Common Port Terminal Block

TB101

In replacement of ordinary wiring terminal port

- Greatly increased efficiency
- Small-sized design, simpler wiring box

Features

- Pole P and Pole N of the input terminal connected to 2 voltages.
- Output pole P divided into 9 branches, and pole N divided into 9 branches.
- The terminal block is of the space-saving screw fastening type.
- Placed into 65mm×54mm small enclosure.
- Quickly installed at 35mm DIN guide track.

Rated values/performance of inputs

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated current</td>
<td>1A</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>DC24V</td>
</tr>
<tr>
<td>Applicable wire</td>
<td>1.5 mm² Following J/AWG16</td>
</tr>
</tbody>
</table>

Wire stripping length

6mm

Attention

Before ordering, please confirm the load type and size, choose the suitable way to control.

Wiring Drawing

Shape Figure

Corresponding values at input/output values

<table>
<thead>
<tr>
<th>Corresponding Input Devices</th>
<th>Switching Power Supply DC Output</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The various branches of the load components</td>
</tr>
</tbody>
</table>

Corresponding Input Devices

- The various branches of the load components

Corresponding Output Devices

- Switching Power Supply DC Output
Common Port Terminal Block

TB102

In replacement of conventional grounding terminal block

- Convenient, fast
- Saving time

Features
- In replacement of conventional grounding terminal blocks.
- Convenient and fast installation.
- Quickly installed on 35mm DIN guide rail.

Rated values/performance of inputs

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage</td>
<td>DC24V</td>
</tr>
<tr>
<td>Applicable wires</td>
<td>1.5 mm² Following /AWG15</td>
</tr>
</tbody>
</table>

Wiring Shape

Atentions
- Before ordering, please confirm the load type and size, choose the suitable way to control.

Atentions
- The terminal station and shell are insulative, and if terminal stations and electric box shell need to be conductive, please connect separately.
General Terminal Block

TB104

In replace of ordinary wiring terminals

- Greatly increased efficiency
- Small-sized design, simpler distribution box

Features

- Wiring efficiency of public terminal greatly increased.
- In replacement of ordinary wiring terminal block.
- Small-sized design, simpler distribution box.
- Built in 65mm×54mm small enclosure.
- Quickly installed on 35mm DIN guide rail.

Rated values/performance of inputs

<table>
<thead>
<tr>
<th>Rated values/performance of inputs</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated current</td>
<td>1A</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>DC24V</td>
</tr>
<tr>
<td>Applicable wire</td>
<td>1.5 mm² Following /AWG16</td>
</tr>
</tbody>
</table>

Atentions

- The terminal station designed for low pressure, do not access power above 36V.

Wire stripping length

- 6mm
General Terminal Block

TB105

In replace of ordinary wiring terminals

- Greatly increased efficiency
- Small-sized design, simpler distribution box

Features

- Wiring efficiency of public terminal greatly increased.
- In replacement of ordinary wiring terminal block.
- Small-sized design, simpler distribution box.
- Built in 65mm×54mm small enclosure.
- Quickly installed on 35mm DIN guide rail.

Rated values/performance of inputs

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated current</td>
<td>1A</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>DC24V</td>
</tr>
<tr>
<td>Applicable wire</td>
<td>1.5 mm² / AWG 16</td>
</tr>
</tbody>
</table>

Wire stripping length

6mm

Attentions

- The terminal station designed for low pressure, do not access power above 36V.
The terminal board is the terminal input board, and is corresponding to the terminal input signals. Configured with 8 groups of 3P signal input interfaces, connecting to 2-wire system or 3-wire system signals. 10P connector is used to connect the control terminal for remote control. Action LED display, and the operation is visible. Combined with the company’s other products of the series, high efficiency and wiring saving is realized.

### Features
- The terminal board is the terminal input board, and is corresponding to the terminal input signals.
- Configured with 8 groups of 3P signal input interfaces, connecting to 2-wire system or 3-wire system signals.
- 10P connector is used to connect the control terminal for remote control.
- Action LED display, and the operation is visible.
- Combined with the company’s other products of the series, high efficiency and wiring saving is realized.

### Rated values/performance of inputs

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated current</td>
<td>1A</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>DC24V</td>
</tr>
<tr>
<td>Applicable wire</td>
<td>1.5 mm² Following /AWG16</td>
</tr>
</tbody>
</table>

### Wire stripping length

6mm

### Corresponding Input Devices

- Panasonic
  - FP0-C16T/C16CT(IN)
  - FP0-C16P/C16CP(IN)
  - FP0-C32T/C32CT/T32CT(IN)
  - FP0-C32P/C32CP/T32CP(IN)
  - FP0-E16T/P(IN)
  - FP0-E32T/P(IN)
  - FP0-E16X
  - FP0-E16X
  - FP0_ -C28(IN Ministry)
  - FP0_ -C32(IN Ministry)
  - Or PLC of other brands

### Corresponding Output Devices

- Photoelectric Switch, Button Switch, Fiber

### Wiring Drawing
**8-bit Output Terminal Block TB202**

---

**Terminal Input Signal Connection**
- 8 groups of 2P signal input interface
- Action LED display
- High efficiency and wiring saving

---

**Features**
- The terminal board is the terminal input board, and the corresponding to the terminal input signals.
- Configured with 8 groups of 2P signal input interfaces, connecting to 2-wire system or 3-wire system signals.
- 10P connector is used to connect the control terminal for remote control.
- Operation LED display, and the operation is visible.
- Combined with the company’s other products of the series, high efficiency and wiring saving is realized.

