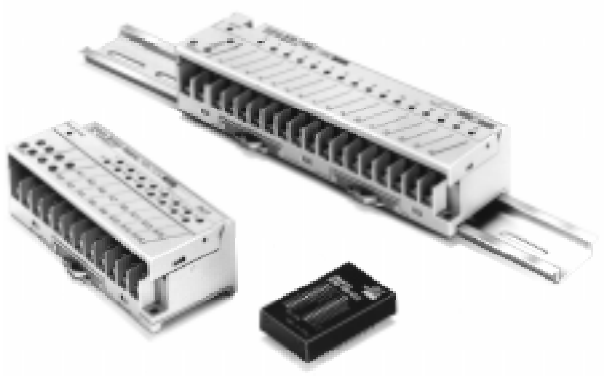
OMRON

# Transistor I/O Link Modules

**B7A/B7AS**

## Reduce Wiring Back to PLC Rack for 32 I/O Points

- Transmit 16 input signals over just 2 wires (3 wires if only one terminal has a power supply)
- Normal I/O delay (19.2 ms typical) or short I/O delay (3 ms typical) models
- Output models offer Hold or Load Off options for handling transmission errors
- Compact B7AS measures 30% shorter than conventional 16-point blocks
- Printed circuit board models available



# Ordering Information

## ■ MODEL NUMBER LEGEND

### Input Models

**B7A□ - T 6 □ □**
**1 2 3 4 5**

**1. Series**
None: Standard
S: Small

**2. Input/Output Classification**
T: Input

**3. Number of I/O Points**
6: 16

**4. Input Logic/Internal I/O Common**

| 4 | Input logic | Internal I/O common |
|---|---|---|
| A | NPN compatible | – common |
| B | NPN compatible | +/– common |
| C | PNP compatible | +/– common |
| D | PNP (TTL) compatible | ––– |

**5. I/O Delay Time (Typical)/Appearance**

| 5 | I/O delay | Appearance |
|---|---|---|
| 1 | 19.2 ms | Screw terminals |
| 2 | 19.2 ms | Printed circuit board model |
| 6 | 3 ms | Screw terminals |
| 7 | 3 ms | Printed circuit board model |

### Output Models

**B7A□ - R 6 □ □ □**
**1 2 3 4 5 6**

**1. Series**
None: Standard
S: Small

**2. Input/Output Classification**
R: Output

**3. Number of I/O Points**
6: 16

**4. Output Logic/Output Capacity**

| 3 | Output logic | Output capacity |
|---|---|---|
| A | NPN open collector | 0.05 A/point |
| B | NPN open collector | 0.1 A/point |
| C | NPN open collector | 0.5 A/point |
| F | PNP open collector | 0.1 A/point |
| G | PNP open collector | 0.5 A/point |

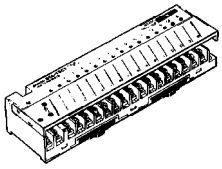
**5. Error Processing**
1: HOLD
3: LOAD OFF
5: HOLD/LOAD OFF

**6. I/O Delay (Typical)/Appearance**

| 5 | I/O delay time | Appearance |
|---|---|---|
| 1 | 19.2 ms | Screw terminals |
| 2 | 19.2 ms | Printed circuit board model |
| 6 | 3 ms | Screw terminals |
| 7 | 3 ms | Printed circuit board model |

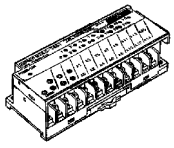
## ■ 16-POINT LINK MODULES

**Screw Terminal Models**

| Appearance | I/O classification | I/O configuration | I/O delay (typical) | Internal I/O common | Error processing (See Note 1) | Part number |
|---|---|---|---|---|---|---|
|  | Input | NPN compatible | Normal speed 19.2 ms | – common | --- | **B7A-T6A1** (See Note 2) |
| | | | | +/– common | --- | **B7A-T6B1** (See Note 2) |
| | | PNP compatible | | +/– common | --- | **B7A-T6C1** |
| | | NPN compatible | High speed 3 ms | – common | --- | **B7A-T6A6** (See Note 2) |
| | | | | +/– common | --- | **B7A-T6B6** (See Note 2) |
| | | PNP compatible | | +/– common | --- | **B7A-T6C6** |
| | Output | NPN open collector 100 mA/point | Normal speed 19.2 ms | + common | HOLD | **B7A-R6B11** |
| | | | | | LOAD OFF | **B7A-R6B31** |
| | | NPN open collector 500 mA/point (See Note 3) | | | HOLD | **B7A-R6C11** |
| | | | | | LOAD OFF | **B7A-R6C31** |
| | | PNP open collector 100 mA/point | | – common | HOLD | **B7A-R6F11** |
| | | | | | LOAD OFF | **B7A-R6F31** |
| | | PNP open collector 500 mA/point (See Note 4) | | | HOLD | **B7A-R6G11** |
| | | | | | LOAD OFF | **B7A-R6G31** |
| | | NPN open collector 100 mA/point | High speed 3 ms | + common | HOLD | **B7A-R6B16** |
| | | | | | LOAD OFF | **B7A-R6B36** |
| | | NPN open collector 500 mA/point (See Note 3) | | | HOLD | **B7A-R6C16** |
| | | | | | LOAD OFF | **B7A-R6C36** |
| | | PNP open collector 100 mA/point | | – common | HOLD | **B7A-R6F16** |
| | | | | | LOAD OFF | **B7A-R6F36** |
| | | PNP open collector 500 mA/point (See Note 4) | | | HOLD | **B7A-R6G16** |
| | | | | | LOAD OFF | **B7A-R6G36** |

