

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.

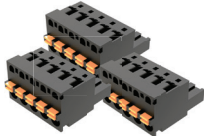
The five (5) and 12-point modules will use all three connectors. The analog and 16-point digital module kits include (2) 10-pin 3.81 mm connectors.

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

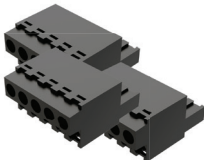
Terminal Block Kits for 5-point, 8-point and 12-point Expansion Modules



BX-RTB08 (Kit - 3 pieces)



BX-RTB08-1 (Kit - 3 pieces)

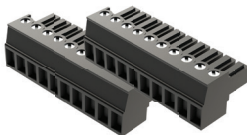


BX-RTB08-2 (Kit - 3 pieces)

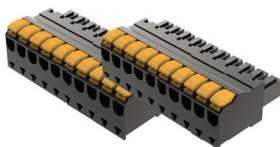
| Terminal Block Specifications 5-, 8- & 12-Point Type | | | |
|--|-------------------------|--|-------------------------|
| Part Number | BX-RTB08 | BX-RTB08-1 | BX-RTB08-2 |
| Price (Kit) | \$8.00 | \$8.00 | \$8.00 |
| Connector Type | Screw Type - 90-degree | Spring Clamp Type - 180-degree | Screw 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

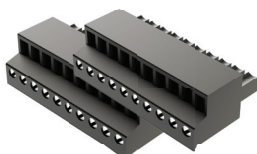
Terminal Block Kits for Analog and 16-point Discrete Expansion Modules



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) | \$12.00 | \$12.00 | \$12.00 |
| 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 |
| 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-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 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 = 0.5 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, continued

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 |
|---------------------------|----------------|---|------------|---|------------|
| BX-16ND3 | Feedthrough | ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact) | 1 | ZL-BXEM-CBL20 ZL-BXEM-CBL20-1 ZL-BXEM-CBL20-2 | 1 |
| BX-16NA | | | | | |
| BX-16NB | | | | | |
| BX-16TD1 | | | | | |
| BX-16TD2 | | | | | |
| BX-16TR** | | | | | |
| BX-16CD3D1 | | | | | |
| BX-16CD3D2 | | | | | |

* 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 |
|---------------------------|----------------|---|------------|--|------------|
| BX-32ND3 | Feedthrough | ZL-RTB40 (Standard) OR ZL-RTB40-1 (Compact) | 1 | ZL-D24-CBL40 ZL-D24-CBL40-1 ZL-D24-CBL40-2 | 1 |
| BX-32TD1 | | | | | |
| 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.

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-04AD-1 | Feedthrough | ZL-RTB20 (Standard) OR ZL-RTB20-1 (Compact) | 1 | ZL-BXEM-CBL20 ZL-BXEM-CBL20-1 ZL-BXEM-CBL20-2 | 1 |
| BX-08AD-1 | | | | | |
| BX-04ADM-1 | | | | | |
| BX-04AD-2B | | | | | |
| BX-08AD-2B | | | | | |
| BX-04DA-1 | | | | | |
| BX-08DA-1 | | | | | |
| BX-04DA-2B | | | | | |
| BX-08DA-2B | See Note 2 | | | | |
| BX-04THM | | | | | |
| BX-08THM | | | | | |
| BX-06RTD | | | | | |
| BX-08NTC | | | | | |

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.

² Temperature Input modules are not supported by the ZIPLink wiring system.