

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 3.81mm connectors.

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

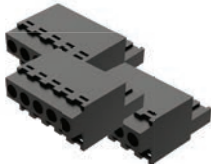
Terminal Block Kits for 5-point, 8-point and 12-point Expansion Modules



BX-RTB08 (Kit - 3 pieces)



BX-RTB08-1 (Kit - 3 pieces)



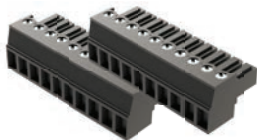
BX-RTB08-2 (Kit - 3 pieces)

Terminal Block Specifications 5-, 8- & 12-Point Type

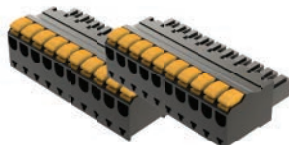
| Part Number Single Block Set of 3 Blocks | <i>BX-RTB05</i> <i>BX-RTB08</i> | <i>BX-RTB05-1</i> <i>BX-RTB08-1</i> | <i>BX-RTB05-2</i> <i>BX-RTB08-2</i> |
|--|--|--|--|
| Price (Single Block) | \$9.25 | \$7.75 | \$8.75 |
| Price (Kit) | \$16.50 | \$15.50 | \$16.50 |
| Connector Type | Screw Type, 90° | Spring Clamp Type, 180° | Screw Type, 180° |
| Wire Exit | 180° | 180° | 180° |
| Pitch | 5.0mm | 5.0mm | 5.0mm |
| 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 | 3.5mm | 3.5mm | 3.5mm |
| 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 | 0.3in [7.5mm] | 0.37in [9.5mm] | 0.3in [7.5mm] |
| 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 | <i>BX-RTB10</i> | <i>BX-RTB10-1</i> | <i>BX-RTB10-2</i> |
|--------------------------|--------------------------|---|--------------------------|
| Price (Kit) | \$23.00 | \$25.00 | \$23.50 |
| 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 |
| Screw Torque Recommended | <1.77 lb-in [0.2 N·m] | N/A | <1.77 lb-in [0.2 N·m] |
| Screwdriver Blade Width | 2.5mm | 2.5mm | 2.5mm |
| 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 | 0.24in [6mm] | 0.35in [9mm] | 0.26in [6.5mm] |
| 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 |
|-----------------------------|----------------|---|------------|---|------------|
| 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 = 0.5m, -1 = 1.0m, -2 = 2.0m.

Available pigtail cables: [ZL-BXEM-CBL10-1P](#) = 1.0m, [ZL-BXEM-CBL10-2P](#) = 2.0m.

** 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 |
|----------------------------|----------------|---|------------|---|------------|
| 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 = 0.5m, -1 = 1.0m, -2 = 2.0m.

Available pigtail cables: [ZL-BXEM-CBL15-1P](#) = 1.0m, [ZL-BXEM-CBL15-2P](#) = 2.0m.

** 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 |
| <u>BX-16ND3</u> | 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 | | |
| <u>BX-16NF3</u> | Feedthrough | | | | |
| <u>BX-16NA</u> | | | | | |
| <u>BX-16NB</u> | Feedthrough | | | | |
| <u>BX-16TD1</u> | Relay (Sourcing) | <u>ZL-RRL16-24-1</u> , <u>ZL-RRL16W-24-1</u> , <u>ZL-RRL16F-24-1</u> | 1 | | |
| | Relay (Sinking) | <u>ZL-RRL16-24-2</u> , <u>ZL-RRL16W-24-2</u> , <u>ZL-RRL16F-24-2</u> | 1 | | |
| <u>BX-16TD2</u> | Feedthrough | <u>ZL-RTB20</u> (Standard) OR <u>ZL-RTB20-1</u> (Compact) | 1 | | |
| <u>BX-16TF2</u> | Feedthrough | | | | |
| <u>BX-16TR**</u> | | | | | |
| <u>BX-16TRZ**</u> | | | | | |
| <u>BX-16CD3D1</u> | | | | | |
| <u>BX-16CD3D2</u> | | | | | |
| <u>BX-16CF3F2</u> | | | | | |
| <u>BX-16NN</u> | | | | | |
| <u>BX-16TD2W</u> | | | | | |
| <u>BX-16TDY2</u> | | | | | |
| <u>BX-16TN2</u> | | | | | |
| <u>BX-8NN8TN2</u> | | | | | |

* Select cable length: Blank = 0.5m, -1 = 1.0m, -2 = 2.0m.

Available pigtail cables: ZL-BXEM-CBL20-1P = 1.0m, ZL-BXEM-CBL20-2P = 2.0m.

** 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 |
| <u>BX-32ND3</u> | 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 | | |
| <u>BX-32TD1</u> | Feedthrough | | | | |
| <u>BX-32TD2</u> | | | | | |

* Select cable length: Blank = 0.5m, -1 = 1.0m, -2 = 2.0m.

Available pigtail cables: ZL-D24-CBL40-1P = 1.0m, ZL-D24-CBL40-2P = 2.0m.

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 |
| <u>BX-HSIO4</u> | 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 ZIPLink 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 | | | | Temperature Input modules are not supported by the ZIPLink wiring system. | | | |
| BX-04THM | | | | | | | |
| 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 = 0.5m, -1 = 1.0m, -2 = 2.0m.
 Available pigtail cables: [ZL-BXEM-CBL20-1P](#) = 1.0m, [ZL-BXEM-CBL20-2P](#) = 2.0m.