

6 TERMINAL BLOCKS

6.1 GENERAL INFORMATION

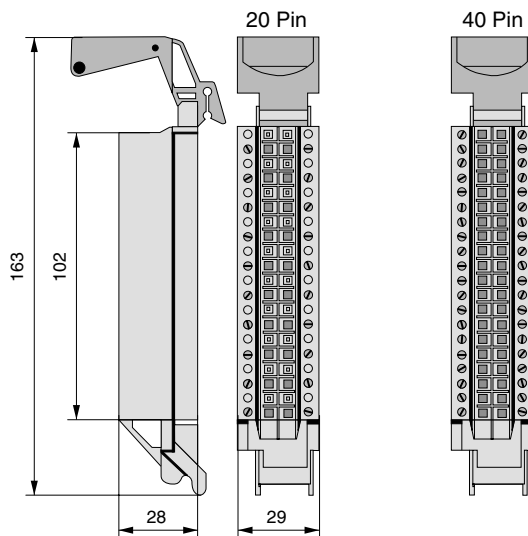
Modules within the B&R 2010 control generation are connected to other control elements using double row terminal blocks.

The following advantages are achieved through the special construction of the terminal blocks:

- Whether the terminal block is properly connected is indicated by means of a status LED on each and every module. This information can also be evaluated through the application program.
- The terminal block can be coded so as to prevent accidental connection to the wrong I/O module (see chapter "Project Planning and Installation" section "Dimensions and Installation").
- The terminal block is easily removed with a built-in ejection lever (see chapter "Project Planning and Installation" section "Dimensions and Installation").

To prevent damage, a stress relief should be used for the I/O cable.

6.2 TECHNICAL DATA



Module ID	TB120	TB140
Model Number	2TB120.9	2TB140.9
Description	2010 Terminal Block, 20 pin, screw clamps	2010 Terminal Block, 40 pin, screw clamps
Number of Pins	20	40
Clamp Type	Screw clamps (3.5 mm screw driver)	
Distance between Contacts Terminal / Terminal Left / Right Row	10.16 mm 6.38 mm	5.08 mm 6.38 mm
Creeping Distance Terminal / Terminal Left / Right Row	8.28 mm 4.5 mm	3.2 mm 4.5 mm
Nominal Voltage ¹⁾	250 VAC according to VDE Group C	
Current Load ¹⁾	Max. 12 A / contact	
Dielectric Strength ¹⁾ Terminal / Terminal Left / Right Row	>5 kV 5 kV	3.5 kV 5 kV
Wire Cross Section	0.20 mm ² (AWG24) - 2.5 mm ² (AWG12)	
Cable Type	Only copper wire (no aluminium wires!)	
Removal	Mechanical	
Stress Relief	Cable ties	

¹⁾ The respective limit data for the I/O modules has to be taken into consideration!