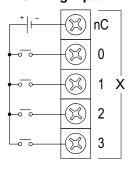
General Specifications				
Operating Temperature	0° to 60° C (32° to 140° F)			
Storage Temperature	-20° to 85° C (-4° to 185° F)			
Humidity	5 to 95% (non-condensing)			
Environmental Air	No corrosive gases permitted			
Vibration	IEC60068-2-6 (Test Fc)			
Shock	IEC60068-2-27 (Test Ea)			
Enclosure Type	Open Equipment			
Agency Approvals	UL61010-2 - UL File # E185989 Canada and USA			
Agency Approvals	CE Compliant EN61131-2*			
Noise Immunity	NEMA ICS3-304			
EU Directive	See the "EU Directive" topic in the Help File			
Weight	94g (3.3 oz)			
Software Version	Do-more! Designer 2.8 or later			

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

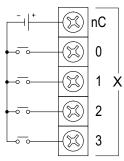
Discrete Input Specifications				
Input Type	Sink/Source			
Total Inputs per Module	8			
Commons	2			
Nominal Voltage Rating	3-5 VDC			
Input Voltage Range	2-6 VDC			
Maximum Voltage	6 VDC			
Input Impedance	870Ω @ 5VDC			
Input Current (typical)	6mA @ 5VDC			
Maximum Input Current	8mA @ 6VDC			
ON Voltage 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 Current	0.5 mA			
OFF to ON Response	2ms			
ON to OFF Response	2ms			

I/O Wiring

Sinking Input



Sourcing Input



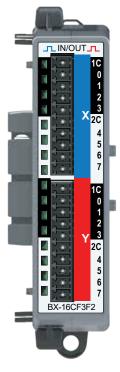
AUTOMATION DIRECT



BRX Expansion Module

BX-16CF3F2

Combination Discrete Module In - 8-pt, 3-5 VDC, Sink/Source, Out - 8-pt, 3-5 VDC, Sourcing



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 www.automationdirect.com/pn/doc/manual/ BX-16CF3F2



IMPORTANT!



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

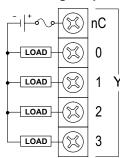
Document Name	Edition/Revision	Date
BX-16CF3F2	1st Ed. RevA	11/3/2020

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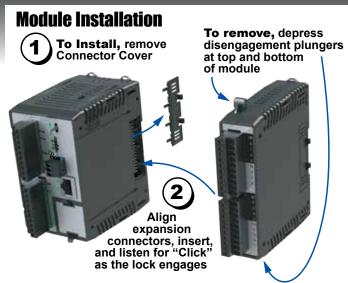
Discrete Output Specifications				
Output Type	Sourcing			
Outputs per Module	8			
Commons	2			
Maximum Current per Common	96mA			
Nominal Voltage	3.3-5 VDC			
Operating Voltage Range	1.65VDC-5.5VDC			
Peak Voltage	5.5VDC			
Minimum Output Current	0μΑ			
Maximum Output Current	24mA per output, no derating over temperature range			
Maximum Leakage Current	10μΑ			
ON Voltage Drop	0.05 VDC			
Fuses, Overcurrent Protection	N/A			
OFF-ON Response	< 5ms			
ON-OFF Response	< 2ms			
Status Indicators	Logic Side, Green			
Backplane Power Consumption	1.0 W			
Heat Dissipation	1.5 W			

I/O Wiring

Sourcing Output

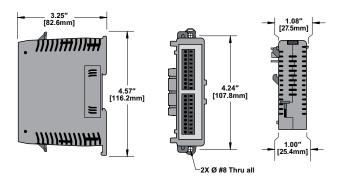


Connector Options — 16 point			
BX-RTB10	Terminal Block Kit, 90-degree screw type. For use with BRX 10-point PLCs and BRX 16-point expansion modules.Kit includes (2) 10-pin 3.8mm plugs.		
BX-RTB10-1	Terminal Block Kit, 180-degree spring clamp type. For use with BRX 10-point PLCs and BRX 16-point expansion 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	ZIPLink 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	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	