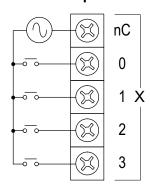
General Specifications			
Operating Temperature		0° to 60° C (32° to 140° F)	
Storage Temperature		-20° to 85° C (-4° to 185° F)	
Humidity		5 to 95% (non-condensing)	
Environmental Air		No corrosive gases permitted	
Vibration		IEC60068-2-6 (Test Fc)	
Shock		IEC60068-2-27 (Test Ea)	
Enclosure Type		Open Equipment	
Agency Approvals		UL61010-2 - UL File # E185989 Canada and USA	
		CE Compliant EN61131-2*	
Noise Immunity		NEMA ICS3-304	
EU Directive		See the "EU Directive" topic in the Help File	
Weight	BX-08NA	91g (3.2 oz)	
	BX-12NA	93g (3.3 oz)	
	BX-16NA	95g (3.4 oz)	
Software Version		Do-more! Designer 2.0 or later	

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

I/O Wiring

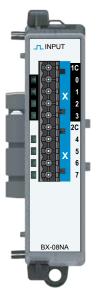
AC Input

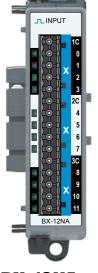


Discrete Input Specifications			
Input Type		AC	
	BX-08NA	8	
Inputs per Module	BX-12NA	12	
	BX-16NA	16	
	BX-08NA	2 (4 points/common) Isolated	
Commons	BX-12NA	3 (4 points/common) Isolated	
	BX-16NA	4 (4 points/common) Isolated	
Nominal Voltage Range		120–240 VAC	
Input Voltage Range		85–264 VAC	
Maximum Voltage		264 VAC RMS	
AC Frequency		47–63 Hz	
Input Impedance		15kΩ	
Input Current (typical)		9mA @ 120VAC, 13mA @ 220VAC	
ON Voltage Level		> 85VAC	
OFF Voltage Level		< 40VAC	
Status Indicators		Logic Side, Green	



BRX Expansion Module







Input Module 8-pt, 120-240 VAC

Input Module 12-pt, 120-240 VAC

Input Module 16-pt, 120-240 VAC

I/O Terminal Blocks sold separately.

(See Terminal Block Connection Options tables).

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!

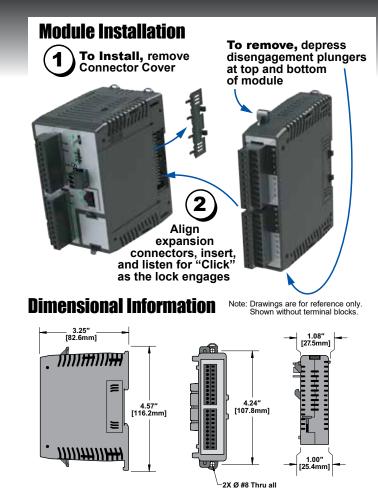


Hot-Swapping Information Note: This device cannot be Hot Swapped.

Document Name	Edition/Revision	Date
BX-xxNA	1st Ed. RevE	11/3/2020

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Connector O	ptions – 8 and 12 point
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	ZIP Link 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	ZIP Link 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	ZIP Link 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	ZIP Link 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	ZIP Link 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-BXEM-CBL15	ZIP Link PLC I/O cable, 15-position terminal block to 24-pin connector, 24AWG, cable length 0.5meter (1.6ft). For use with 5-point and 12-point BRX expansion modules.
ZL-BXEM-CBL15-1	ZIP Link PLC I/O cable, 15-position terminal block to 24-pin connector, 24AWG, cable length 1meter (3.3ft). For use with 5-point and 12-point BRX expansion modules.
ZL-BXEM-CBL15-2	ZIPLink PLC I/O cable, 15-position terminal block to 24-pin connector, 24AWG, cable length 2meter (6.6ft). For use with 5-point and 12-point BRX expansion modules.
ZL-BXEM-CBL15-1P	ZIPLink PLC I/O cable, 15-position terminal block to pigtail connection, 24AWG, cable length 1meter (3.3ft). For use with 5-point and 12-point BRX expansion modules.
ZL-BXEM-CBL15-2P	ZIP Link PLC I/O cable, 15-position terminal block to pigtail connection, 24AWG, cable length 2meter (6.6ft). For use with 5-point and 12-point BRX expansion modules.
ZL-RTB20	ZIP Link Two Level Feedthrough Module, 20-pole, 35mm, DIN mount.
ZL-RTB20-1	ZIP Link Three Level Feedthrough Module, 20-pole, 35mm, DIN mount.



Connector Options — 16 point		
BX-RTB10	Terminal Block Kit, 90-degree screw type. For use with BRX 10-point PLCs and BRX 16-point 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 and 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 and BRX 16-point expansion modules.Kit includes (2) 10-pin 3.8mm plugs.	
ZL-BXEM-CBL20	Z/P Link PLC I/O cable, 20-position terminal block to 24-pin connector, 24AWG, cable length 0.5meter (1.6ft). For use with 16-point BRX expansion modules.	
ZL-BXEM-CBL20-1	Z/PLink PLC I/O cable, 20-position terminal block to 24-pin connector, 24AWG, cable length 1meter (3.3ft). For use with 16-point BRX expansion modules.	
ZL-BXEM-CBL20-2	Z/PLink PLC I/O cable, 20-position terminal block to 24-pin connector, 24AWG, cable length 2meter (6.6ft). For use with 16-point BRX expansion modules.	
ZL-BXEM-CBL20-1P	Z/PLink PLC I/O cable, 20-position terminal block to pigtail connection, 24AWG, cable length 1meter (3.3ft). For use with 16-point BRX expansion modules.	
ZL-BXEM-CBL20-2P	ZIPLink PLC I/O cable, 20-position terminal block to pigtail connection, 24AWG, cable length 2meter (6.6ft). For use with 16-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.	

o and 12-poin	i Terminai E	lock Connector Sp	ecifications
Part Number	BX-RTB08	BX-RTB08-1	BX-RTB08-2
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
40			4.

16 point 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°
Wire Exit	180°	180°	180°
Pitch	3.81mm	3.81mm	3.81mm
Screw Size	M2	N/A	M2
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
Wire Gauge (Single Wire)	28-16 AWG	28-18 AWG	30-16 AWG
Wire Gauge (Two Wires)	28-18 AWG	30-20 AWG (Dual Wire Ferrule Required)	30-18 AWG
Wire Strip Length	0.24in (6mm)	0.35in (9mm)	0.26in (6.5mm)
Equiv. Dinkle part #	EC381V-10P-BK	ESC381V-10-BK	EC381F-10P-BK