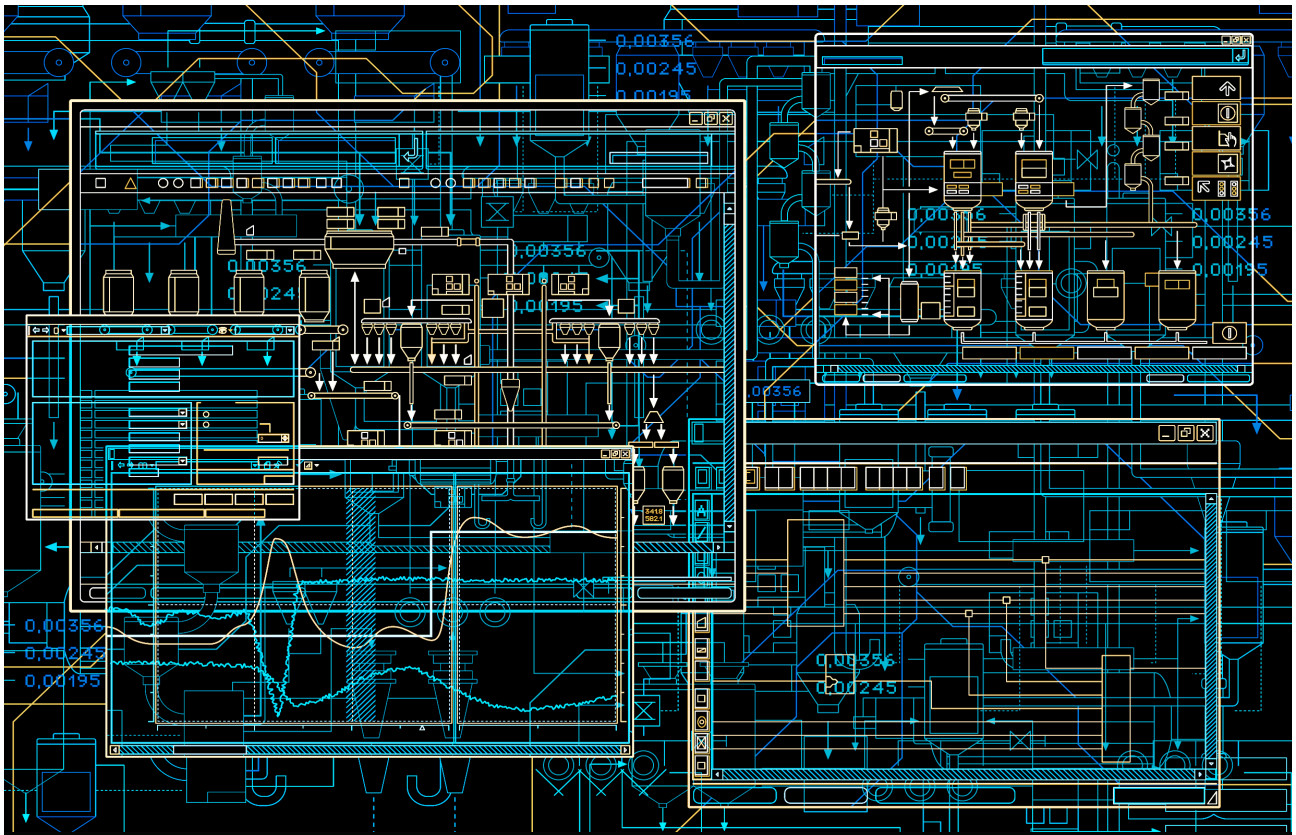


S200 I/O

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Section 5 Functional Description

This section describes the function of the terminal base units, I/O units and accessories. Remember to check that your controller software allows you to use the functions described.

Terminal Base Unit Overview

The following table shows which terminal base unit meet various application needs.

Terminal base unit	Purpose
200-TB2	Primarily intended for use with input units when using 2-wire inputs/outputs.
200-TB3	Primarily intended for use with input units when using 3-wire input proximity switches – can also be used with output units.
200-TB3S	A spring clamp version of the cage clamp 200-TB3 above – provides faster, simpler wire installation.
200-TB32	Required with the 200-IB32, 200-OB32P and 200-IB16xOB16P units.
200-TB3T	Required with the 200-IT8 unit – also provides chassis ground connections for the 200-IR8 and analog units.
200-TBN	Provides screw terminals to accept larger gauge wires plus cover for I/O wiring.
200-TBNF	Provides 8 5x20 mm fuses, screw terminals, plus a cover for I/O wiring – shipped with fuses for the 200-OA8 and 200-OM8 units, can be used for the 200-OW8 unit (see 200-OW8 installation instructions).

Terminal Base Compatibility Cross Reference

The following table lists the recommended terminal base unit(s) for each I/O unit.

