

# 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

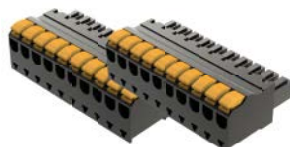
Part Number Single Block Set of 3 Blocks	BX-RTB05 BX-RTB08	BX-RTB05-1 BX-RTB08-1	BX-RTB05-2 BX-RTB08-2
Price (Single Block)	\$5.00	\$5.00	\$5.00
Price (Kit)	\$8.75	\$8.75	\$8.75
Connector Type	Screw Type - 90-degree	Spring Clamp Type - 180-degree	Screw Type - 180-degree
Wire Exit	180-degree	180-degree	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)	\$13.00	\$13.00	\$13.00
Connector Type	Screw Type 90-degree	Spring Clamp Type 180-degree	Screw Type 180-degree
Wire Exit	180-degree	180-degree	180-degree
Pitch	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
<b>BX-08ND3</b>	Feedthrough	ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact)	1	ZL-BXEM-CBL10 ZL-BXEM-CBL10-1 ZL-BXEM-CBL10-2	1
<b>BX-08NF3</b>					
<b>BX-08NA</b>					
<b>BX-08NB</b>					
<b>BX-08TD1</b>					
<b>BX-08TD2</b>					
<b>BX-08TR**</b>					
<b>BX-08TRZ**</b>					
<b>BX-08TA</b>					
<b>BX-08CD3R**</b>					

\* 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
<b>BX-12ND3</b>	Feedthrough	ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact)	1	ZL-BXEM-CBL15 ZL-BXEM-CBL15-1 ZL-BXEM-CBL15-2	1
<b>BX-12NA</b>					
<b>BX-12NB</b>					
<b>BX-12TD1</b>					
<b>BX-12TD2</b>					
<b>BX-12TR**</b>					
<b>BX-05TRS</b>					
<b>BX-12TA</b>					
<b>BX-12CD3D1</b>					
<b>BX-12CD3D2</b>					

\* 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>BX-16ND3</b>	Sensor	ZL-LTB16-24-1	1	ZL-BXEM-CBL20 ZL-BXEM-CBL20-1 ZL-BXEM-CBL20-2	1
	Feedthrough				
<b>BX-16NF3</b>	Feedthrough	ZL-RTB20 (Standard)	1		
<b>BX-16NA</b>		OR			
<b>BX-16NB</b>		ZL-RTB20-1 (Compact)			
<b>BX-16TD1</b>	Feedthrough				
	Relay (Sourcing)	ZL-RRL16-24-1, ZL-RRL16W-24-1, ZL-RRL16F-24-1, ZL-RRL16HDF-24-1	1		
<b>BX-16TD2</b>	Relay (Sinking)	ZL-RRL16-24-2, ZL-RRL16W-24-2, ZL-RRL16F-24-2, ZL-RRL16HDF-24-2	1		
	Feedthrough				
<b>BX-16TF2</b>	Feedthrough	ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact)	1		
<b>BX-16TR**</b>					
<b>BX-16TRZ*</b>					
<b>BX-16CD3D1</b>					
<b>BX-16CD3D2</b>					
<b>BX-16CF3F2</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>BX-32ND3</b>	Sensor	ZL-LTB32-24-1	1	ZL-D24-CBL40 ZL-D24-CBL40-1 ZL-D24-CBL40-2	1
	Feedthrough	ZL-RTB40 (Standard)	1		
<b>BX-32TD1</b>	Feedthrough	ZL-RTB40-1 (Compact)			
<b>BX-32TD2</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>BX-HS104</b>	Feedthrough	ZL-RTB40 (Standard) OR ZL-RTB40-1 (Compact)	1	ZL-BX-CBL40-S ZL-BX-CBL40-1S	1

# BRX Wiring Termination Options

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

<sup>1</sup> 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.