---

**Rated values/performance of inputs**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated current</td>
<td>1A</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>DC 24V</td>
</tr>
<tr>
<td>Applicable wire</td>
<td>1.5 mm² / AWG16</td>
</tr>
<tr>
<td>Circuit structure</td>
<td>NPN</td>
</tr>
</tbody>
</table>

---

**Attentions**
- Before ordering, please confirm the PLC pin definition, choose the suitable terminal.

---

**Corresponding at input/output sides**

<table>
<thead>
<tr>
<th>Corresponding Input Devices</th>
<th>Corresponding Output Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panasonic</td>
<td>Photoelectric Switch, Button Switch, Fiber</td>
</tr>
<tr>
<td>FP0-C16T/C16CT(Out)</td>
<td>FP0-C16P/C16CP(Out)</td>
</tr>
<tr>
<td>FP0-C32T/C32CT/T32CT(Out)</td>
<td>FP0-C32P/C32CP/T32CP(Out)</td>
</tr>
<tr>
<td>FP0-E16T/P(Out)</td>
<td>FP0-E32T/P(Out)</td>
</tr>
<tr>
<td>FP0-E8YT</td>
<td>FP0-E16YT</td>
</tr>
<tr>
<td>FPΣ-C28(Out)</td>
<td>FPΣ-C32(Out)</td>
</tr>
<tr>
<td>Or PLC of other brands</td>
<td></td>
</tr>
</tbody>
</table>

---

**Wire stripping length**
- 6mm

---

**Shape Figure**

![Shape Figure](image)

**Wiring Drawing**

![Wiring Drawing](image)
8-bit Input Terminal Block

**TB203**

Terminal Input Signal Connection

- 8 groups of 3P signal input interface
- Input 2-wire system or 3-wire system
- Action LED display
- High efficiency and wire saving

Features

- The terminal board is the terminal input board, and is corresponding to the terminal input signals.
- Configured with 8 groups of 3P signal input interfaces, connecting to 2-wire system or 3-wire system signals.
- 10P connector is used to connect the control terminal for remote control.
- Operation LED display, and the operation is visible.
- Combined with the Company’s other products of the series, high efficiency and wiring saving is realized.

**Rated values/performance of inputs**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated current</td>
<td>1A</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>DC24V</td>
</tr>
<tr>
<td>Applicable wire</td>
<td>1.5 mm² Fallowing /AW016</td>
</tr>
<tr>
<td>Circuit structure</td>
<td>NPN</td>
</tr>
</tbody>
</table>

**Wire stripping length**

6mm

Attention

Before ordering, please confirm the load type and size, choose the suitable way to control.

**Corresponding of input/output sides**

<table>
<thead>
<tr>
<th>Corresponding Input Devices</th>
<th>Not limited to PLC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corresponding Output Devices</td>
<td>Photoelectric Switch, Button Switch, Fiber</td>
</tr>
</tbody>
</table>

**Shape Figure**

![Shape Figure](image)

**Wiring Drawing**

![Wiring Drawing](image)
8-bit Output Terminal Block

**TB204**

**Terminal Input Signal Connection**
- 8 groups of 2P signal input interface
- LED display
- High efficiency and wire saving

**Features**
- The terminal board is the terminal input board, and is corresponding to the terminal input signals.
- Configured with 8 groups of 2P signal input interfaces, connecting to 2-wire system or 3-wire system signals.
- 10P connector is used to connect the control terminal for remote control.
- Operation LED display, and the operation is visible.

**Rated values/performance of inputs**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated current</td>
<td>1A</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>DC24V</td>
</tr>
<tr>
<td>Applicable wire</td>
<td>1.5 mm² copper</td>
</tr>
<tr>
<td>Circuit structure</td>
<td>NPN</td>
</tr>
</tbody>
</table>

**Wiring Drawing**

**Shape Figure**

- Corresponding of input/output sides
  - Corresponding Input Devices: Not limited to PLC
  - Corresponding Output Devices: Solenoid, Indicator

**Wire stripping length**

- Before ordering, please confirm the load type and size, choose the suitable way to control.

- **Rated values/performance of inputs**
  - 8-bit Output Terminal Block
  - TB204

**Attentions**

- Before ordering, please confirm the load type and size, choose the suitable way to control.

- **Wiring Drawing**
  - 8-bit Output Terminal Block
  - TB204
16bit input/output terminal block

**TB205**

**Corresponding to 16bit I/O PLC module**
- Divided into 8bit terminal blocks
- More convenient wiring
- Action LED display

**Features**
- 20P MIL plug as the incoming wire terminal, divided into 2 groups of 8bit terminal blocks.
- With the company's terminal blocks, compatible all the 16bit I/O modules on market.
- NPN/PNP double polarity input corresponding, and the indicator light shall be on different colors with different input signals.

**Rated values/performance of inputs**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated current</td>
<td>1A</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>DC24V</td>
</tr>
<tr>
<td>Applicable wire</td>
<td>1.5 mm² Following /AWG16</td>
</tr>
<tr>
<td>Circuit structure</td>
<td>NPN / PNP</td>
</tr>
</tbody>
</table>

**Attentions**
- Before ordering please confirm the PLC pin definition, choose the suitable terminal.

**Wire stripping length**

6mm

---

**Corresponding of input/output sides**

**Corresponding of input sides**

**MITSUBISHI FX series**
- FX1NC-16MT(IN Ministry)
- FX1NC-16MT(OUT Ministry)
- FX1NC-32MT(IN Ministry)
- FX1NC-32MT(OUT Ministry)
- FX2NC-16MT(IN Ministry)
- FX2NC-16MT(OUT Ministry)
- FX2NC-32MT(IN Ministry)
- FX2NC-32MT(OUT Ministry)
- FX3UC-32MT(IN Ministry)
- FX3UC-32MT(OUT Ministry)
- FX2NC-16EYT
- FX2NC-17EYT-C

**OMRON**
- CJ1W-MD231(IN Ministry)
- CJ1W-MD231(OUT Ministry)
- CJ1W-MD232
- CJ1W-MD233(IN Ministry)
- CJ1W-MD234(OUT Ministry)
- FX1NC-16MT(IN Ministry)
- FX1NC-32MT(IN Ministry)
- FX2NC-16MT(IN Ministry)
- FX2NC-32MT(IN Ministry)
- FX3UC-32MT(IN Ministry)
- FX2NC-16EX
- FX2NC-16EX-C
- FX2NC-16EX-C-G
- FX1NC-16MT(OUT Ministry)
- FX1NC-32MT(OUT Ministry)
- FX2NC-16MT(OUT Ministry)
- FX2NC-32MT(OUT Ministry)
- FX3UC-32MT(OUT Ministry)
- FX2NC-16EYT
- FX2NC-17EYT-C

**AB NX70 series**
- NX70-X32D
- NX70-X32D1
- NX70-XY32(IN Ministry)
- NX70-Y32T
- NX70-YX32(OUT Ministry)

**Yokogawa PLCFA-M3 series**
- F3WD32-3F

**Corresponding of output sides**
- The input side or output side load switches.
- input side of the switching elements. The output side of the load.