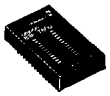
Note: 1. HOLD: The previous output condition will be on hold when an error occurs.
LOAD OFF: All outputs will be OFF when an error occurs.
2. The 16-point B7A-T6A□ and 16-point B7A-T6B□ are different from each other in terminal configuration.

**Small Screw Terminal Models**

| Appearance | I/O classification | I/O configuration | I/O delay (typical) | Internal I/O common | Error processing (See Note 1) | Part number |
|---|---|---|---|---|---|---|
|  | Input | NPN compatible | Normal speed 19.2 ms | +/– common | --- | **B7AS-T6B1** |
| | | | High speed 3 ms | | --- | **B7AS-T6B6** |
| | Output | NPN open collector 100 mA/point | Normal speed 19.2 ms | | HOLD | **B7AS-R6B11** |
| | | | | | LOAD OFF | **B7AS-R6B31** |
| | | | High speed 3 ms | | HOLD | **B7AS-R6B16** |
| | | | | | LOAD OFF | **B7AS-R6B36** |

Note: 1. HOLD: The previous output condition will be on hold when an error occurs.
LOAD OFF: All outputs will be OFF when an error occurs.
2. The 16-point B7A-T6A□ and 16-point B7A-T6B□ are different from each other in terminal configuration.
3. N-channel MOS FET open drain output
4. P-channel MOS FET open drain output

**Printed Circuit Board Models**

| Appearance | I/O classification | I/O configuration | I/O delay (typical) | Error processing (See Note) | Part number |
|---|---|---|---|---|---|
|  | Input | TTL input | Normal speed 19.2 ms | --- | **B7A-T6D2** |
| | | | High speed 3 ms | --- | **B7A-T6D7** |
| | Output | NPN open collector 50 mA/point | Normal speed 19.2 ms | HOLD/LOAD OFF selected by wiring | **B7A-R6A52** |
| | | | High speed 3 ms | | **B7A-R6A57** |

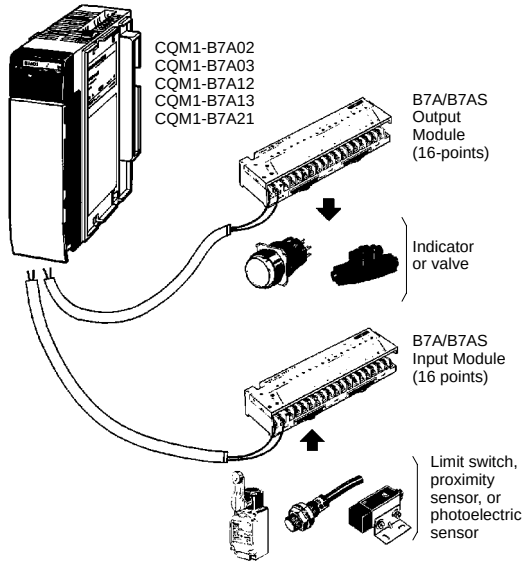
Note: HOLD: The previous output condition will be on hold when an error occurs.
LOAD OFF: All outputs will be OFF when an error occurs.

