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-08TA	153g (5.4 oz)
	BX-12TA	158g (5.6 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

Triac Output

AUTOMATIONDIRECT.com

BRX ▶ Expansion Module
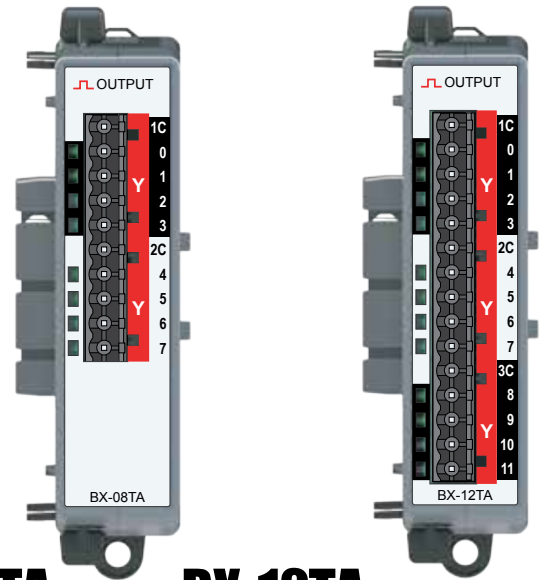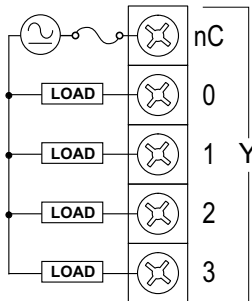
BX-08TA
Output Module
8-pt, 120–240 VAC

BX-12TA
Output Module
12-pt, 120–240 VAC

I/O Terminal Blocks sold separately.
(See Terminal Block Connection Options tables).

Discrete Output Specifications

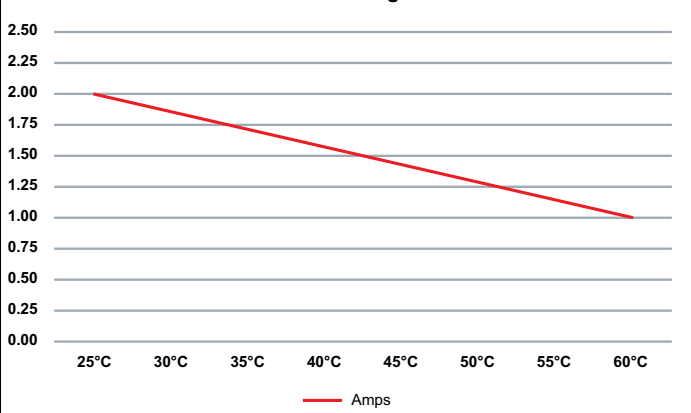| Output Type		Triac
Outputs per Module	BX-08TA	8
	BX-12TA	12
Commons	BX-08TA	2 (4 points/common) Isolated
	BX-12TA	3 (4 points/common) Isolated
Maximum current per common		2A
Nominal Voltage Range		120–240 VAC
Operating Voltage Range		5–258 VAC
Maximum Voltage		258VAC
Maximum Output Current		0.5A across temp range
Current Derating		Linear by Common: 2A at 25°C - 1A at 60°C
Status Indicators		Logic Side, Green

BX-xxTA Derating Chart

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-xxTA	1st Ed. RevF	11/3/2020

Connector Options — 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	*ZIP*Link 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	*ZIP*Link 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.

Module Installation

① **To Install,** remove Connector Cover

To remove, depress disengagement plungers at top and bottom of module

② **Align expansion connectors, insert, and listen for "Click" as the lock engages**
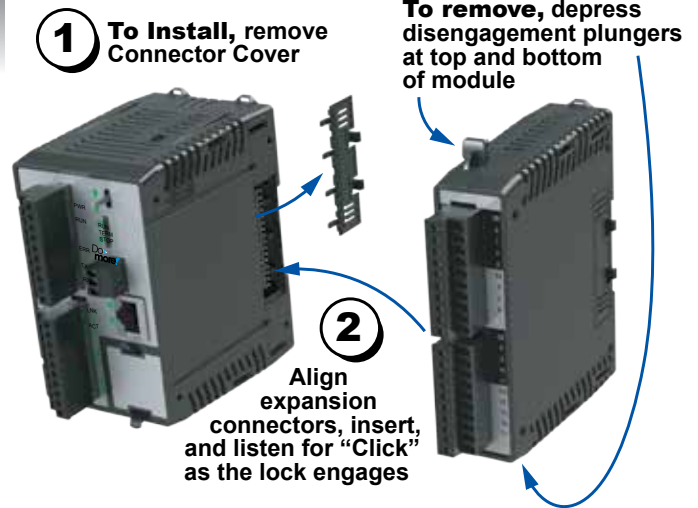
Dimensional Information

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

3.25″ [82.6mm]

4.57″ [116.2mm]

2X Ø #8 Thru all

4.24″ [107.8mm]

1.08″ [27.5mm]

1.00″ [25.4mm]
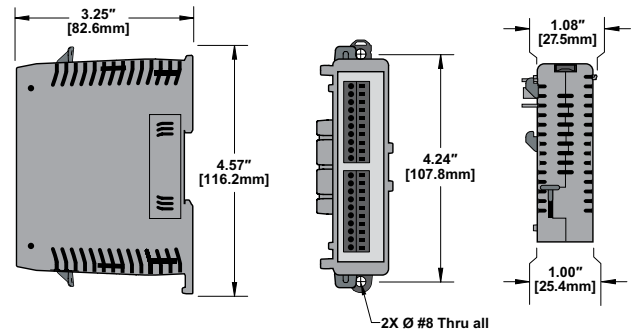
8 and 12 point Terminal Block Connector Specifications

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