BRX Wiring Termination Options

Terminal Block Connectors

The terminal block connectors are provided in kits of multiple connectors that are ordered as a single part number. There are 2 different types of kits to choose from; one kit for the five (5), eight (8) and 12-point discrete, and one kit for the analog modules and 16-point discrete modules. The five (5), eight (8) and 12-point discrete module kits each have (3) 5-pin 5mm connectors. The 8-point modules will use only 2 of the 5-pin connectors.

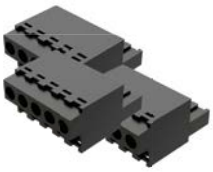
The five (5) and 12-point modules will use all three connectors. The analog and 16-point digital module kits include (2) 10-pin 3.81 mm connectors.

Terminal Block Connectors, 5, 8 and 12-Point Discrete Modules

Terminal Block Kits for 5-point, 8-point and 12-point Expansion Modules

BX-RTB08 (Kit - 3 pieces)

BX-RTB08-1 (Kit - 3 pieces)



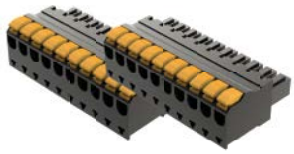
BX-RTB08-2 (Kit - 3 pieces)

Terminal Block Specifications 5-, 8- & 12-Point Type			
Part Number Single Block Set of 3 Blocks	***BX-RTB05 BX-RTB08***	***BX-RTB05-1 BX-RTB08-1***	***BX-RTB05-2 BX-RTB08-2***
Price (Single Block)	$8.50	$7.00	$8.00
Price (Kit)	$15.00	$14.50	$15.00
Connector Type	Screw Type - 90-degree	Spring Clamp Type - 180-degree	Screw Type - 180-degree
Wire Exit	180-degree	180-degree	180-degree
Pitch	5.0 mm	5.0 mm	5.0 mm
Screw Size	M2.5	N/A	M2.5
Screw Torque Recommended	< 3.98 lb·in (0.45 N·m)	N/A	< 3.98 lb·in (0.45 N·m)
Screwdriver Blade Width	3.5 mm	3.5 mm	3.5 mm
Wire Gauge (Single Wire)	28–12 AWG	28–14 AWG	28–12 AWG
Wire Gauge (Dual Wire)	28–16 AWG	28–16 AWG (Dual Wire Ferrule Required)	28–16 AWG
Wire Strip Length	0.3 in (7.5 mm)	0.37 in (9.5 mm)	0.3 in (7.5 mm)
Equiv. Dinkle P/N	5ESDV-05P-BK	5ESDSR-05P-BK	5ESDF-05P-BK

Terminal Block Connectors, Analog Modules and 16-Point Discrete Modules

Terminal Block Kits for Analog and 16-point Discrete Expansion Modules

BX-RTB10 (Kit - 2 pieces)



BX-RTB10-1 (Kit - 2 pieces)

BX-RTB10-2 (Kit - 2 pieces)

Terminal Block Specifications 16-Point Type			
Part Number	***BX-RTB10***	***BX-RTB10-1***	***BX-RTB10-2***
Price (Kit)	$21.50	$24.00	$22.50
Connector Type	Screw Type 90-degree	Spring Clamp Type 180-degree	Screw Type 180-degree
Wire Exit	180-degree	180-degree	180-degree
Pitch	3.81 mm	3.81 mm	3.81 mm
Screw Size	M2	N/A	M2
Screw Torque Recommended	<1.77 lb·in (0.2 N·m)	N/A	<1.77 lb·in (0.2 N·m)
Screwdriver Blade Width	2.5 mm	2.5 mm	2.5 mm
Wire Gauge (Single Wire)	28–16 AWG	26–18 AWG	30–16 AWG
Wire Gauge (Dual Wire)	28–18 AWG	30–20 AWG (Dual Wire Ferrule Required)	30–18 AWG
Wire Strip Length	0.24 in (6mm)	0.35 in (9mm)	0.26 in (6.5 mm)
Equiv. Dinkle P/N	EC381V-10P-BK	ESC381V-10-BK	EC381F-10P-BK

NOTE: BX-RTB10 terminal blocks are included with Temperature Input modules.

BRX Wiring Termination Options

*ZIP*Link Wiring System

BRX expansion modules can be quickly connected to convenient ***ZIP***Link remote terminal blocks for ease of wiring I/O devices. Your ***ZIP***Link selection is dependent on the number of expansion module terminal points. The following tables list the connector options.

8-Point BRX Discrete Expansion Module *ZIP*Link Selector					
Expansion Module Part No.	***ZIPLink Module***	***ZIPLink Module Part No.***	***Qty Needed***	***ZIPLink Cable Part No.****	***Qty Needed***
BX-08ND3	Feedthrough	ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact)	1	ZL-BXEM-CBL10 ZL-BXEM-CBL10-1 ZL-BXEM-CBL10-2	1
BX-08NF3					
BX-08NA					
BX-08NB					
BX-08TD1					
BX-08TD2					
BX-08TR*					
BX-08TRZ*					
BX-08TA					
BX-08CD3R*					

* Select cable length: Blank = 0.5 m, -1 = 1.0m, -2 = 2.0m.
Available pigtail cables: ZL-BXEM-CBL10-1P = 1.0 m, ZL-BXEM-CBL10-2P = 2.0 m.
** The relay outputs are derated not to exceed 2A per common when used with the ***ZIP***Link wiring system.