## ■ POWER SUPPLIES

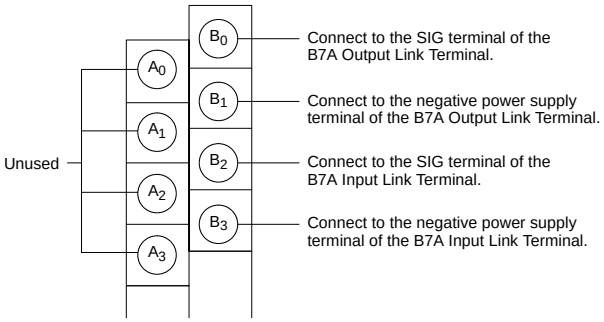
| Input voltage | Output rating | Application | Part number |
|---|---|---|---|
| 120 to 240 VAC | 0.13 A, 24 VDC | Use one to power each input or output block | **S82K-00324** |
| | 0.3 A, 24 VDC | Use one to power two blocks from a single power supply | **S82K-00724** |
| | 0.6 A, 24 VDC | Use this to power blocks connected to sensors, relays indicator lights | **S82K-01524** |
| | 1.3 A, 24 VDC | Use one where excess power is needed | **S82K-03024** |

# Application Examples

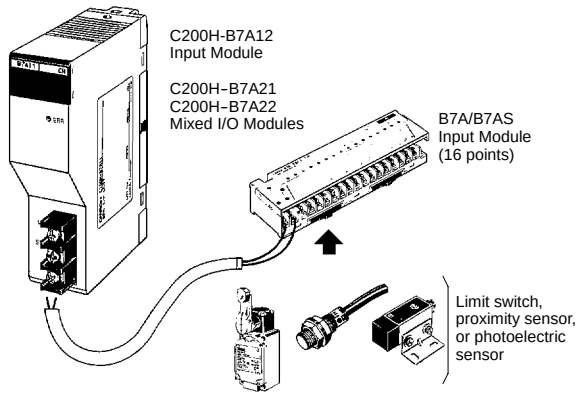
**CQM1 B7A Master Link Modules**

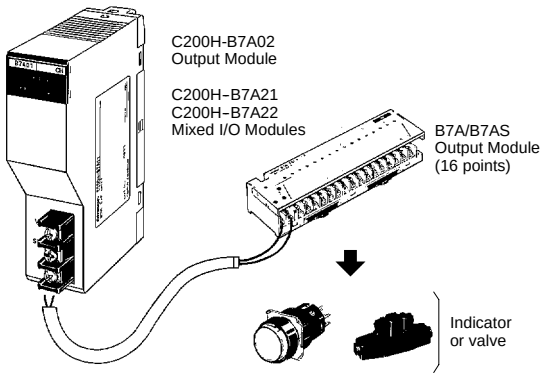



**CQM1 Connecting Terminals**




**C200H B7A Master Link Modules**




Note: B7A-series high-speed models cannot be used with C200H-B7AI1 and C200H-B7AO1.

# Specifications

## ■ CHARACTERISTICS

### General

| Item | Normal speed | High speed |
|---|---|---|
| **Communication method** | Unidirectional, time-division multiplex | |
| **Transmission distance** (See Note 1) | 500 m max. | 100 m max. (See Note 2) |
| **I/O delay** | Typical: 19.2 ms; 31 ms max. | Typical: 3 ms; 5 ms max. |
| **Minimum input time** (See Note 3) | 16 ms | 2.4 ms |
| **Operating voltage range** | 12 to 24 VDC (10.8 to 26.4 VDC) (See Note 1) | |
| **Insulation resistance** | 100 MΩ min. at 500 V between each terminal and external parts | |
| **Dielectric strength** | 1,000 VAC, 50/60 Hz for 1 min between each terminal and external parts | |
| **Noise immunity** (See Note 4) | Noise level: 1.5 kV; pulse width: 100 ns to 1 μs (on transmission line due to coupling) | |
| **Vibration resistance** | 10 to 55 Hz, 1.5 mm double amplitude | |
| **Shock resistance** | 300 $m/s^2$ (approx. 30G) | |
| **Ambient temperature** | Operating: −10°C to 55°C (14°F to 131°F) with no icing<br>Storage: −25°C to 65°C (−13°F to 149°F) with no icing | |
| **Ambient humidity** | Operating: 35% to 85% with no condensation | |

Note: 1. The transmission distance values stated in this table are based on one power supply attached to each Input or Output Link Terminal. If two Input or Output Link Terminals share one power supply, the transmission distance will be derated, and the voltage must be 24 VDC ±10%. The derated transmission distance for normal-speed models is 100 m maximum and that of a high-speed model is 50 m maximum. Additional information on power supply connections follows in Operation section.

2. A shielded transmission cable or plain twisted pair cable with a thickness of 0.75 $mm^2$ minimum must be used for signal transmission. If twisted pair cable is used, however, the transmission distance will be 10 m maximum regardless of whether or not independent power supplies for the Input and the Output Link Terminals are used.
3. The minimum input time is required for the B7A/B7AS to read an input signal.
4. For high-speed models, these values are possible without grounding the shielded line.

