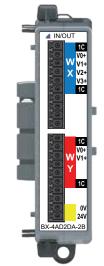
General Specifications				
Operating Temperature	0° to 60°C (32° to 140°F)			
Storage Temperature	-20° to 70°C (-4° to 158°F)			
Humidity	5 to 95% (non-condensing)			
Environmental Air	No corrosive gases permitted			
Vibration	IEC60068-2-6 (Test Fc)			
Shock	IEC60068-2-27 (Test Ea)			
Enclosure Type	Open Equipment			
Agency Approvals	UL 61010-1 and UL 61010-2-201 File E139594, Canada and USA			
	CE (EN 61131-2 EMC, EN 61010-1 and EN 61010-2-201 Safety)			
Noise Immunity	NEMA ICS3-304			
EU Directive	See the "EU Directive" topic in the BRX Help File.			
Weight	98g (3.4oz)			
Heat Dissipation	0.3W			
Software Version Required	Do-more! Designer Version 2.6, or later.			

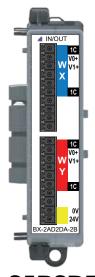
*Meets EMC and Safety requirements. See the D.O.C. for details.

Module Power					
Backplane Dower Concumption	BX-4AD2DA-2B	0.3W			
Backplane Power Consumption	BX-2AD2DA-2B	0.1W			
External DC Power Required	Class 2 or LPS power supply 24VDC (±20%) 50mA				

Analog Voltage Input/Output Specifications INPUT OUTPUT Points per Module – BX-4AD2DA-2B 4 2 Points per Module – BX-2AD2DA-2B 2 2 Commons Module Signal Range ±10 VDC, ±5 VDC, 0-5 VDC, 0-10 VDC (Default) Signal Resolution 16 bit. 15 bit (Default) Resolution Value of LSB (1 LSB = 1 count) 0-5 V = 76µV (least significant bit) ±10 V = 305μV ±5 V = 152μV 0-10 V = 152µV (@ 16 bit resolution) N/A Input Impedance >1MΩ BX-4AD2DA-2B 45ms (4 Channels) 2.5ms per enabled channel All Channel Update Rate BX-2AD2DA-2B 30ms (2 Channels) 2.5ms per enabled channel Voltage outputs sources/ Output type N/A sinking at 10mA Voltage outputs 0V (Unipolar Output Value in Fault Mode N/A or Bipolar) N/A Maximum Load Impedance 1ΚΩ Maximum Capacitive Load N/A 1000pF Allowed Load Type N/A Grounded Max Continuous Overload 15mA 15mA Sample Duration Time 100µs per channel N/A Low Pass 2nd order, Hardware Filter Characteristics N/A -3dB @ 15KHz Successive Successive Conversion Method approximation approximation Linearity Error (end to end) ±0.09% of range ±0.04% of range Stability and Repeatability (% full range ±0.06% ±0.03% after 10 minute warmup (typical) Full Scale Calibration Error ±0.08% of range (Max.) ±0.1% of range Offset Calibration Error ±0.1% of range ±0.04% of range (Max.) Accuracy vs. Temperature ±25PPM / °C maximun 0.15% of full range Maximum Inaccuracy 0.2% of range (over temp) Maximum Crosstalk -90dB, 1 LSB +3uV N/A Output Ripple 150uV/mA Output Settling Time N/A 200µs Channel to Backplane Isolation 1800VAC applied for 1 second Channel to Channel Isolation None Fast-acting 0.032A recommended

RX Expansion Module





BX-4AD2DA-2B BX-2AD2DA-2B

Analog Input/Output **Combo Expansion Module** 4-ch In, 2-ch Out, 0-5V, 0-10V, ±5V, ±10V

Analog Input/Output **Combo Expansion Module** 2-ch In, 2-ch Out, 0-5V, 0-10V, ±5V, ±10V

