pieces)



**BX-RTB10-2** (Kit - 2 pieces)

Terminal Block Specifications 16-Point Type

| Part Number              | <b><u>BX-RTB10</u></b>   | <b><u>BX-RTB10-1</u></b>                  | <b><u>BX-RTB10-2</u></b> |
|--------------------------|--------------------------|-------------------------------------------|--------------------------|
| Price (Kit)              | \$21.50                  | \$24.00                                   | \$22.50                  |
| Connector Type           | Screw Type 90-degree     | Spring Clamp Type 180-degree              | Screw Type 180-degree    |
| Wire Exit                | 180-degree               | 180-degree                                | 180-degree               |
| Pitch                    | 3.81 mm                  | 3.81 mm                                   | 3.81 mm                  |
| Screw Size               | M2                       | N/A                                       | M2                       |
| Screw Torque Recommended | <1.77 lb-in<br>(0.2 N·m) | N/A                                       | <1.77 lb-in<br>(0.2 N·m) |
| Screwdriver Blade Width  | 2.5 mm                   | 2.5 mm                                    | 2.5 mm                   |
| Wire Gauge (Single Wire) | 28-16 AWG                | 26-18 AWG                                 | 30-16 AWG                |
| Wire Gauge (Dual Wire)   | 28-18 AWG                | 30-20 AWG<br>(Dual Wire Ferrule Required) | 30-18 AWG                |
| Wire Strip Length        | 0.24 in (6mm)            | 0.35 in (9mm)                             | 0.26 in (6.5 mm)         |
| Equiv. Dinkle P/N        | EC381V-10P-BK            | ESC381V-10-BK                             | EC381F-10P-BK            |



**NOTE:** BX-RTB10 terminal blocks are included with Temperature Input modules.