### Input Models

| Item | Screw terminal models | | |
|---|---|---|---|
| | **B7A-T6A1/-T6A6** | **B7A-T6B1/-T6B6** | **B7AS-T6B1/-T6B6** |
| **Compatible inputs** | Switches, two-wire sensors with DC output, three-wire NPN sensors (See Note 1) | | |
| **Input logic** | Active low | | |
| **I/O delay** | B7A□-T6□1: standard (typical 19.2 ms); B7A□-T6□6: high speed (typical 3 ms) | | |
| **Current consumption** | 120 mA max. with all input terminals ON (See Note 2) | | |
| **Operating voltage range** | 12 to 24 VDC | | |
| **Input voltage range** | 0 VDC to supply voltage | | |
| **Input current range** | −6 to −3 mA/point (current flowing from input terminals) | | |
| **Minimum input time** | B7A□-T6□1: 16 ms; B7A□-T6□6: 2.4 ms | | |
| **ON/OFF threshold** | No-contact input:<br>ON voltage: 4 V max.<br>OFF voltage: 6 V min.<br>Contact input:<br>ON discrimination resistance: 660 Ω max.<br>OFF discrimination resistance: 2 kΩ min. | | |
| **Mounting strength** | No damage when 5 kgf (49 N) pull is applied for 1 min each in all directions (except in direction of DIN rail) | | |
| **Terminal strength** | No damage when 5 kgf (49 N) pull is applied each in all directions | | |
| **Tightening torque** | 8 to 12 kgf • cm (0.78 to 1.18 N • m) | | |
| **Weight** | Approx. 160 g | | Approx. 130 g |

Note: 1. All B terminals of the B7A-T6A□ are negative terminals; power must be supplied to the three-wire sensor via the positive power supply terminal or from an independent power supply.
Two-wire sensors must satisfy the following requirements:
Residual voltage: 4 V max.
Current leakage: 1.5 mA max.
The lower limit of control output: 3 mA (Use a breeder resister to eliminate this restriction.)

2. Consumption when all 16 points are ON. Excludes external sensor current for Input Terminals.

### Input Models continued

| Item | Screw terminal models | Printed circuit board models |
|---|---|---|
| | B7A-T6C1/-T6C6 | B7A-T6D2/-T6D7 |
| **Compatible inputs** | Switches, two-wire sensors with DC output, three-wire PNP sensors | TTLs, switches, 3-wire PNP sensors (See Note 2) |
| **Input logic** | Active high | |
| **I/O delay** | B7A-T6C1: standard (typical 19.2 ms); B7A-T6C6: high speed (typical 3 ms) | B7A-T6D2: standard (typical 19.2 ms); B7A-T6D7: high speed (typical 3 ms) |
| **Current consumption** (See Note 3) | 120 mA max. with all input terminals ON | 60 mA max. with all input terminals ON |
| **Operating voltage range** | 12 to 24 VDC | |
| **Input voltage range** | 0 VDC to supply voltage | |
| **Input current range** | 3 to 6 mA/point | 0.2 to 2 mA/point (input voltage: 5 to 24 VDC) |
| **Minimum input time** (See Note 4) | B7A-T6C1: 16 ms; B7A-T6C6: 2.4 ms | B7A-T6D2: 16 ms; B7A-T6D7: 2.4 ms |
| **ON/OFF threshold** | No-contact input:<br>ON voltage: –4 V max.<br>OFF voltage: –6 V min.<br>Contact input:<br>ON discrimination resistance: 660 Ω max.<br>OFF discrimination resistance: 2 kΩ min. | ON voltage: 2.2 V min.<br>OFF voltage: 0.8 V max. |
| **Mounting strength** | No damage when 5 kgf (49 N) pull is applied for 1 min each in all directions (except in direction of DIN track) | --- |
| **Terminal strength** | No damage when 5 kgf (49 N) pull is applied each in all directions | --- |
| **Tightening torque** | 8 to 12 kgf • cm (0.78 to 1.18 N • m) | --- |
| **Weight** | Approx. 160 g | Approx. 23 g |

Note: 1. If there is a possibility of noise interference from the power supply, input, and/or output lines, add appropriate noise protection circuits. Refer to *Noise Protection Circuits* in the Technical Reference Section
2. A three-wire NPN sensor with a residual voltage of 0.8 V maximum and a built-in collector load can be used. In this case, however, when the output transistor of the sensor is ON, the B7A will be OFF.
3. Consumption when all 16 points are ON. Excludes external sensor current for Input Terminals.
4. The minimum input time is required for the B7A to read an input signal.