**Shape Figure**

**Wiring Drawing**

20-core MIL connector

16P terminal block
**8-bit Terminal Block**

**TB301**

**Corresponding to all PLC output modules**
- Minimum volume
- 8-bit relay module
- Input and output of single-row terminal connection

**Features**
- The module is corresponding to PLC output module of all terminal wiring.
- The 8 relay module is used to minimize the volume.
- Single-row terminal row connection is used for input and output.
- LED operation display shall be used to visualize input and output status.

**Rated values/performance of inputs**

<table>
<thead>
<tr>
<th>Rated voltage (V)</th>
<th>Rated current (mA)</th>
<th>Coefficient resistance (Ω)</th>
<th>Operation voltage (V)</th>
<th>Resisting voltage (V)</th>
<th>Maximum permissible voltage (V)</th>
<th>Rated consumption power (mW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC 24V</td>
<td>7.5mA</td>
<td>3200Ω</td>
<td>More than 70%</td>
<td>Following 5%</td>
<td>120%</td>
<td>180mW</td>
</tr>
</tbody>
</table>

**Rated values/performance of outputs**

**Switches (each point of the relay)**
- Contact structure: 1A
- Contact resistance (initial): 30mΩ Voltage drop through the DC6V1A France
- Rated control capacity (resistance load): 5A 250V AC, 5A 30V DC
- Maximum permissible power: 1250VA, 150W
- Maximum permissible current: 5A
- Maximum permissible voltage: 250V AC, 110V DC
- Minimum applicable load: DC 100mV 100µA

**COM terminal**
- Maximum permissible current: 5A
- Service life: Mechanical service life: More than 20 million (Off frequency of 180 times/min)
- Electrical service life: 100,000 times or more (3A 250AC, 30VDC, Resitive load)

**Rated current**
- DC24V

**Rated voltage**
- DC 110V

**Applicable wire**
- 1.5mm² Following AWG16

**Contact structure**
- NPN

**Corresponding of Input/output sides**

<table>
<thead>
<tr>
<th>Corresponding of input side</th>
<th>Manufacturers</th>
<th>PLC Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corresponding of output side</td>
<td>TB202</td>
<td>Not limited</td>
</tr>
</tbody>
</table>

**Attentions**
- Before ordering, please confirm the load type and size, choose the suitable way to control.

**Wire stripping length**

6mm
8bit Relay Terminal Block

TB301-R

Corresponding to all PLC output modules
- Minimum volume
- 8bit relay module
- Input and output of single-row terminal connection

Features
- The module is corresponding to PLC output module of all terminal wiring.
- The 8 relay module is used to minimize the volume.
- Single-row terminal row connection is used for input and output.
- LED operation display shall be used to visualize input and output status.

Corresponding of input/output sides

<table>
<thead>
<tr>
<th>Corresponding of input side</th>
<th>Corresponding of output side</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturers PLC Module</td>
<td>Not limited Not limited</td>
</tr>
<tr>
<td>TB202</td>
<td></td>
</tr>
</tbody>
</table>

Attentions
- Before ordering, please confirm the load type and size, choose the suitable way to control.

Wiring Drawing

Rated values/performance of inputs

<table>
<thead>
<tr>
<th>Operation coil (each point of relay)</th>
<th>Contact structure</th>
<th>Coil resistance (Ω)</th>
<th>Operation voltage (V)</th>
<th>Rated value/performance of inputs</th>
<th>Maximum permissible voltage (V)</th>
<th>Rated consumption power (mW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC 24V</td>
<td>1A</td>
<td>30mΩ</td>
<td>More 70%</td>
<td>Following 5%</td>
<td>120%</td>
<td>180mW</td>
</tr>
</tbody>
</table>

Rated values/performance of outputs

<table>
<thead>
<tr>
<th>Switches (each point of the relay)</th>
<th>Contact structure</th>
<th>Operation voltage (V)</th>
<th>Resetting voltage (V)</th>
<th>Maximum permissible current (A)</th>
<th>Minimum applicable load (V)</th>
<th>Rated consumption power (mW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM terminal</td>
<td>1A</td>
<td>DC 250V, 30V DC</td>
<td>DC 100mV, 100mA</td>
<td>5A</td>
<td>DC 100mA</td>
<td>1250VA, 150W</td>
</tr>
</tbody>
</table>

Contact spec.
- Contact structure: 1A
- Contact resistance (initial): 30mΩ (Voltage drop through the DC24V1A France)
- Rated control capacity (resistance load): 5A 250V AC; 5A 30V DC
- Maximum permissible power: 1250VA, 150W
- Maximum permissible current: 5A
- Maximum permissible voltage: 250V AC; 110V DC
- Minimum applicable load: DC 100mA, 100mA

Service life:
- Mechanical service life: More than 20 million (Off frequency of 180 times/min)
- Electrical service life: 100,000 times or more (3A 250AC, 30VDC, Resistive load)

Minimum applicable load

<table>
<thead>
<tr>
<th>Mechanical service life</th>
<th>Electrical service life</th>
</tr>
</thead>
<tbody>
<tr>
<td>100,000 times or more</td>
<td>5A</td>
</tr>
</tbody>
</table>

