

# 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	<b>BX-RTB05</b> <b>BX-RTB08</b>	<b>BX-RTB05-1</b> <b>BX-RTB08-1</b>	<b>BX-RTB05-2</b> <b>BX-RTB08-2</b>
Price (Single Block)			
Price (Kit)			
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	<b>BX-RTB10</b>	<b>BX-RTB10-1</b>	<b>BX-RTB10-2</b>
Price (Kit)			
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

## ZIPLink Wiring System

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



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

\* 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 **ZIPLink** wiring system.

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

\* 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 **ZIPLink** wiring system.

# BRX Wiring Termination Options

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

\* 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 ZIPLink wiring system.

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

\* 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 ZIPLink Selector					
Expansion Module Part No.	ZIPLink Module	ZIPLink Module Part No.	Qty Needed	ZIPLink Cable Part No. *	Qty Needed
<b><u>BX-HSIO4</u></b>	Feedthrough	<u>ZL-RTB40</u> (Standard) OR <u>ZL-RTB40-1</u> (Compact)	1	<u>ZL-BX-CBL40-S</u> <u>ZL-BX-CBL40-1S</u>	1

# BRX Wiring Termination Options

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

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.