

General Specifications

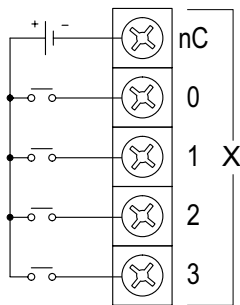
Operating Temperature	0° to 60° C (32° to 140° F)
Storage Temperature	-20° to 85° C (-4° to 185° F)
Humidity	5 to 95% (non-condensing)
Environmental Air	No corrosive gases permitted
Vibration	IEC60068-2-6 (Test Fc)
Shock	IEC60068-2-27 (Test Ea)
Enclosure Type	Open Equipment
Agency Approvals	UL61010-2 - 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	107g (3.8 oz)

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

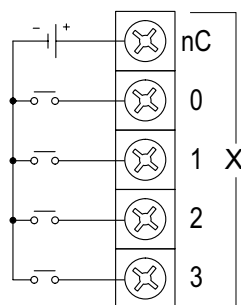
I/O Wiring

Discrete Input Wiring

Sinking Input



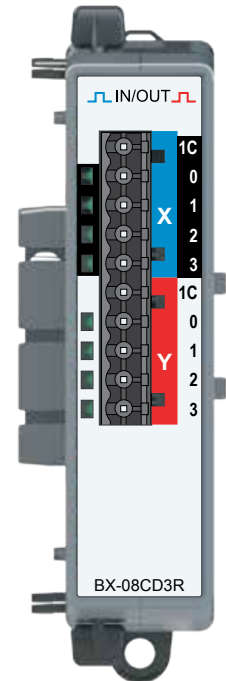
Sourcing Input



BX-08CD3R

Combination Discrete Expansion Module

In – 4-pt, 12–24 VDC,
Sink/Source,
Out – 4-pt,
Relay Form A (SPST)



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

Discrete Input Specifications

Input Type	Sink/Source
Inputs per Module	4
Nominal Voltage Rating	12–24 VDC
Input Voltage Range	9–30 VDC
Maximum Voltage	30VDC
Commons	1 (4 points/common)
Input Current (typical)	8mA @ 24VDC
Maximum Input Current	12mA @ 30VDC
Input Impedance	3kΩ @ 24VDC
ON Voltage Level	> 9.0 VDC
OFF Voltage Level	< 2.0 VDC
Status Indicators	Logic Side, Green

Discrete Output Specifications

Outputs Type	Relay Form A, SPST
Outputs per Module	4
Commons	1 (4 points/common) Isolated
Maximum Current per Common	8A
Nominal Voltages	5–48 VDC, 24–240 VAC
Operating Voltage Range	5–60 VDC, 18–264 VAC
Maximum Voltage	60VDC, 264VAC
Minimum Output Current	0.1mA @24VDC
Maximum Output Current	2A
Maximum Leakage Current	1μA
Maximum Switching Frequency	10Hz
Status Indicators	Logic Side, Green

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.

This publication is based on information that was available at the time it was printed. At AutomationDirect.com® we constantly strive to improve our products and services, so we reserve the right to make changes to the products and/or publications at any time without notice and without any obligation. This publication may also discuss features that may not be available in certain revisions of the product.

Do-more BRX Manual available at www.automationdirect.com/pn/doc/manual/BX-08CD3R



IMPORTANT!



Hot-Swapping Information

Note: This device cannot be Hot Swapped.

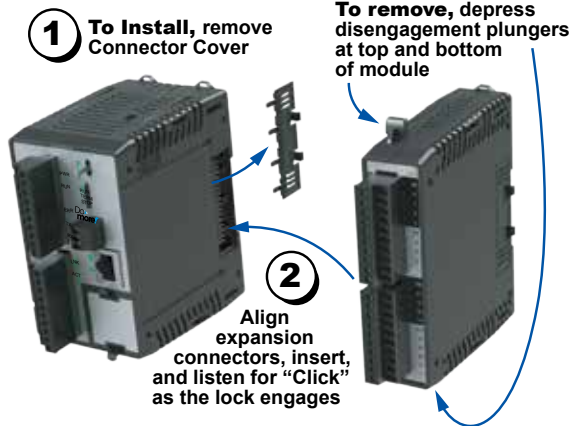
Document Name	Edition/Revision	Date
BX-08CD3R	1st Ed. RevB	5/18/2017

Copyright 2017, AutomationDirect.com Incorporated/All Rights Reserved Worldwide.

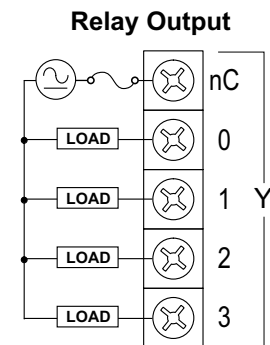
Connector Options – 8 point

BX-RTB08	Terminal Block Kit, 90-degree screw type. For use with BRX 5-point, 8-point, and 12-point discrete 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 discrete 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 discrete expansion modules. Kit includes (3) 5-pin 5mm plugs.
ZL-BXEM-CBL10	ZIPLink 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 discrete expansion modules.
ZL-BXEM-CBL10-1	ZIPLink PLC I/O cable, 10-position terminal block to 24-pin connector, 24AWG, cable length 1meter (3.3ft). For use with 8-point BRX discrete expansion modules.
ZL-BXEM-CBL10-2	ZIPLink PLC I/O cable, 10-position terminal block to 24-pin connector, 24AWG, cable length 2meter (6.6ft). For use with 8-point BRX discrete expansion modules.
ZL-BXEM-CBL10-1P	ZIPLink PLC I/O cable, 10-position terminal block to pigtail connection, 24AWG, cable length 1meter (3.3ft). For use with 8-point BRX discrete expansion modules.
ZL-BXEM-CBL10-2P	ZIPLink PLC I/O cable, 10-position terminal block to pigtail connection, 24AWG, cable length 2meter (6.6ft). For use with 8-point BRX discrete 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.

Module Installation



I/O Wiring Discrete Output Wiring



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

Dimensional Information