Minimum volume

8bit relay module

Input and output of single-row terminal connection

Rated values/performance of inputs

<table>
<thead>
<tr>
<th>Rated current (mA)</th>
<th>Rated voltage (V)</th>
<th>Applicable wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.5</td>
<td>DC 24V</td>
<td>1.5 mm² Following /AWG 16</td>
</tr>
</tbody>
</table>

Rated values/performance of outputs

<table>
<thead>
<tr>
<th>Circuit structure</th>
<th>COM terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNOP</td>
<td>Maximum permissible current: 5A</td>
</tr>
</tbody>
</table>

Wire stripping length

6mm
Application Equipment and Accessories

4bit Relay Terminal Block

**TB302**

5-bit terminal block input terminal
- 4bit relay module
- Standalone COM port
- Panasonic PA series relay
- High efficiency and wiring saving

**Features:**
- The 4 relay module is used to minimize the volume.
- 5-bit terminal block as input terminal, single-row terminal block as output terminal, and each output contacts are provided with standalone COM port.
- LED operation display shall be used to visualize input and output status.
- The relay coil is completed with surge control loop, which extends service life of the relay module and minimizes electromagnetic interference.
- Panasonic PA series relay is used.

**Corresponding of input/output sides**

<table>
<thead>
<tr>
<th>Corresponding of input side</th>
<th>Corresponding of output side</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturers: Not limited</td>
<td>PLC Module: Not limited</td>
</tr>
<tr>
<td>Button (Solenoid, Photoelectric Switch, Encoder, Indicator, Stepping Servo Motor, etc.)</td>
<td></td>
</tr>
</tbody>
</table>

**Rated values/performance of inputs**

<table>
<thead>
<tr>
<th>Rated voltage (V)</th>
<th>DC24V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable wire</td>
<td>1.5 mm² Following AWG 16</td>
</tr>
<tr>
<td>Circuit structure</td>
<td>PNP</td>
</tr>
</tbody>
</table>

**Rated values/performance of outputs**

<table>
<thead>
<tr>
<th>Operation coil (each point of relay)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage (V)</td>
</tr>
<tr>
<td>-------------------</td>
</tr>
<tr>
<td>DC 24V</td>
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</tbody>
</table>

**Rated value/performance of inputs**

<table>
<thead>
<tr>
<th>Contact structure</th>
<th>1A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact resistance (initial)</td>
<td>30mΩ(Voltage drop through the DO8V1A Frame)</td>
</tr>
<tr>
<td>Rated control capacity (resistance load)</td>
<td>5A 250V AC ; 5A 30V DC</td>
</tr>
<tr>
<td>Maximum permissible power</td>
<td>1250VA, 150W</td>
</tr>
<tr>
<td>Maximum permissible current</td>
<td>5A</td>
</tr>
<tr>
<td>Maximum permissible voltage</td>
<td>250V AC ; 110V DC</td>
</tr>
<tr>
<td>Minimum applicable load</td>
<td>DC 100mV 100mA</td>
</tr>
<tr>
<td>COM terminal</td>
<td>Maximum permissible current</td>
</tr>
<tr>
<td>Service life</td>
<td>Mechanical service life</td>
</tr>
<tr>
<td>Electrical service life</td>
<td>100,000 times or more(3A 250AC, 30VDC, Resistive load)</td>
</tr>
</tbody>
</table>

**Corresponding of input/output sides**

**Wire stripping length**

<table>
<thead>
<tr>
<th>COM terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service life</td>
</tr>
</tbody>
</table>

**Shape Figure**

**Wiring Drawing**
**Application Equipment and Accessories**

**Relay Module**

**4bit Relay Terminal Block** TB303

### Features
- The 4 relay module is used to minimize the volume.
- 10P MIL as input terminal, single-row terminal block as output terminal, and each output contacts are provided with standalone COM port.
- LED operation display, visible input and output status;
- The relay coil is completed with surge control loop, which extends service life of the relay module and minimizes electromagnetic interference.
- Panasonic PA series relay is used.

### Corresponding of input/output sides

<table>
<thead>
<tr>
<th>Manufacturers</th>
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<tbody>
<tr>
<td>Panasonic</td>
<td>FP0-C16T/C16CT(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-E16T/P(OUT)</td>
</tr>
<tr>
<td>Or other brands of PLC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Solenoid, Indicator, Relay or Contactor</td>
</tr>
</tbody>
</table>

### Rated values/performance of inputs

#### Operation coil (each point of relay)

<table>
<thead>
<tr>
<th>Rated voltage (V)</th>
<th>Rated current (mA)</th>
<th>Coil resistance (Ω)</th>
<th>Rated voltage (V)</th>
<th>Maximum permissible voltage (V)</th>
<th>Rated consumption power (mW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC 24V</td>
<td>7.5mA</td>
<td>3000</td>
<td>More 70%</td>
<td>Following 5%</td>
<td>120%</td>
</tr>
</tbody>
</table>

#### Rated value/performance of outputs

**Switches (each point of the relay)**

**Contact structure** 1a

**Contact resistance (initial)** 30mΩ/Voltage drop through the DC4V1A France

**Rated control capacity (resistance load)** 5A: 250V AC ; 5A 30V DC

**Maximum permissible power** 1250VA, 150W

**Maximum permissible current** 5A

**Maximum permissible voltage** 250V AC ; 110V DC

**Minimum applicable load** DC 100mA 100μA

**COM terminal**

**Mechanical service life** More than 20 million/Off frequency of 180 times/min

**Electrical service life** 100,000 times or more/3A 250AC, 30VDC, Resistive load

### Wiring Drawing

**Shape Figure**

**Wire stripping length**

Before ordering, please confirm the load type and size, choose the suitable way to control.
4bit Relay Terminal Block

**TB304**

### Corresponding to PLC output modules
- Minimum volume
- Input and output are connected with terminals
- Contacts are of 1C contacts
- Built-in self-resetting fuse

### Features
- The module is corresponding to PLC output modules of all terminal wiring.
- The 4bit relay module is used, with minimum volume.
- The relay coil is built with self-resetting fuse, with short circuit and over-current protection fuse to avoid damaging PLC module.
- Standalone public terminal of output contact, with normally opened and closed contacts.