I/O unit	Order code	Preferred terminal base	Compatible terminal base(s)
AC			
230 V AC	200-IM8	200-TBN	-
	200-OM8	200-TBNF	200-TBN
120 V AC	200-IA8	200-TBN	200-TB3 200-TB3S
	200-OA8	200-TBNF	200-TB3 200-TB3S 200-TBN
DC			
24 V DC	200-IB16	200-TB3	200-TB2 200-TB3S
	200-OB16 200-OB16P	200-TB2	200-TB3 200-TB3S
	200-IB10xOB6	200-TB3	200-TB3S
	200-IB32 200-OB32P 200-IB16xOB16P	200-TB32	
	200-OB8EP	200-TB2	200-TB3 200-TBN 200-TBNF
Relay			
Relay unit	200-OW8	200-TBNF	200-TB3 200-TB3S 200-TBN

I/O unit	Order code	Preferred terminal base	Compatible terminal base(s)
Counters			
24 V DC	200-IP2	200-TB3	200-TB3S 200-TB2
	200-IP4	200-TB3	200-TB3S 200-TB2
Analog			
24 V DC	200-IE8	200-TB3	200-TB3S
	200-OE4	200-TB3	200-TB3S 200-TBN 200-TBNF
	200-IE4xOE2	200-TB3	200-TB3S
Isolated analog			
24 V DC	200-IF4I	200-TB3	200-TB3S 200-TB3T 200-TBN
	200-OF4I	200-TB3	200-TB3S 200-TB3T 200-TBN
Speciality			
RTD Input unit	200-IR8	200-TB3	200-TB3S 200-TB3T
	200-IR8R	200-TB3T	200-TB3T
Thermocouple/mV Input unit	200-IT8	200-TB3T(1)	

(1) You can use a 200-TB3 for mV inputs only

Terminal Base Unit 200-TB2

This terminal base unit is intended for connecting an I/O unit and a number of two wire devices to the I/O system.

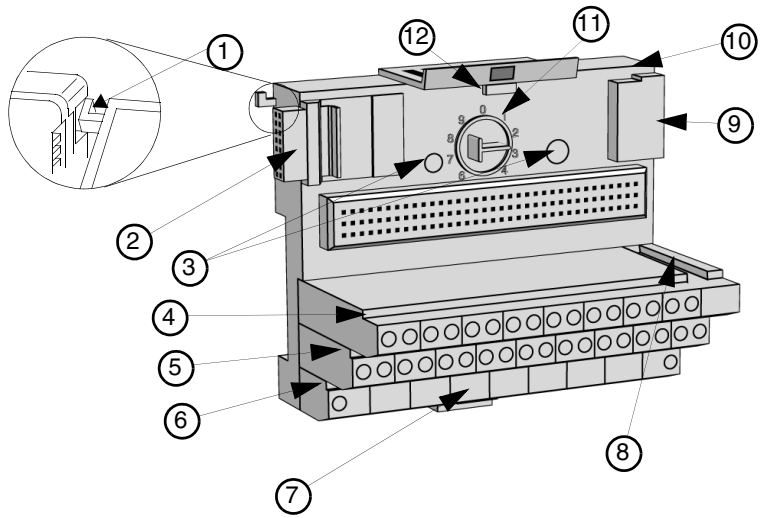


Figure 22. Terminal base unit 200-TB2

Component identification

1	Hook
2	Female I/O bus connector
3	Screw holes for panel mounting (Ø 4.5 mm), not used
4	Screw terminals for input/output connections
5	Screw terminals for input/output commons (0V DC)
6	Screw terminals for power connections (+24 V DC)
7	Locking tab for DIN rail mounting
8	Groove where the I/O unit guide rail fits
9	Male I/O bus connector
10	Slot for connection of an adjacent terminal base unit
11	Code key – set to the position required for the installed I/O unit

Terminal Base Unit 200-TB3T

This terminal base unit is intended for connecting an I/O unit and a number of 2- and 3-wire devices to the I/O system. This terminal base is mainly intended for use with 200-IT8.

Six screw terminals are intended for cold junction inputs for compensation via an external thermistor. This is a requirement when used with 200-IT8.

Eight screw terminals are intended to provide connection points to chassis ground. This intent is to provide a place to connect the shield wire when using shielded cables of analog units.

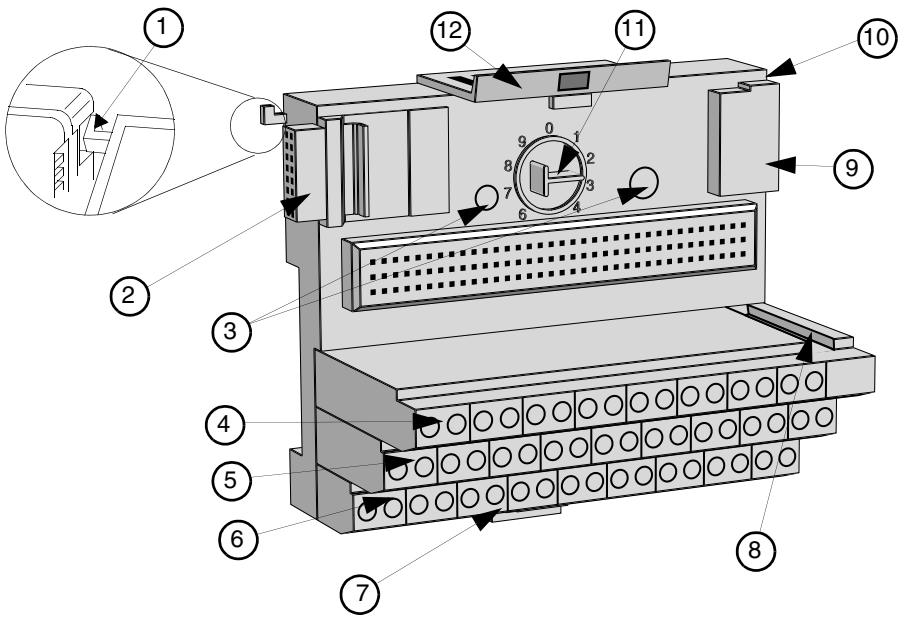


Figure 34. Terminal base unit 200-TB3T.