12 & 5-Point BRX Discrete Expansion Module *ZIP*Link Selector					
Expansion Module Part No.	***ZIPLink Module***	***ZIPLink Module Part No.***	***Qty Needed***	***ZIPLink Cable Part No.****	***Qty Needed***
BX-12ND3	Feedthrough	ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact)	1	ZL-BXEM-CBL15 ZL-BXEM-CBL15-1 ZL-BXEM-CBL15-2	1
BX-12NA					
BX-12NB					
BX-12TD1					
BX-12TD2					
BX-12TR*					
BX-05TRS					
BX-12TA					
BX-12CD3D1					
BX-12CD3D2					

* Select cable length: Blank = 0.5 m, -1 = 1.0m, -2 = 2.0m.
Available pigtail cables: ZL-BXEM-CBL15-1P = 1.0 m, ZL-BXEM-CBL15-2P = 2.0 m.
** The relay outputs are derated not to exceed 2A per common when used with the ***ZIP***Link wiring system.

BRX Wiring Termination Options

16-Point BRX Discrete Expansion Module *ZIP*Link Selector					
Expansion Module Part No.	***ZIPLink Module***	***ZIPLink Module Part No.***	***Qty Needed***	***ZIPLink Cable Part No.****	***Qty Needed***
BX-16ND3	Sensor	ZL-LTB16-24-1	1	ZL-BXEM-CBL20 ZL-BXEM-CBL20-1 ZL-BXEM-CBL20-2	1
	Feedthrough	ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact)	1		
BX-16NF3	Feedthrough				
BX-16NA					
BX-16NB					
BX-16TD1	Feedthrough				
	Relay (Sourcing)	ZL-RRL16-24-1, ZL-RRL16W-24-1, ZL-RRL16F-24-1, ZL-RRL16HDF-24-1	1		
BX-16TD2	Relay (Sinking)	ZL-RRL16-24-2, ZL-RRL16W-24-2, ZL-RRL16F-24-2, ZL-RRL16HDF-24-2	1		
	Feedthrough	ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact)	1		
BX-16TF2	Feedthrough				
BX-16TR*					
BX-16TRZ*					
BX-16CD3D1					
BX-16CD3D2					
BX-16CF3F2					

* Select cable length: Blank = 0.5 m, -1 = 1.0m, -2 = 2.0m.
Available pigtail cables: ZL-BXEM-CBL20-1P = 1.0 m, ZL-BXEM-CBL20-2P = 2.0 m.
** The relay outputs are derated not to exceed 2A per common when used with the *ZIP*Link wiring system.

32-Point BRX Discrete Expansion Module *ZIP*Link Selector					
Expansion Module Part No.	***ZIPLink Module***	***ZIPLink Module Part No.***	***Qty Needed***	***ZIPLink Cable Part No.****	***Qty Needed***
BX-32ND3	Sensor	ZL-LTB32-24-1	1	ZL-D24-CBL40 ZL-D24-CBL40-1 ZL-D24-CBL40-2	1
	Feedthrough	ZL-RTB40 (Standard) OR ZL-RTB40-1 (Compact)	1		
BX-32TD1	Feedthrough				
BX-32TD2					

* Select cable length: Blank = 0.5 m, -1 = 1.0m, -2 = 2.0m.
Available pigtail cables: ZL-D24-CBL40-1P = 1.0 m, ZL-D24-CBL40-2P = 2.0 m.
Suffix -X indicates 45° cable connector angle. Non -X indicates 180° cable connector angle.

16-Point BRX High Speed Expansion Module *ZIP*Link Selector					
Expansion Module Part No.	***ZIPLink Module***	***ZIPLink Module Part No.***	***Qty Needed***	***ZIPLink Cable Part No.****	***Qty Needed***
BX-HSIO4	Feedthrough	ZL-RTB40 (Standard) OR ZL-RTB40-1 (Compact)	1	ZL-BX-CBL40-S ZL-BX-CBL40-1S	1

BRX Wiring Termination Options

BRX Analog and Temperature Expansion Module *ZIP*Link Selector					
Expansion Module Part No.	***ZIPLink Module***	***ZIPLink Module Part No.***	***Qty Needed***	***ZIPLink Cable Part No.[1]***	***Qty Needed***
BX-04ADM-1	Feedthrough	ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact)	1	ZL-BXEM-CBL20 ZL-BXEM-CBL20-1 ZL-BXEM-CBL20-2	1
BX-04AD-1					
BX-08AD-1					
BX-16AD-1					
BX-04AD-2B					
BX-08AD-2B					
BX-16AD-2B					
BX-04DA-1					
BX-08DA-1					
BX-04DA-2B					
BX-08DA-2B					
BX-2AD2DA-1					
BX-4AD2DA-1					
BX-2AD2DA-2B					
BX-4AD2DA-2B					
BX-08AD-3				ZL-BXEM-CBL10 ZL-BXEM-CBL10-1 ZL-BXEM-CBL10-2	1
BX-08DA-3					
BX-2AD2DA-3					
BX-4AD4DA-3					
BX-04THM	Temperature Input modules are not supported by the ***ZIP***Link wiring system.				
BX-08THM					
BX-06RTD					
BX-08NTC					
BX-04UT					
BX-08UT					
BX-4THM4DA-1					
BX-4RTD4DA-1					
BX-4UT4DA-3					
BX-4UT4TD1					
BX-4UT4TD2					
BX-4UT4TR					

1. **Select cable length: Blank = 0.5 m, -1 = 1.0m, -2 = 2.0m.**
   Available pigtail cables: ZL-BXEM-CBL20-1P = 1.0 m, ZL-BXEM-CBL20-2P = 2.0 m.