### Output Models

| Item | Screw terminal models (100 mA/point) | | |
|---|---|---|---|
| | B7A-R6B11/-R6B16/ -R6B31/-R6B36 | B7AS-R6B11/-R6B16/ -R6B31/-R6B36 | B7A-R6F11/-R6F16/ -R6F31/-R6F36 |
| **Output configuration** | NPN open collector | | PNP open collector |
| **I/O delay** | B7A□-R6□□1: standard (typical 19.2 ms); B7A□-R6□□6: high speed (typical 3 ms) | | |
| **Error processing** | B7A□-R6□1□: HOLD; B7A□-R6□3□: LOAD OFF | | |
| **Current consumption** (See Note) | 80 mA max. with all output terminals ON | 120 mA max. with all output terminals ON | 80 mA max. with all output terminals ON |
| **Power supply voltage** | 12 to 24 VDC | | |
| **Rated load voltage** | 5 to 24 VDC | | |
| **Output residual voltage** | 0.8 V max. | | |
| **Output current** | Sink current, 100 mA max./point | | Source current, 100 mA max./point |
| **Mounting strength** | No damage when 5 kgf (49 N) pull is applied for 1 min each in all directions (except in direction of DIN track) | | |
| **Terminal strength** | No damage when 5 kgf (49 N) pull is applied each in all directions (except in direction of DIN track) | | |
| **Tightening torque** | 8 to 12 kgf • cm (0.78 to 1.18 N • m) | | |
| **Weight** | Approx. 160 g | Approx. 130 g | Approx. 160 g |

Note: Consumption when all 16 points are ON. Excludes external load current and error load current for Output Terminals.

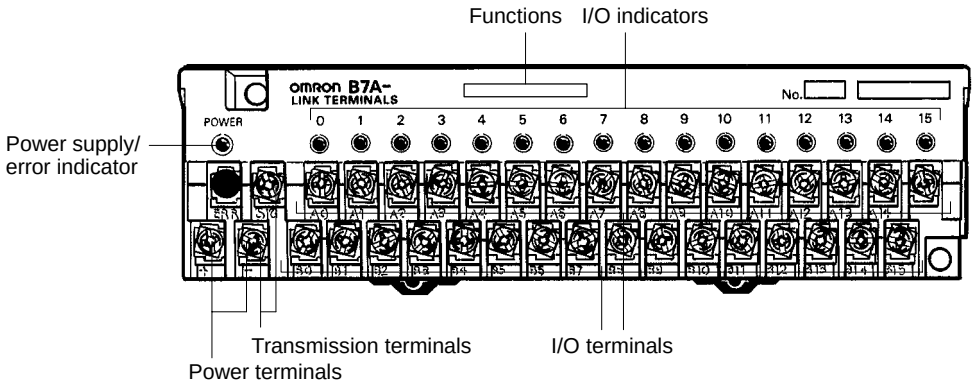
**Output Models continued**

| Item | Screw terminal models (500 mA/point) | | Printed circuit board models |
|---|---|---|---|
| | B7A-R6C11/-R6C16/ -R6C31/-R6C36 | B7A-R6G11/-R6G16/ -R6G31/-R6G36 | B7A-R6A52/-R6A57 |
| **Output configuration** | N-channel MOSFET open drain (NPN compatible) | P-channel MOSFET open drain (PNP compatible) | NPN open collector |
| **I/O delay** | B7A-R6□□1: standard (typical 19.2 ms); B7A-R6□□6: high speed (typical 3 ms) | | B7A-R6A52: standard (typical 19.2 ms) B7A-R6A57: high speed (typical 3 ms) |
| **Error processing** | B7A-R6□1□: HOLD; B7A-R6□3□: LOAD OFF | | HOLD (H/L terminals open) LOAD OFF (H/L terminals connected to 0 V) |
| **Current consumption** (See Note 1) | 100 mA max. with all output terminals ON | | 40 mA max. with all output terminals ON |
| **Power supply voltage** | 12 to 24 VDC | | |
| **Rated load voltage** | 5 to 24 VDC | | |
| **Output residual voltage** | 0.8 V max. | | |
| **Output current** | Sink current, 500 mA max./point (See Note 2) | Source current, 500 mA max./point (See Note 2) | Sink current, 50 mA max./point |
| **Mounting strength** | No damage when 5 kgf (49 N) pull is applied for 1 min each in all directions (except in direction of DIN track) | | --- |
| **Terminal strength** | No damage when 5 kgf (49 N) pull is applied each in all directions (except in direction of DIN track) | | --- |
| **Tightening torque** | 8 to 12 kgf • cm (0.78 to 1.18 N • m) | | --- |
| **Output logic** | --- | | Active high (N/P terminals open) Active low (N/P terminals connected to 0 V) (See Note 3) |
| **Weight** | Approx. 170 g | | Approx. 23 g |

