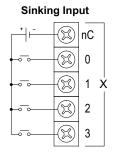
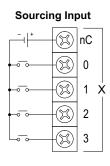
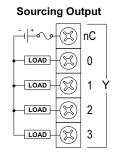
General Specifications Operating Temperature 0° to 60° C (32° to 140° F) Storage Temperature -20° to 85° C (-4° to 185° F) Humidity 5 to 95% (non-condensing) Environmental Air No corrosive gases permitted Vibration IEC60068-2-6 (Test Fc) Shock IEC60068-2-27 (Test Ea) Enclosure Type Open Equipment UL61010-2 - UL File # E185989 Canada and USA Agency Approvals CE Compliant EN61131-2* Noise Immunity NEMA ICS3-304 **EU** Directive See the "EU Directive" topic in the Help File Weight 91g (3.2 oz) Software Version Do-more! Designer v2.11 or later

I/O Wiring







Discrete Input Specifications				
Input Type	Sink/Source			
Inputs per Module	8			
Commons	2			
Nominal Voltage Range	48 VDC			
Input Voltage Range	40-56 VDC			
Maximum Voltage	56 VDC			
Input Impedance	16kΩ @ 48 VDC			
Input Current (typical)	3 mA @ 48 VDC			
Maximum Input Current	5 mA @ 48 VDC			
ON Voltage Level	> 30 VDC			
OFF Voltage Level	< 15 VDC			
Status Indicators	Logic Side, Green			

Discrete Output Specifications			
Outputs Type	Sourcing		
Outputs per Module	8		
Commons	2		
Maximum Current per Common	4A		
Nominal Voltage Range	48–60 VDC		
Operating Voltage Range	20-60 VDC		
Maximum Voltage	60 VDC		
Minimum Output Current	1 mA		
Maximum Output Current	1A per point		
Maximum Leakage Current	10μΑ		
Status Indicators	Logic Side, Green		

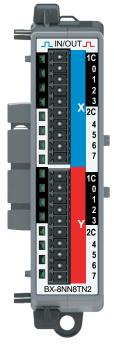
VAUTOMATION DIRECT



BRX Expansion Module

BX-8NN8TN2

Combination Discrete Module In: 8-pt, 48 VDC, Sinking/Sourcing Out: 8-pt, 48 VDC, Sourcing



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-BX-8NNTN2



IMPORTANT!



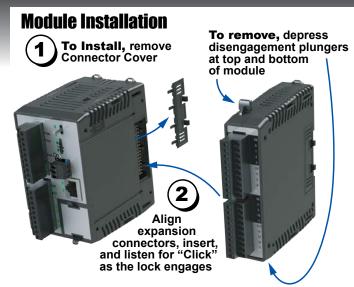
Hot-Swapping Information Note: This device cannot be Hot-Swapped.

Document Name	Edition/Revision	Date
BX-8NNTN2	1st Ed.	8/27/2025

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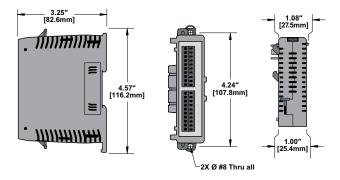
^{*}Meets EMC and Safety requirements. See the D.O.C. for details.

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	ZIPL ink PLC I/O cable, 20-position terminal block to 24-pin connector, 24AWG, cable length 0.5m (1.6ft). For use with 16-point BRX expansion modules.
ZL-BXEM-CBL20-1	ZIPL ink PLC I/O cable, 20-position terminal block to 24-pin connector, 24AWG, cable length 1m (3.3ft). For use with 16-point BRX expansion modules.
ZL-BXEM-CBL20-2	ZIPL ink PLC I/O cable, 20-position terminal block to 24-pin connector, 24AWG, cable length 2m (6.6ft). For use with 16-point BRX expansion modules.
ZL-BXEM-CBL20-1P	ZIP Link PLC I/O cable, 20-position terminal block to pigtail connection, 24AWG, cable length 1m (3.3ft). For use with 16-point BRX expansion modules.
ZL-BXEM-CBL20-2P	ZIP Link PLC I/O cable, 20-position terminal block to pigtail connection, 24AWG, cable length 2m (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.



Dimensional Information

Note: Drawings are for reference only. Shown without terminal blocks.



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		