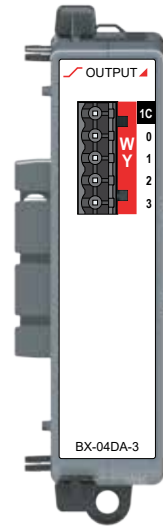
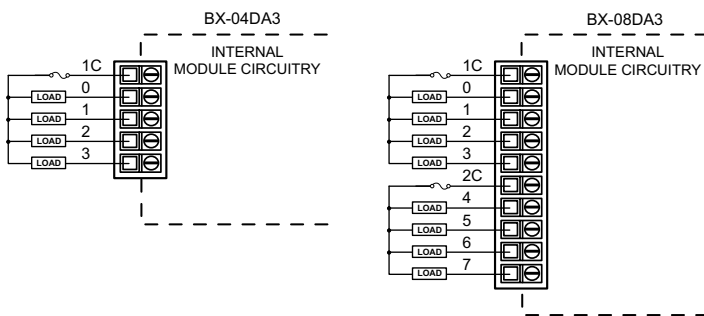
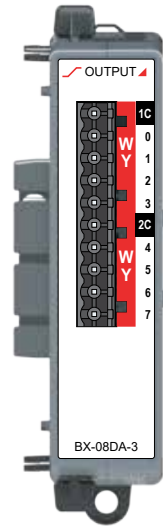


General Specifications		
Operating Temperature	0° to 60°C (32° to 140°F)	
Storage Temperature	-20° to 70°C (-4° to 158°F)	
Humidity	5 to 95% (non-condensing)	
Environmental Air	No corrosive gases permitted	
Vibration	IEC60068-2-6 (Test Fc)	
Shock	IEC60068-2-27 (Test Ea)	
Enclosure Type	Open Equipment	
Agency Approvals	UL61010-2-201 file E185989, 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	98g (3.5 oz)	
Heat Dissipation	BX-04DA-3	BX-08DA-3
	2.25 W	5.5W
Software Version Required	Do-more! Designer Version 2.7, or later.	

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



BX-04DA-3
Analog Output Expansion Module
 4-ch, ±20mA or ±10V



BX-08DA-3
Analog Output Expansion Module
 8-ch, ±20mA or ±10V

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

Analog Universal Current/Voltage Sinking Output Specifications

	BX-04DA-3	BX-08DA-3
Outputs per Module	4	8
Commons	1	2
Module Signal Output Range	0–20mA, 4–20mA, ±20mA, ±10 VDC, ±5 VDC, 0–5 VDC (Default), 0–10 VDC	
Signal Resolution	16-bit at ±10V or ±20ma	
Resolution Value of LSB	See user manual - BX-USER-M	
Output Type (Voltage)	Voltage outputs sourcing/sinking at 10mA (example 10V @ 1kΩ load).	
Output Type (Current)	Current Sinking/Sourcing up to 5V	
Output Value in Fault Mode	0V or 0mA (Unipolar or Bipolar)	
Minimum Voltage Load Impedance	1kΩ	
Maximum Continuous Overload	Indefinitely	
Maximum Current Load Impedance	250Ω	
All Channel Update Rate	1.0 ms	
Maximum Inaccuracy	±0.1% of HW full scale (65 counts)	
Maximum Full Scale Calibration Error	±0.1% of HW full scale (65 counts)	
Conversion Method	Amplified Divide-by-2 Resistor String	
Linearity Error (end to end)	±0.1% of HW full scale (65 counts)	
Output Stability and Repeatability	±0.02% of HW full scale (12 counts) after 10 minute warmup	
Output Settling Time	10µs	
Channel to Backplane Isolation	1500VAC applied for one second, 1C to 2C	
Channel to Channel Isolation	None	
Loop Fusing (External)	Fast-acting 0.032A recommended	
Backplane Power Consumption (Max)	BX-04DA-3	BX-08DA-3
	2.4 W	5 W

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>



IMPORTANT!



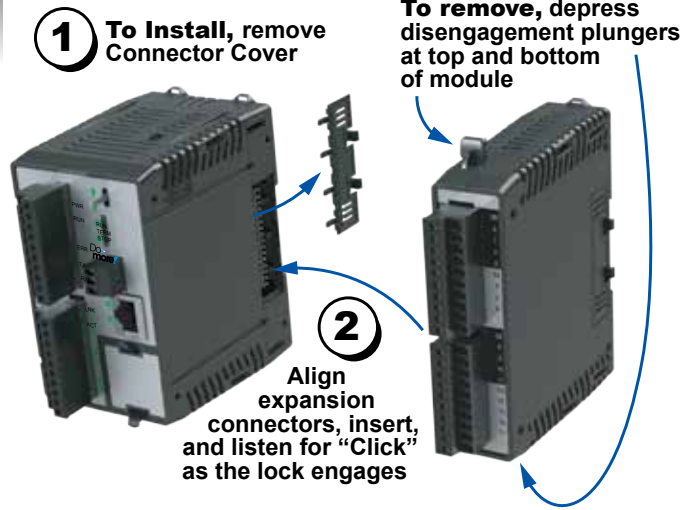
Hot-Swapping Information
Note: This device cannot be Hot Swapped.