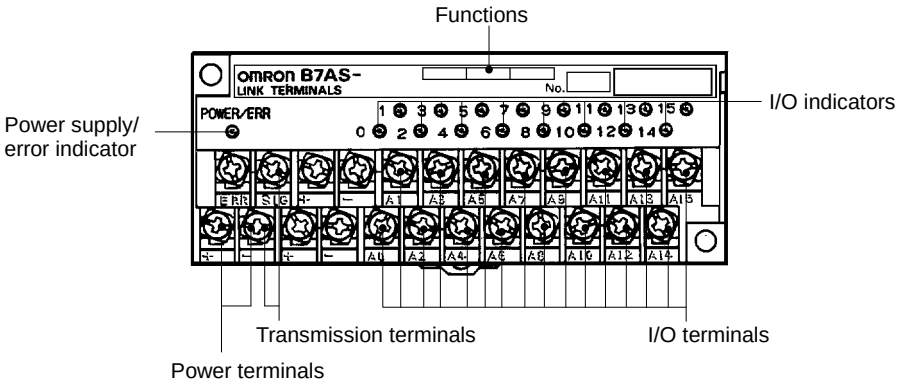
Note: 1. Consumption when all 16 points are ON. Excludes external load current and error load current for Output Terminals.
2. If a single power supply is connected to the Input or Output Link Terminal via a twisted pair cable with a thickness of 0.75 $mm^2$ minimum, the current flow must not exceed 1.8 A.
3. Refer to *B7A Technical Reference* for information regarding the relationship between the output logic and output ON/OFF status of the B7A.

# Nomenclature

**B7A**




**B7AS**




### Indication Operation

| Indicator | | Function |
|---|---|---|
| POWER (Input Terminal) | G | Lit when power is supplied and the Terminal is operating. |
| | N | Not lit when power is not supplied. |
| POWER/ERR (Output Terminal) | G | Lit when power is supplied and the Terminal is operating without error. |
| | R | Lit during transmission errors. |
| | N | Not lit when power is not supplied. |
| I/O | O | Lit when the input signals are ON. |
| | N | Not lit when the signals are OFF. |

Note: G: Green indicator lit; R: Red indicator lit;
O: Orange indicator lit; N: Not lit

### Recommended Solderless Terminals

| Wire | JIS specifications |
|---|---|
| 0.75 $mm^2$ (AWG#18) | RAV 1.25 to 3.5 (vinyl-insulated round wire) or RAP 1.25 to 3.5 (nylon-insulated round wire) |
| 1.25 $mm^2$ (AWG#16) | |

### Functions

| I/O classification | Display | Description |
|---|---|---|
| Input | NPN 3ms | **Input configuration**<br>Indicates the compatible transistor type for the input device. |
| | | **I/O delay**<br>Indicates the typical I/O delay time of the B7A. Use a combination of an Input and an Output Link Terminal with the same I/O delay time. |
| Output | NPN 0.1A 3ms | **Output configuration**<br>Indicates the compatible transistor type for the output transistor. |
| | | **Output current**<br>Indicates the rated output current value of the B7A per point. |
| | | **I/O delay**<br>Indicates the typical I/O delay time of the B7A. Use a combination of an Input and Output Link Terminal with the same I/O delay time. |

# Operation

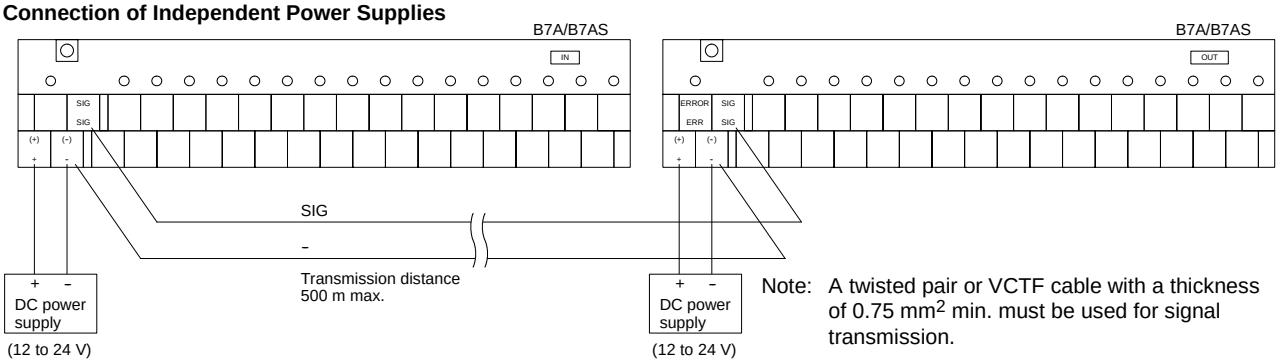
## ■ POWER SUPPLY

There are 16-point models with standard and high-speed transmission speeds, which are different in recommended transmission cable and transmission distance. If one power supply is connected to two Input or Output Modules, the current on the power line will be limited.

