

Instructions

Wiring Touch-Down Terminal Blocks: BNH Series

Instructions	Step 1	Step 2	Step 3	Step 4
<p>Step 1. Insert the wire (or crimping terminal) into the terminal block with the terminal screws in the open position. (Use of crimping terminals is optional.)</p> <p>Step 2. Push the terminal screw down to hold the wire in place.</p> <p>Step 3. Hold the terminal screw down, and tighten with a screwdriver.</p> <p>Step 4. To remove the wire, loosen the terminal screw and pull up until wire is released.</p>				

Installation and Removal of Terminal Blocks

Instructions	Appearance
<p>Step 1. Slide the terminal blocks onto the DIN rail from one end.</p> <p>Step 2. Use BNL5 or BNL6 end clips to secure the terminal block row and to prevent side-to-side movement. BNH10W, BNH15MW, BNH15LW, and BNH30W can be installed from the middle of a DIN rail.</p> <p>Step 3. To install, place the terminal block on top of the DIN rail and push down until both edges of the terminal block snap onto the DIN rail.</p> <p>Step 4. To remove the terminal block, use the BND2 removal tool as shown on the right.</p>	<p>Removal Tool BND2</p>

Mounting Double-Deck Terminal Blocks

Instructions	Appearance
<p>DIN Rail Mount:</p> <p>Step 1. First install the end plate. Then mount the terminal blocks onto the DIN rail.</p> <p>Step 2. To prevent side-to-side movement on the DIN rail, use the BNL-8 mounting clip at both ends of the rail.</p>	
<p>Panel Mount:</p> <p>Step 1. Assemble a row of terminal blocks with end plates on exposed end(s).</p> <p>Step 2. Use BNDL2 mounting clips at both ends of a row.</p> <p>Step 3. With the two holes of the mounting clip aligned with the terminal block holes, insert a connecting rod through each hole.</p> <p>Step 4. Secure the ends of the connecting rods with the connecting nuts, as shown below.</p>	

Switches & Pilot Lights

Signaling Lights

Relays & Sockets

Timers

Contactors

Terminal Blocks

Circuit Breakers

Calculating DIN Rail Lengths

Instructions	Appearance
<p>Step 1. Add widths of all terminal blocks (reference pages 864 through 869).</p> <p>Step 2. Add the endplate thickness (usually only one).</p> <p>Step 3. Add the DIN rail stop widths (usually two are used).</p> <p>Step 4. Round to the nearest 2" (50mm) increment to allow for DIN rail hole spacing.</p> <p>Step 5. Add 1" (25mm) to ensure 0.5" (12.5mm) of clearance at each end of the DIN rail.</p>	

DIN Rail Stop Dimensions

Part No.	Width
BNL-5	.374" (9mm)
BNL-6	.374" (9mm)
BNL-8	.571" (14.5mm)

Torque Specifications and Applicable Connector Sizes

Screw Size	M3	M3.5	M4	M5	M6	M8	M10	M12	Diagram	
Torque	(N-m)	0.6 to 1.0	1.0 to 1.3	1.4 to 2.0	2.6 to 3.7	3.9 to 5.4	10 to 13.5	21 to 28	38 to 49	
	(kgf-cm)	6.1 to 10.2	10.2 to 13.3	14.3 to 20.4	26.5 to 37.7	39.8 to 55.1	102 to 138	214 to 286	388 to 500	
Dimension A	0.257" (6.6mm)	0.332" (8.5mm)	0.371" (9.5mm)	0.499" (12.8mm)	0.655" (16.8mm)	0.890" (22.8mm)	1.279" (32.8mm)	1.981" (50.8mm)		
Dimension B	0.129" (3.3mm)	0.156" (4mm)	0.176" (4.5mm)	0.176" (4.5mm)	0.234" (6mm)	0.312" (8mm)	0.429" (11mm)	0.546" (14mm)		
Dimension C	0.195" (5mm)	0.195" (5mm)	0.234" (6mm)	0.254" (6.5mm)	0.332" (8.5mm)	0.429" (11mm)	0.624" (16mm)	1.014" (26mm)		
Dimension D	Ø 0.125" (3.2mm)	Ø 0.140" (3.6mm)	Ø 0.164" (4.2mm)	Ø 0.203" (5.2mm)	Ø 0.242" (6.2mm)	Ø 0.332" (8.5mm)	Ø 0.410" (10.5mm)	Ø 0.488" (12.5mm)		

Rated Current

Applicable Wire	Rated at 60°C	Applicable Wire	Rated at 60°C
22 AWG (0.3mm ²)	3A	6 (14mm ²)	50A
20 AWG (0.5mm ²)	5A	4 (22mm ²)	75A
18 AWG (0.75mm ²)	7A	0 (38mm ²)	100A
16 AWG (1.25mm ²)	10A	00 (60mm ²)	150A
14 AWG (2mm ²)	15A	0000 (100mm ²)	200A
12 (3.5mm ²)	20A	300mcm (150mm ²)	300A
10 (5.5mm ²)	30A	400mcm (200mm ²)	350A

UL/CSA ratings are specified. The current carrying capacity depends on the rating of the wire used, as shown.

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