### Rated values/performance of inputs

<table>
<thead>
<tr>
<th>Rated voltage</th>
<th>DC24V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable wire</td>
<td>1.5 mm² Following /AWG 16</td>
</tr>
<tr>
<td>Circuit structure</td>
<td>NPN</td>
</tr>
</tbody>
</table>

### Corresponding of input/output sides

- **Corresponding of input side**
  - Manufacturers: Not limited
  - PLC Module: Not limited

- **Corresponding of output side**
  - Solenoid, Warning, Relay or Contactor

### Rated values/performance of outputs

#### Operation coil (each point of relay)

<table>
<thead>
<tr>
<th>Rated voltage (V)</th>
<th>Rated current (mA)</th>
<th>Coil resistance (Ω)</th>
<th>Operation voltage (V)</th>
<th>Resetting voltage (V)</th>
<th>Maximum permissible voltage (V)</th>
<th>Maximum permissible current (A)</th>
<th>Rated consumption power (mW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC 24V</td>
<td>16.7 mA</td>
<td>14000</td>
<td>More 80%</td>
<td>Following 5%</td>
<td>130%</td>
<td>400mW</td>
<td></td>
</tr>
</tbody>
</table>

#### Rated values (each point of the relay)

<table>
<thead>
<tr>
<th>Contact structure</th>
<th>1a/1b</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact resistance (initial)</td>
<td>100mΩ (Voltage drop through the DC5V/1A France)</td>
</tr>
<tr>
<td>Rated control capacity (resistance load)</td>
<td>No side 5A 250V AC  2A 250V AC  3A 30V AC</td>
</tr>
<tr>
<td>Maximum permissible power</td>
<td>NO 625VA  30W NC 250VAC 30W</td>
</tr>
<tr>
<td>Maximum permissible current</td>
<td>NO 5A NC 2A</td>
</tr>
<tr>
<td>Maximum permissible voltage</td>
<td>250V AC  110V DC</td>
</tr>
<tr>
<td>Minimum applicable load</td>
<td>DC 100mv 100µA</td>
</tr>
<tr>
<td>COM terminal</td>
<td>Maximum permissible current</td>
</tr>
<tr>
<td>Service life</td>
<td>Mechanical service life</td>
</tr>
<tr>
<td></td>
<td>Electrical service life</td>
</tr>
</tbody>
</table>

### Contact spec.

- **Rated consumption power (mW)**
  - More than 107 million (Off frequency of 180 times/min)
  - 100,000 times or more (3A 250V AC, 30V DC, Resistive load)

### Attention

- Before ordering, please confirm the load type and size, choose the suitable way to control.

### Wiring Drawing
**8bit Relay Terminal Block**

**TB305**

- Corresponding to PLC output modules
  - Minimum volume
  - 8bit relay module
  - Single-row terminal connection

**Features**
- The module is corresponding to PLC output module of all terminal wiring.
- The 8 relay module is used to minimize the volume.
- Single-row terminal block as input terminal, and 10P connector as output terminal.
- LED operation display, input and output status is visible.
- The relay coil is completed with surging inhibition loop, extends service life of relay module and minimizes electromagnetic disturbance of the circuit.
- Panasonic PA series relay is used.

**Corresponding of input/output sides**

<table>
<thead>
<tr>
<th>Corresponding of input side</th>
<th>Manufacturers</th>
<th>PLC Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corresponding of output side</td>
<td>TB202</td>
<td></td>
</tr>
</tbody>
</table>

**Rated values/performance of inputs**

<table>
<thead>
<tr>
<th>Operation coil (each point of relay)</th>
<th>Rated current (mA)</th>
<th>Operation voltage (V)</th>
<th>Rated voltage (V)</th>
<th>Rated consumption power (mW)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7.5mA</td>
<td>3200Ω</td>
<td>More than 70%</td>
<td>Following 5%</td>
</tr>
</tbody>
</table>

**Rated values/performance of outputs**

<table>
<thead>
<tr>
<th>Contact structure</th>
<th>Contact resistance (initial)</th>
<th>Rated control capacity (resistance load)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>30Ω (Voltage drop through the DCR of 1A)</td>
<td>5A 250V AC ; 5A 30V DC</td>
</tr>
<tr>
<td>Maximum permissible power</td>
<td>1250VA, 150W</td>
<td></td>
</tr>
<tr>
<td>Maximum permissible current</td>
<td>5A</td>
<td></td>
</tr>
<tr>
<td>Maximum permissible voltage</td>
<td>250V AC ; 110V DC</td>
<td></td>
</tr>
<tr>
<td>Minimum applicable load</td>
<td>DC 100mA, 100mA</td>
<td></td>
</tr>
<tr>
<td>COM terminal</td>
<td>Maximum permissible current</td>
<td>5A</td>
</tr>
<tr>
<td>Service life</td>
<td>Mechanical service life</td>
<td>More than 20 million</td>
</tr>
<tr>
<td></td>
<td>Electrical service life</td>
<td>100,000 times or more; (3A 250V AC, 30V DC, Resistor load)</td>
</tr>
</tbody>
</table>

**Shape Figure**

**Wiring Drawing**

**Wire stripping length**

6mm

---

**Before ordering, please confirm the load type and size, choose the suitable way to control.**
Application Equipment and Accessories

8bit Relay Terminal Block TB306

**Corresponding to PLC output modules**
- Minimum volume
- 8bit relay module
- Single-row terminal connection

**Features**
- The 8 relay module is used to minimize the volume.
- 10P MIL is used as input terminal, single-row terminal row as output terminal, and the output terminal is reserved with 2 COM ports.
- LED operation display, and input and output status are visible.
- The relay coil is completed with surging inhibition loop, extends service life of relay module and minimizes electromagnetic disturbance of the circuit.
- Panasonic PA series relay is used.