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

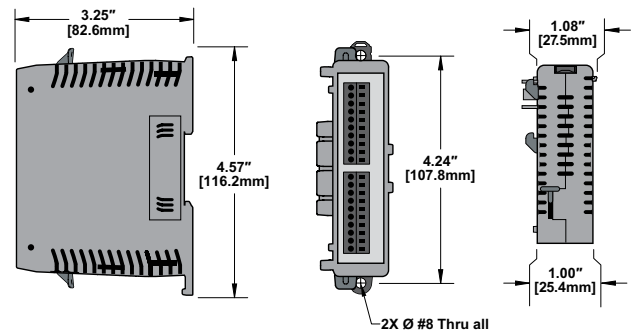
Connector Options – 4 and 8 point

BX-RTB05	Terminal Block, 90-degree screw type. For use with BRX 5-point, 8-point, and 12-point expansion modules.
BX-RTB05-1	Terminal Block, 180-degree spring clamp type. For use with BRX 5-point, 8-point, and 12-point expansion modules.
BX-RTB05-2	Terminal Block, 180-degree screw type. For use with BRX 5-point, 8-point, and 12-point expansion modules.
BX-RTB08	Terminal Block Kit, 90-degree screw type. For use with BRX 5-point, 8-point, and 12-point expansion modules. Kit includes (3) 5-pin 5mm plugs.
BX-RTB08-1	Terminal Block Kit, 180-degree spring clamp type. For use with BRX 5-point, 8-point, and 12-point expansion modules. Kit includes (3) 5-pin 5mm plugs.
BX-RTB08-2	Terminal Block Kit, 180-degree screw type. For use with BRX 5-point, 8-point, and 12-point expansion modules. Kit includes (3) 5-pin 5mm plugs.
ZL-BXEM-CBL10	ZIPLink PLC I/O cable, 10-position terminal block to 24-pin connector, 24AWG, cable length 0.5meter (1.6ft). For use with 8-point BRX expansion modules.
ZL-BXEM-CBL10-1	ZIPLink PLC I/O cable, 10-position terminal block to 24-pin connector, 24AWG, cable length 1meter (3.3ft). For use with 8-point BRX expansion modules.
ZL-BXEM-CBL10-2	ZIPLink PLC I/O cable, 10-position terminal block to 24-pin connector, 24AWG, cable length 2meter (6.6ft). For use with 8-point BRX expansion modules.
ZL-BXEM-CBL10-1P	ZIPLink PLC I/O cable, 10-position terminal block to pigtail connection, 24AWG, cable length 1meter (3.3ft). For use with 8-point BRX expansion modules.
ZL-BXEM-CBL10-2P	ZIPLink PLC I/O cable, 10-position terminal block to pigtail connection, 24AWG, cable length 2meter (6.6ft). For use with 8-point BRX 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.

Module Installation

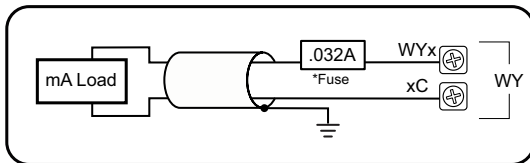


Dimensional Information

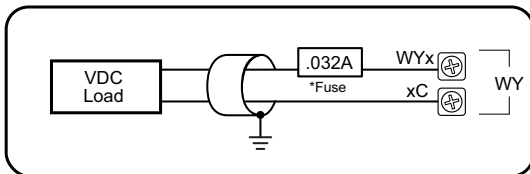


I/O Wiring

Analog Current Source Output Circuit



Analog Voltage Output Circuit



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

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

4 & 8 point Terminal Block Connector Specifications

Part Number	BX-RTB05 (single block)	BX-RTB05-1 (single block)	BX-RTB05-2 (single block)
	BX-RTB08 (set of 3 blocks)	BX-RTB08-1 (set of 3 blocks)	BX-RTB08-2 (set of 3 blocks)
Connector Type	Screw Type-90°	Spring Clamp Type-180°	Screw Type-180°
Wire Exit	180°	180°	180°
Pitch	5.0mm	5.0mm	5.0mm
Screw Size	M2.5	N/A	M2.5
Recommended Screw torque	< 3.98 lb·in (0.45 N·m)	N/A	< 3.98 lb·in (0.45 N·m)
Screwdriver Blade Width	3.5mm	3.5mm	3.5mm
Wire Gauge (Single Wire)	28-12 AWG	28-14 AWG	28-12 AWG
Wire Gauge (Two Wires)	28-16 AWG	28-16 AWG (Dual Wire Ferrule Required)	28-16 AWG
Wire Strip Length	0.3in (7.5mm)	0.37in (9.5mm)	0.3in (7.5mm)
Equiv. Dinkle part #	5ESDV-05P-BK	5ESDSR-05P-BK	5ESDF-05P-BK