### Screw Terminal Models

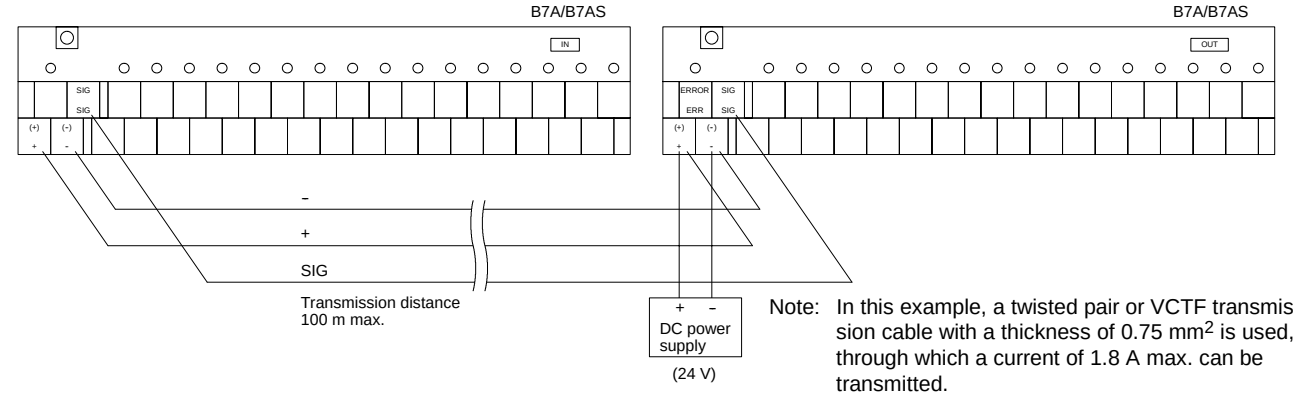
#### I/O Delay: Normal Speed

**Connection of Independent Power Supplies**




Note: A twisted pair or VCTF cable with a thickness of 0.75 $mm^2$ min. must be used for signal transmission.

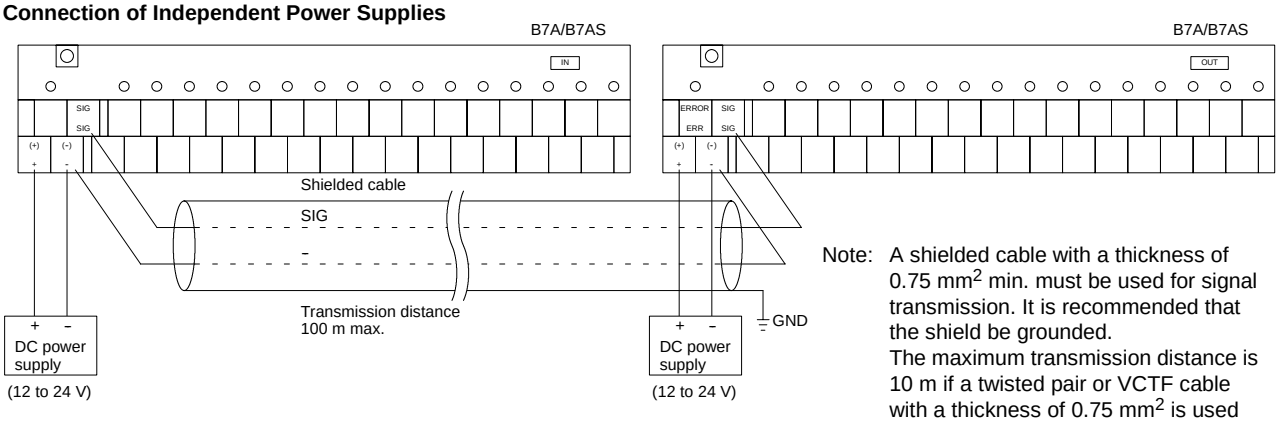
**Connection of Single Power Supply to Input or Output Terminal**




Note: In this example, a twisted pair or VCTF transmission cable with a thickness of 0.75 $mm^2$ is used, through which a current of 1.8 A max. can be transmitted.