**Rated values/performance of inputs**

<table>
<thead>
<tr>
<th>Contact structure</th>
<th>Mechanical resistance (initial)</th>
<th>Rated control capacity (resistance load)</th>
<th>Maximum permissible current</th>
<th>Maximum permissible voltage</th>
<th>Minimum applicable load</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a</td>
<td>30mΩ(Voltage drop through the D01Y1A.France)</td>
<td>5A 250V AC : 5A 30V DC</td>
<td>5A</td>
<td>250V AC : 110V DC</td>
<td>DC 100mv 100uA</td>
</tr>
</tbody>
</table>

**Contact resistance (initial)**

<table>
<thead>
<tr>
<th>Contact resistance (initial)</th>
<th>Rated control capacity (resistance load)</th>
<th>Maximum permissible current</th>
<th>Maximum permissible voltage</th>
<th>Minimum applicable load</th>
</tr>
</thead>
<tbody>
<tr>
<td>30mΩ(Voltage drop through the D01Y1A.France)</td>
<td>5A 250V AC : 5A 30V DC</td>
<td>5A</td>
<td>250V AC : 110V DC</td>
<td>DC 100mv 100uA</td>
</tr>
</tbody>
</table>

**Service life**

- Mechanical service life
  - More than 20 million(Off frequency of 180 times/min)
- Electrical service life
  - 100,000 times or more(3A DC 250VAC,30VDC Resistive load)

**Rated values/performance of outputs**

<table>
<thead>
<tr>
<th>Rated voltage (V)</th>
<th>Rated current (mA)</th>
<th>Coil resistance (Ω)</th>
<th>Operation voltage (V)</th>
<th>Resetting voltage (V)</th>
<th>Maximum permissible voltage (V)</th>
<th>Rated consumption power (mW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC 24V</td>
<td>7.5mA</td>
<td>320Ω</td>
<td>More 70%</td>
<td>Following 5%</td>
<td>120%</td>
<td>180mW</td>
</tr>
</tbody>
</table>

**Shape Figure**

**Wiring Drawing**

Corresponding at input/output sides

- Panasonic
- FP0-C16T/C16CT(OUT) FP0-C16P/C16CP(OUT)
- FP0-C32T/C32CT(OUT) FP0-C32P/C32CP(OUT)
- FP0-E16T/P(OUT) FP0-E18YT

Corresponding of input side
- FP0-E32T/P(OUT)
- Or PLC of other brands

Corresponding of output side
- Solenoid, Indicator, Relay or Contactor
8bit Relay Terminal Block

**TB307**

**Corresponding to PLC output modules**
- Minimum volume
- 8bit relay module
- 10P MIL connection

**Features**
- The 8 relay module is used to minimize the volume.
- MIL connection socket is used for input and output for remote wiring connection.
- LED operation display, and input and output status are visible.
- The relay coil is completed with surging inhibition loop, extends service life of relay module and minimizes electromagnetic disturbance of the circuit.
- Panasonic PA series relay is used.

**Rated values/performance of inputs**

<table>
<thead>
<tr>
<th>Rated voltage</th>
<th>DC24V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable wire</td>
<td>1.5 mm² Following AWG 16</td>
</tr>
<tr>
<td>Circuit structure</td>
<td>NPN</td>
</tr>
</tbody>
</table>

**Corresponding at input/output sides**

<table>
<thead>
<tr>
<th>Manufacturers</th>
<th>PLC Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panasonic</td>
<td>FP0-C16T/C16C(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-C16P/C16P(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-C16YT</td>
</tr>
<tr>
<td></td>
<td>FP0-C32T/C32CT/T32CT(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-C32PC/C32CP/T32CP(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-E16T/P(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-E16YT</td>
</tr>
<tr>
<td>Dr. PLC of other brands</td>
<td>FP0-C16T/C16C(OUT)</td>
</tr>
<tr>
<td>Solenoid, Indicator, Relay or Contactor</td>
<td>FP0-C16P/C16P(OUT)</td>
</tr>
</tbody>
</table>

**Rated values/performance of inputs**

<table>
<thead>
<tr>
<th>Operation coil (each point of relay)</th>
<th>Rated voltage (V)</th>
<th>Rated current (mA)</th>
<th>Coil resistance (Ω)</th>
<th>Operation voltage (V)</th>
<th>Resetting voltage (V)</th>
<th>Maximum permissible voltage (V)</th>
<th>Rated consumption power (mW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC 24V</td>
<td>7.5mA</td>
<td>3.2kΩ</td>
<td>More 70%</td>
<td>Following 5%</td>
<td>120%</td>
<td>180mW</td>
<td></td>
</tr>
</tbody>
</table>

**Rated values/performance of outputs**

<table>
<thead>
<tr>
<th>Contact structure</th>
<th>1a</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact resistance (initial)</td>
<td>30mΩ(Voltage drop through the DOCVT, France)</td>
</tr>
<tr>
<td>Rated control capacity (resistance load)</td>
<td>5A 250V AC : 5A 30V DC</td>
</tr>
<tr>
<td>Maximum permissible power</td>
<td>1250VA, 150W</td>
</tr>
<tr>
<td>Maximum permissible current</td>
<td>5A</td>
</tr>
<tr>
<td>Maximum permissible voltage</td>
<td>250V AC : 110V DC</td>
</tr>
<tr>
<td>Minimum applicable load</td>
<td>DC 100mv 100mA</td>
</tr>
<tr>
<td>COM terminal</td>
<td>Maximum permissible current</td>
</tr>
<tr>
<td>Service life</td>
<td>Mechanical service life</td>
</tr>
<tr>
<td></td>
<td>Electrical service life</td>
</tr>
</tbody>
</table>

**Shape Figure**

**Wiring Drawing**

---

**Corresponding at input/output sides**

<table>
<thead>
<tr>
<th>Manufacturers</th>
<th>PLC Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panasonic</td>
<td>FP0-C16T/C16C(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-C16P/C16P(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-C16YT</td>
</tr>
<tr>
<td></td>
<td>FP0-C32T/C32CT/T32CT(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-C32PC/C32CP/T32CP(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-E16T/P(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-E16YT</td>
</tr>
<tr>
<td>Dr. PLC of other brands</td>
<td>FP0-C16T/C16C(OUT)</td>
</tr>
<tr>
<td>Solenoid, Indicator, Relay or Contactor</td>
<td>FP0-C16P/C16P(OUT)</td>
</tr>
</tbody>
</table>

