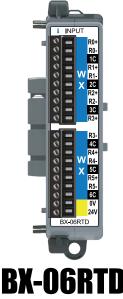
Conorol Specific					
General Specifications					
Operating Temperature	0° to 60°C (32° to 140°F)				
Storage Temperature	-20° to 70°C (-4° to 158°F)				
Humidity	5 to 95% (non-condensing)				
Environmental Air	No corrosive gases permitted				
Vibration	IEC60068-2-6 (Test Fc)				
Shock	IEC60068-2-27 (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	96g (3.4 oz)				
Heat Dissipation	0.8W				
Software Version Required	Do-more! Designer Version 2.3, or later.				

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

RTD Input Specifications					
Input Channels	6 Differential				
Commons	6				
Resolution	16-bit, ±0.1°C or °F (up to 100Hz filter)				
Input Ranges (RTD Types)	Pt100 -200°C/850°C (-328°F/1562°F) Pt1000 -200°C/595°C (-328°F/1103°F) JPt100 -100°C/450°C (-148°F / 842°F) 10Ω Cu. -200°C/260°C (-328°F / 500°F) ±3°C 25Ω Cu. -200°C/260°C (-328°F / 500°F) ±3°C 120Ω Ni. - 80°C/260°C (-112°F / 500°F)				

RTD Input Specifie	cations – Continued	
	0 – 10,000 Ω	
	0 – 6,250 Ω	
Input Resistance Ranges	0 – 3,125 Ω	
input recictance rangee	0 – 1,562.5 Ω	
	0 – 781.2 Ω 0 – 390.6 Ω	
	0 – 390.6 Ω 0 – 195.3 Ω	
RTD Linearization	Automatic	
Excitation Current (all ranges)	•	
Accuracy vs. Temperature	±10ppm per °C (maximum)	
Full Scale Calibration	±1°C	
Offset Calibration Error	±1°C, ±3°C for 10Ω/25Ω Cu.	
	\pm 1°C, \pm 3°C for 10Ω/25Ω Cu. maximum	
Maximum Inaccuracy	(excluding RTD error)	
	(including temperature drift)	
Warm-up Time	2 minutes for ±0.2% repeatability	
Sample Duration	Dependent on digital Filter Settings – 120ms@16.7Hz, 4ms@470Hz	
Filter Characteristics	Digital filter cutoff frequencies: 16.7Hz, 470Hz	
All Channel Update Rate	210ms + 170ms x (num. active channels) @470Hz 210ms + 750ms x (num. active channels) @16.7Hz	
Open Circuit Detection Time	Positive full scale reading within 2s	
Max. Common Mode Voltage	5VDC	
Common Mode Rejection	-90dB min. @ DC, -150dB min. @ 50/60 Hz	
Absolute Maximum Ratings	Fault protected input, ±50V	
Conversion Method	Sigma-Delta	
Backplane Power	0.1W	
Consumption		
External DC Power Required	Class 2 or LPS power supply 24VDC (±20%)	
External DC Fower Required	25mA	
	2011/1	





Resistance Temperature Detector Input Expansion Module 6-ch,16-bit

I/O Terminal Blocks included. (See Terminal Block Connector Spec.table inside). Not compatible with the ZIPLink Wiring System

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.

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Do-more BRX Manual available at www.automationdirect.com/pn/doc/manual/BX-06RTD



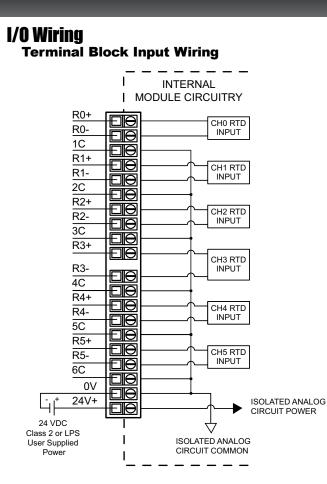
IMPORTANT!



Hot-Swapping Information Note: This device cannot be Hot Swapped.

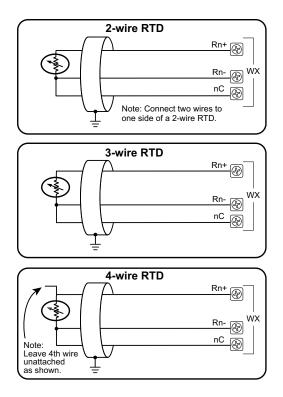
Document NameEdition/RevisionDateBX-06RTD1st Ed. RevA02/28/2024

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I/O Wiring

RTD Input Circuits



Module Installation To remove, depress To Install, remove 1 disengagement plungers Connector Cover at top and bottom of module 2 Align expansion connectors, insert, and listen for "Click" as the lock engages **Dimensional Information** _____3.25" [82.6mm] 1.08" [27.5mm] nnmmH

[82.6mm] (82.6mm] (82.6mm] (1.08" (2.5mm] (1.08" (1.08" (2.5mm] (1.08" (1.08" (1.08") (1.08" (1.08") (1.08" (1.08") (1.08") (1.08" (1.08") (1.00")

└─2X Ø #8 Thru all

I/O Wiring

Notes for maximum accuracy:

- 1. For 2-wire RTD, attach a third wire to module common.
- 2. R+, R-, and COM wires to an RTD must be equal length
- and type. Refer to RTD manufacturer's recommendations.
- 3. Do not use cable shield as sensing wire.
- When applicable, connect shield to RTD common only, otherwise connect to module common only. Do not connect shield to both ends.
- 5. Jumper unused inputs to common.

	Rn+	A
	Dn	W
4	RII-	Ð
	nC	M
		(U)

Terminal Block Connector Specifications							
Part Number	BX-RTB10 (Included)	BX-RTB10-1*	BX-RTB10-2*				
Connector Type	Screw Type-90°	Spring Clamp Type-180°	Screw Type-180°				
Pitch	3.81mm	3.81mm	3.81mm				
Recommended Screw torque	<1.77 lb·in (0.2 N·m)	N/A	<1.77 lb·in (0.2 N·m)				
Screwdriver Blade Width	2.5mm	2.5mm	2.5mm				
Equiv. Dinkle part #	EC381V-10P-BK	ESC381V-10-BK	EC381F-10P-BK				

*Sold separately