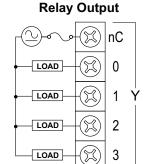
General Specifications				
Operating Temperature		0° to 60° C (32° to 140° F)		
Storage Temperature		-20° to 85° C (-4° to 185° F)		
Humidity		5 to 95% (non-condensing)		
Environmental Air		No corrosive gases permitted		
Vibration		IEC60068-2-6 (Test Fc)		
Shock		IEC60068-2-27 (Test Ea)		
Enclosure Type		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-08TR	114g (4 oz)		
	BX-12TR	129g (4.6 oz)		
	BX-16TR	157g (5.5 oz)		
Software Version		Do-more! Designer 2.0 or later		

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

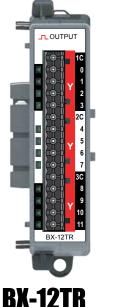
I/O Wiring



Discrete Output Specifications		
Output Type		Relay Form A (SPST)
Outputs per Module	BX-08TR	8
	BX-12TR	12
	BX-16TR	16
	BX-08TR	2 (4 points/common) Isolated
Commons	BX-12TR	3 (4 points/common) Isolated
	BX-16TR	4 (4 points/common) Isolated
Maximum current per common		8A
Nominal Voltage Range		5-48 VDC, 24-240 VAC
Operating Voltage Range		5–60 VDC, 5–264 VAC
Maximum Voltage		60VDC, 264VAC
Minimum Output Current		0.1 mA @24VDC/DC
Maximum Output Current		2A
Maximum Leakage Current		1µA (DC), 300µA (AC) due to RC snubber
Maximum Switching Frequency		10Hz
Status Indicators		Logic Side, Green

🗲 Expansion Module RR)







BX-08TR Output Module 8-pt,

Relay Form A (SPST)

Output Module 12-pt, Output Module 16-pt, Relay Form A (SPST) Relay Form A (SPST)

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!



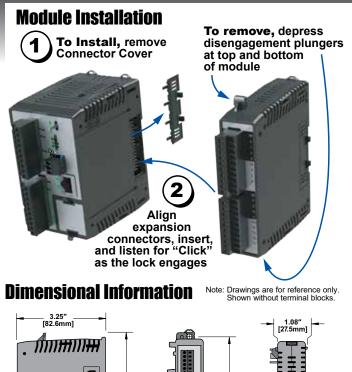
Note: This device cannot be Hot Swapped.

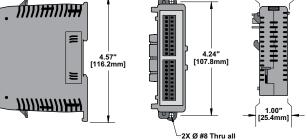
Document Name	Edition/Revision	Date
BX-xxTR	1st Ed. RevF	11/3/2020

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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	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	ZIPLink Two Level Feedthrough Module, 20-pole, 35mm, DIN mount.
ZL-RTB20-1	ZIPLink Three Level Feedthrough Module, 20-pole, 35mm, DIN mount.





8 and 12 point	Terminal B	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	
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	

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	ZIP Link 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	ZIP Link Three Level Feedthrough Module, 20-pole, 35mm, DIN mount.

Connector Options – 16 point

28-18 AWG

30-20 AWG

Required)

0.35in (9mm)

ESC381V-10-BK

(Dual Wire Ferrule

30-16 AWG

30-18 AWG

0.26in (6.5mm)

EC381F-10P-BK

28-16 AWG

28-18 AWG

0.24in (6mm)

EC381V-10P-BK

Wire Gauge (Single Wire)

Wire Gauge

(Two Wires)

Wire Strip Length

Equiv. Dinkle part #