---

**Corresponding at input/output sides**

<table>
<thead>
<tr>
<th>Manufacturers</th>
<th>PLC Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panasonic</td>
<td>FP0-C16T/C16C(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-C16P/C16P(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-C16YT</td>
</tr>
<tr>
<td></td>
<td>FP0-C32T/C32CT/T32CT(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-C32PC/C32CP/T32CP(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-E16T/P(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-E16YT</td>
</tr>
<tr>
<td>Dr. PLC of other brands</td>
<td>FP0-C16T/C16C(OUT)</td>
</tr>
<tr>
<td>Solenoid, Indicator, Relay or Contactor</td>
<td>FP0-C16P/C16P(OUT)</td>
</tr>
</tbody>
</table>

---

**Corresponding at input/output sides**

<table>
<thead>
<tr>
<th>Manufacturers</th>
<th>PLC Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panasonic</td>
<td>FP0-C16T/C16C(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-C16P/C16P(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-C16YT</td>
</tr>
<tr>
<td></td>
<td>FP0-C32T/C32CT/T32CT(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-C32PC/C32CP/T32CP(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-E16T/P(OUT)</td>
</tr>
<tr>
<td></td>
<td>FP0-E16YT</td>
</tr>
<tr>
<td>Dr. PLC of other brands</td>
<td>FP0-C16T/C16C(OUT)</td>
</tr>
<tr>
<td>Solenoid, Indicator, Relay or Contactor</td>
<td>FP0-C16P/C16P(OUT)</td>
</tr>
</tbody>
</table>
50bit Terminal Block

**TBB02**

**Corresponding to 50P SCSI connector**
- 1 to 1 pin wiring
- Use signal wire interface of the servo driver
- Save time

**Features**
- The wiring board is corresponding to 50P SCSI connector.
- It is directly used for signal wire interface of servo drivers of Yaskawa, Mitsubishi, Panasonic, Delta, Sanyo AB etc.
- Without soldering wire, only 1 to 1 pin wire is used.
- Save time and avoid incorrect welding.

**Rated values/performances of inputs**

<table>
<thead>
<tr>
<th>Rated voltage</th>
<th>1A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable wire</td>
<td>DC24V</td>
</tr>
<tr>
<td>Circuit structure</td>
<td>1.5 mm² Following AWG 16</td>
</tr>
</tbody>
</table>

**Wiring Drawing**

- Corresponding to 50P SCSI connector
- Use signal wire interface of servo drivers of Yaskawa, Mitsubishi, Panasonic, Delta, Sanyo AB etc.
- Without soldering wire, 1 to 1 pin wire is used.
- Save time and avoid incorrect welding.

**Attentions**
- Before ordering, please confirm the load type and size, choose the suitable way to control.

**Wire stripping length**

- 6mm
100bit Terminal Block

TBB03

**Corresponding to 100P SCSI Connector**
- 1 to 1 pin wiring
- Use signal wire interface of servo driver
- Save time

**Features**
- The wiring board is corresponding to SCSI connector of 100P.
- It is directly used for PCI board card output adaptation and signal wire interface of servo driver.
- It replaces 64bit IO card wiring board of Advantech and Adlinktech.
- Without wiring, only the 1 to 1 pin wire is connected.
- Save time and avoid incorrect wiring.

**Applicable IO card models**

<table>
<thead>
<tr>
<th></th>
<th>Advantech</th>
<th>Adlinktech</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCI-1756, PCI-1752U, PCI-1754</td>
<td>PCI-7432, PCI-7433, PCI-7434</td>
<td></td>
</tr>
</tbody>
</table>

**Shape Figure**

**Wiring Drawing**

<table>
<thead>
<tr>
<th>Attributes</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated current</td>
<td>1A</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>DC24V</td>
</tr>
<tr>
<td>Applicable wire</td>
<td>1.5 mm² Following J/AWG 16</td>
</tr>
</tbody>
</table>

**Attentions**
- Before ordering, please confirm the load type and size, choose the suitable way to control.

**Wire stripping length**

5mm
16-bit Conversion Terminal Block

**TBB04**

**Bi-directional Connection and Use**
- 2 groups of 10P connector
- High efficient and economize wiring connections
- Flexible application

**Features:**
- 2 groups of 10P connectors are used—corresponding to 10P terminal blocks, not distinguish input/output, bi-directional connection and use.
- The connecting board is mainly used for connecting, with the Company’s other products, efficient and wiring saving connection is realized.
- Fully yield the flexible operation.

**Rated values/performance of inputs**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated current</td>
<td>1A</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>DC24V</td>
</tr>
<tr>
<td>Applicable wire</td>
<td>1.5 mm² Following AWG-16</td>
</tr>
</tbody>
</table>

**Corresponding of input/output sides**

**Manufacturers**
- KEYENCE
  - KV-B16A/1XC
  - KV-series of small PLC
  - FP0-C16T/C16CT (In Ministry)
  - FP0-C16PIC16CP (In Ministry)
  - FP0-C32T/C32CT/T32CT (In Ministry)
  - FP0-C32PIC32CP/T32CP (In Ministry)
  - FP0-E16T/P (In Ministry)
  - FP0-E32T/P (In Ministry)
  - FP0-E8X
  - FP0-E16X
  - FP0-E16X

**Panasonic**
- FP-E-C28 (In Ministry)
- FP-E-C32 (In Ministry)
- FP0-C16T/C16CT (Out Ministry)
- FP0-C16PIC16CP (Out Ministry)
- FP0-C32T/C32CT/T32CT (Out Ministry)
- FP0-C32PIC32CP/T32CP (Out Ministry)
- FP0-E16T/P (Out Ministry)
- FP0-E32T/P (Out Ministry)
- FP0-E8X
- FP0-E16X
- FP0-E16X

