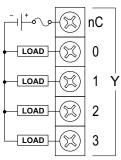
General Specifications				
Operating Temperature	0° to 60° C (32° to 140° F)			
Storage Temperature	-20° to 85° C (-4° to 185° F)			
Humidity	5 to 95% (non-condensing)			
Environmental Air	No corrosive gases permitted			
Vibration	IEC60068-2-6 (Test Fc)			
Shock	IEC60068-2-27 (Test Ea)			
Enclosure Type	Open Equipment			
Agency Approvals	UL61010-2 - UL File # E185989 Canada and USA			
	CE Compliant EN61131-2*			
Noise Immunity	nity NEMA ICS3-304			
EU Directive	See the "EU Directive" topic in the Help File			
Weight	95g (3.4 oz)			
Software Version	Do-more! Designer v2.11 or later			

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

I/O Wiring

Sourcing Output



Discrete Output Specifications					
Output Type		Sourcing			
Outputs per Module		16			
Commons		4 (4 points/common) Isolated			
Maximum Current per Common		8A			
Nominal Voltage Range		12–24 VDC			
Operating Voltage Range		5–36 VDC			
Maximum Voltage		36 VDC			
Minimum Output Current		350 mA for accurate fault reporting, 0.1 mA @ 24 VDC			
Maximum Output Current		2A/point at 0-40°C to 1A at 60°C			
Maximum Inrush Current		10A for 50ms			
Maximum Leakage Current		20μΑ			
Status Indicators		Logic Side, Green			
Protection		Overcurrent and Overtemperature			
Diagnostic Data		Protection or Open/Low Load			

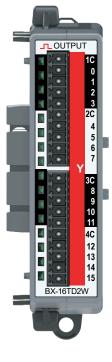
NOTE: When a configured fault condition is detected by an output, its associated input will come ON: when the fault is cleared the input will automatically go OFF. Latching a fault condition requires additional ladder logic.

AUTOMATION DIRECT EXPANSION Module



BX-16TD2W

Output Module 16 pt, 12-24 VDC with Diagnostics Sourcing



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.

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 http://www.automationdirect.com/pn/doc/manual/ BX-16TD2W



IMPORTANT!

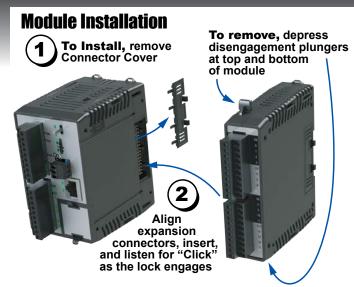


Hot-Swapping Information Note: This device cannot be Hot-Swapped.

	/Revision Date
BX-16TD2W 1st Ed	l. 8/27/2025

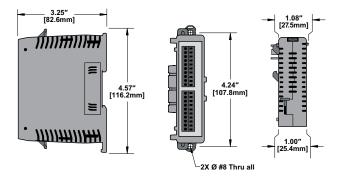
Copyright 2025, AutomationDirect.com Incorporated/All Rights Reserved Worldwide.

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	ZIPL ink PLC I/O cable, 20-position terminal block to 24-pin connector, 24AWG, cable length 0.5m (1.6ft). For use with 16-point BRX expansion modules.
ZL-BXEM-CBL20-1	ZIPL ink PLC I/O cable, 20-position terminal block to 24-pin connector, 24AWG, cable length 1m (3.3ft). For use with 16-point BRX expansion modules.
ZL-BXEM-CBL20-2	ZIPL ink PLC I/O cable, 20-position terminal block to 24-pin connector, 24AWG, cable length 2m (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 1m (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 2m (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		