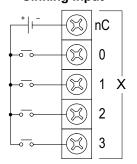
General Specifications			
Operating Temperature		0° to 60° C (32° to 140° F)	
Storage Temperature		-20° to 85° C (-4° to 185° F)	
Humidity		5 to 95% (non-condensing)	
Environmental Air		No corrosive gases permitted	
Vibration		IEC60068-2-6 (Test Fc)	
Shock		IEC60068-2-27 (Test Ea)	
Enclosure Type		Open 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-08NF3	91g (3.2 oz)	
	BX-16NF3	85g (3 oz)	
Software Version	BX-08NF3	Do-more! Designer 2.0 or later	
	BX-16NF3	Do-more! Designer 2.8 or later	

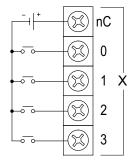
^{*}Meets EMC and Safety requirements. See the D.O.C. for details.

I/O Wiring

Sinking Input



Sourcing Input

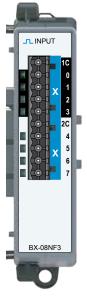


Discrete Inpu	ıt Speci	fications	
Input Type	BX-08NF3	Sink/Source	
input Type	BX-16NF3	Sink/Source	
Innuta nas Madula	BX-08NF3	8	
Inputs per Module	BX-16NF3	16	
Commons	BX-08NF3	2 (4 points/common) Isolated	
Commons	BX-16NF3	4 (4 points/common) Isolated	
Nominal Voltage Range		3–5 VDC	
Input Voltage Range		2–6 VDC	
Maximum Voltage		6VDC	
Input Impedance		870Ω @ 5VDC	
Input Current (typical)		6mA @ 5VDC	
Maximum Input Current		8mA @ 6VDC	
ON Voltage Level		> 2.0 VDC	
OFF Voltage Level		< 0.8 VDC	
Minimum ON Current		1.2 mA (2.0V required to guarantee ON state)	
Maximum OFF Curren	ıt	0.5 mA	
Status Indicators		Logic Side, Green	
OFF to ON Response		2ms	
ON to OFF Response		2ms	
BRX System Power	BX-08NF3	0.2 W	
Budget	BX16NF3	0.3 W	
Heat Disconstion	BX-08NF3	0.6 W	
Heat Dissapation	BX-16NF3	1.1 W	

VAUTOMATION DIRECT



Expansion Module





BX-08NF3

Expansion Module 8-pt, 3–5 VDC Sink/Source **BX-16NF3**Expansion Module

16-pt, 3-5 VDC Sink/Source

ZIPLink Connections system available for this module.

(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!



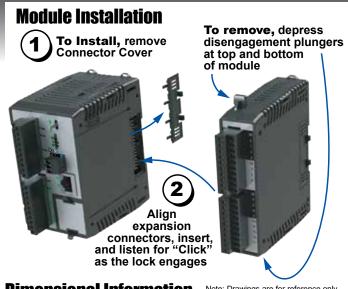
Hot-Swapping Information

Note: This device cannot be Hot Swapped.

Document Name	Edition/Revision	Date
BX-xxNF3	1st Ed. RevA	11/3/2020

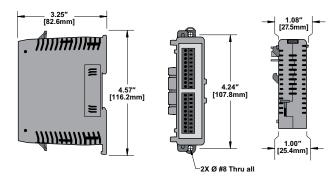
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Connector O	ptions — 8 point	
BX-RTB08	Terminal Block Kit, 90-degree screw type. For use with BRX 5-point, 8-point, and 12-point expansion modules. Kit includes (3) 5-pin 5mm plugs.	
BX-RTB08-1	Terminal Block Kit, 180-degree spring clamp type. For 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-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.	



Dimensional Information

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



Connector C	ptions — 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	ZIP 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	ZIP Link 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	ZIP Link 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	ZIP Link 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.

8 point Terminal Block Connector Specifications			
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

16 point Term	inal Block C	onnector Specif	fications
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