**Hitachi**
- FPE-28 (Out Ministry)
- FPE-32 (Out Ministry)

**Corresponding of input side**
- Button Switch, Photoelectric Switch, Solenoid, Indicator, Stepping Servo Motor, etc.

**Shape Figure**

**Wiring Drawing**
**16bit Conversion Terminal Block**

**TBB04-N**

- **Bi-directional Connection and Use**
  - 2 groups of 10P connector
  - High efficient and economize wiring connections
  - With LED lamp
  - Flexible application

**Features**

- 2 groups of 10P connectors are used—corresponding to 10P terminal blocks, not sensitive input/output, bi-directional connection and use.
- The connecting board is mainly used for connecting, with the Company’s other products, efficient and wiring saving connection is realized.
- With LED lamp, the working status is visible.
- Put flexibility application to the extreme.

**Rated values/performance of inputs**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated current</td>
<td>1A</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>DC24V</td>
</tr>
<tr>
<td>Applicable wire</td>
<td>1.5 mm² Following AWG 16</td>
</tr>
<tr>
<td>Circuit structure</td>
<td>NPN</td>
</tr>
</tbody>
</table>

**Wire stripping length**

- Before ordering, please confirm the load type and size, choose the suitable way to control.

---

**Corresponding of input/output sides**

**Corresponding of input side**

- Manufacturers: KEYENCE
  - KV-B16XA/XC
  - KV-series of small PLC
  - FP0-C16T/C16CT (In Ministry)
  - FP0-C16P/C16CP (In Ministry)
  - FP0-C32T/C32CT/T32CT (In Ministry)
  - FP0-C32P/C32CP/T32CP (In Ministry)
  - FP0-E16T/P (In Ministry)
  - FP0-E32T/P (In Ministry)
  - FP0-ESX
  - Panasonic
    - FPP-C28 (In Ministry)
    - FPP-C32 (In Ministry)
    - FP0-C16T/C16CT (Out Ministry)
    - FP0-C16P/C16CP (Out Ministry)
    - FP0-C32T/C32CT/T32CT (Out Ministry)
    - FP0-C32P/C32CP/T32CP (Out Ministry)
    - FP0-E16T/P (Out Ministry)
    - FP0-E32T/P (Out Ministry)
    - FP0-ESY
    - FP0-E16Y
    - FPP-C32 (Out Ministry)
    - FPP-C28 (Out Ministry)

**Corresponding of output side**

- Manufacturers: Panasonic
  - FP0. FP series
    - FP0-C16T/P
    - FP0-C32T/P
    - FP0-E16T/P
    - FP0-E32T/P
  - FP0-C16X
  - FP0-C32X
  - FP0-C16X
  - FP0-C32X

**Shape Figure**

- 2~4.5

**Wiring Drawing**

[Diagram of Wiring]
37bit Terminal Block

**TBB05**

- Corresponding to 37P D-SUB Connector
  - 1 to 1 pin wiring
  - Used for signal wire interface of servo driver
  - Save time

**Features**
- The wiring is corresponding to 37P D-SUB connector.
- It is directly used for signal wire interface of PCI board card output adaptation and servo driver.
- Without welding, only 1 to 1 pin wire is used for connection. Save time and avoid incorrect welding.

<table>
<thead>
<tr>
<th>Rated values/performance of inputs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rated current</strong></td>
</tr>
<tr>
<td><strong>Rated voltage</strong></td>
</tr>
<tr>
<td><strong>Applicable wire</strong></td>
</tr>
</tbody>
</table>

**Wiring Drawing**

**Shape Drawing**

**Applicable I/O card models**
- Advantech
- Applicable for Advantech PCI board card series

**Attentions**
- Before ordering, please confirm the load type and size, choose the suitable way to control.

**Wire stripping length**

- 8mm
Application Equipment and Accessories

44bit Terminal Block

**TBB06**

**Corresponding to 44P HDB Connector**
- 1 to 1 pin wiring
- Used for signal wire interface of servo driver
- Save time

**Features**
- The wiring is corresponding to 44P HDB connector.
- It is directly used for signal wire interface of PCI board card output adaptation and servo driver.
- Without welding, only 1 to 1 pin wire is used for connection. Save time and avoid incorrect welding.

**Rated values/performance of inputs**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Rated current</td>
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<tr>
<td>Rated voltage</td>
<td>DC24V</td>
</tr>
<tr>
<td>Applicable wire</td>
<td>1.5 mm² Following AWG 16</td>
</tr>
</tbody>
</table>

**Wiring Drawing**

**Shape Figure**

**Atentions**
- Before ordering, please confirm the load type and size, choose the suitable way to control.

**Applicable brands**
- Applicable for APE MC1104 board card
- Applicable for Delta B2 series servo
- Inovance
- INVT
- Applicable for Leadshine L5 series

**Applicable servo servers**

**Wire stripping length**

- 6mm
25bit Terminal Block

TBB07

Corresponding to 25 D-SUB Connector

- 1 to 1 pin wiring
- Used for signal wire interface of servo driver
- Save time

Features

- The wiring is corresponding to 25P D-SUB connector
- It is directly used for signal wire interface of PCI board card output adaptation and servo driver.
- Without welding, only 1 to 1 pin wire is used for connection. Save time and avoid incorrect welding.

Rated values/performance of inputs

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated current</td>
<td>1A</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>DC24V</td>
</tr>
<tr>
<td>Applicable wire</td>
<td>1.5 mm² Following /AWG 16</td>
</tr>
</tbody>
</table>

Attentions

- Before ordering, please confirm the load type and size, choose the suitable way to control.

Wire stripping length

6mm

Applicable brands

- APE
- Panasonic A4/A5
- Mitsubishi Mr-J3
- Delta
- Yaskawa

Applicable servo control

APE
Panasonic A4/A5
Mitsubishi Mr-J3
Delta
Yaskawa

Shape Figure

Wiring Drawing