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

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 http://www.automationdirect.com/pn/doc/manual/ **BX-USER-M**



IMPORTANTI



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

Document Name	Edition/Revision	Date
BX-xAD2DA-2B	1st Ed. RevA	11/3/2020

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Tech Support 770-844-4200

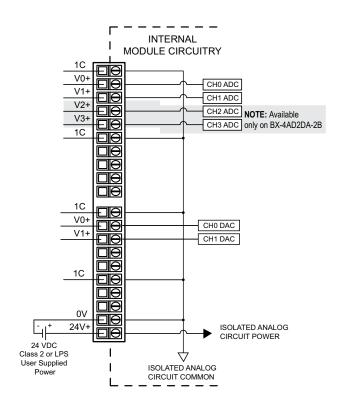
Loop Fusing (external)

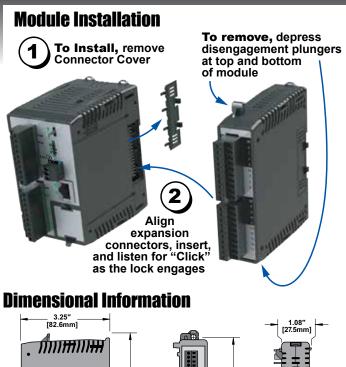
Your Automation Foundation!™

Connector Options Specifications			
BX-RTB10	Terminal Block Kit, 90-degree screw type. For use with BRX 10-point PLCs, BRX 16-point expansion modules and all analog and temperature expansion modules. Kit includes (2) 10-pin 3.8mm plugs.		
BX-RTB10-1	Terminal Block Kit, 180-degree spring clamp type. For use with BRX 10-point PLCs, BRX 16-point expansion modules. Kit includes (2) 10-pin 3.8mm plugs.		
BX-RTB10-2	Terminal Block Kit, 180-degree screw type. For use with BRX 10-point PLCs, BRX 16-point expansion modules and all analog and temperature expansion modules. Kit includes (2) 10-pin 3.8mm plugs.		
ZL-BXEM-CBL20	ZIP Link PLC I/O cable, 20-position terminal block to 24-pin connector, 24AWG, cable length 0.5 meter (1.6ft). For use with BRX 16-point expansion modules.		
ZL-BXEM-CBL20-1	ZIP Link PLC I/O cable, 20-position terminal block to 24-pin connector, 24AWG, cable length 1meter (3.3ft). For use with BRX 16-point expansion modules.		
ZL-BXEM-CBL20-2	ZIP Link PLC I/O cable, 20-position terminal block to 24-pin connector, 24AWG, cable length 2meter (6.6ft). For use with BRX 16-point expansion modules.		
ZL-BXEM-CBL20-1P	ZIP Link PLC I/O cable, 20-position terminal block to pigtail connection, 24AWG, cable length 1meter (3.3ft). For use with BRX 16-point expansion modules.		
ZL-BXEM-CBL20-2P	ZIP Link PLC I/O cable, 20-position terminal block to pigtail connection, 24AWG, cable length 2meter (6.6ft). For use with BRX 16-point expansion modules.		
ZL-RTB20	ZIPLink Two Level Feedthrough Module, 20-pole, 35mm, DIN mount.		
ZL-RTB20-1	ZIPLink Three Level Feedthrough Module, 20-pole, 35mm, DIN mount.		

Terminal Block Connector Specifications						
Part Number	BX-RTB10	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			

I/O Wiring Terminal Block Output Wiring

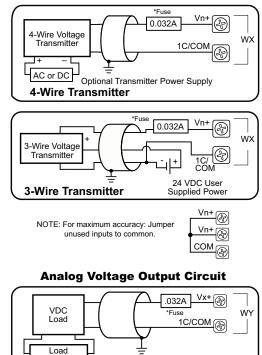




(27.5mm) (27

I/0 Wiring

Analog Voltage Input Circuits



*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.

Power Supply