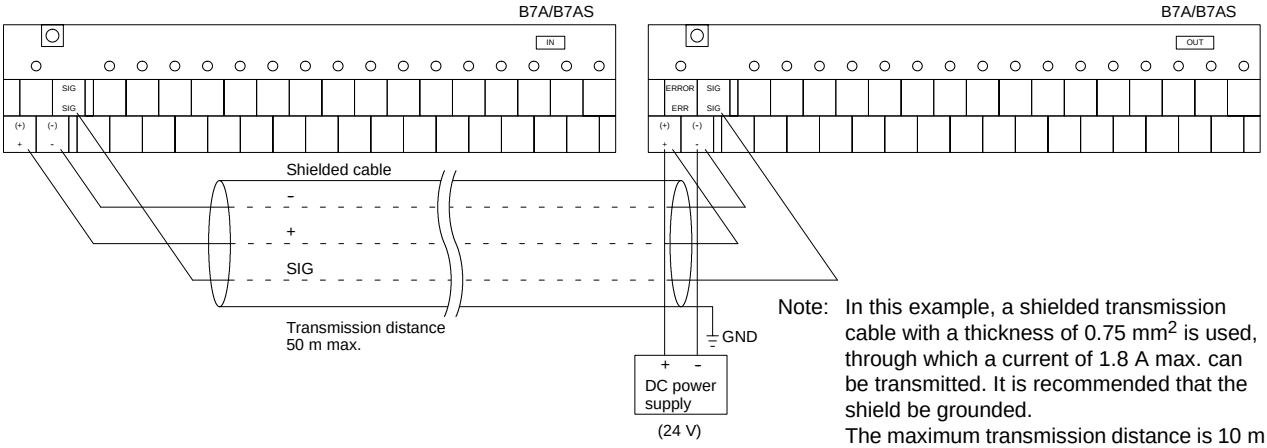
#### I/O Delay: High Speed

**Connection of Independent Power Supplies**




Note: A shielded cable with a thickness of 0.75 $mm^2$ min. must be used for signal transmission. It is recommended that the shield be grounded.
The maximum transmission distance is 10 m if a twisted pair or VCTF cable with a thickness of 0.75 $mm^2$ is used instead of a shielded cable for the transmission path.

**Connection of Single Power Supply to Input or Output Terminal**

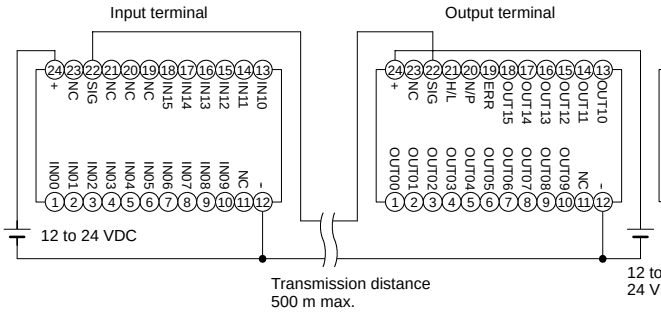



Note: In this example, a shielded transmission cable with a thickness of 0.75 mm$^2$ is used, through which a current of 1.8 A max. can be transmitted. It is recommended that the shield be grounded.
The maximum transmission distance is 10 m if a twisted pair or VCTF cable with a thickness of 0.75 mm$^2$ is used instead of a shielded cable for the transmission path.

## Printed Circuit Board Models

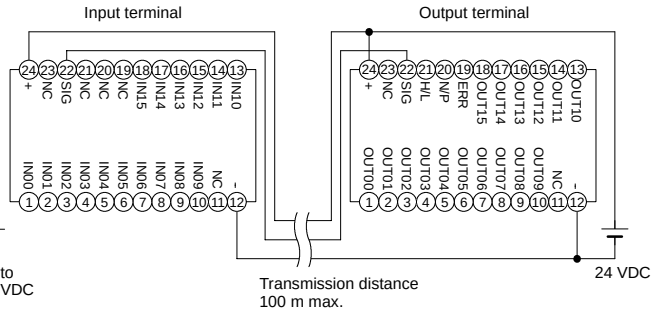
**I/O Delay: Normal Speed**

**Connection of Independent Power Supplies**




Note: A twisted pair or VCTF cable with a thickness of 0.75 mm$^2$ min. must be used for signal transmission.

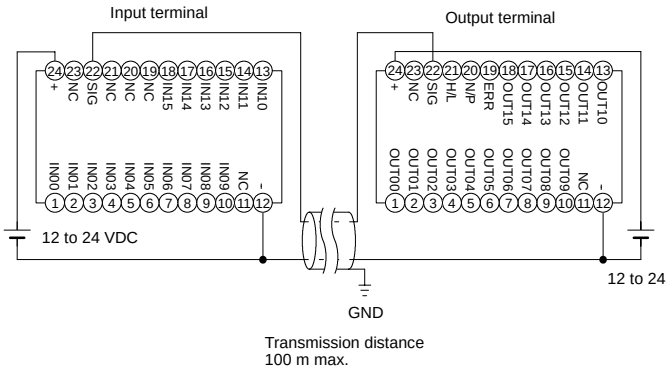
**Connection of Single Power Supply to Input or Output Terminal**




Note: In this example, a twisted pair or VCTF transmission cable with a thickness of 0.75 mm$^2$ min. is used, through which a current of 1.8 A max. can be transmitted.

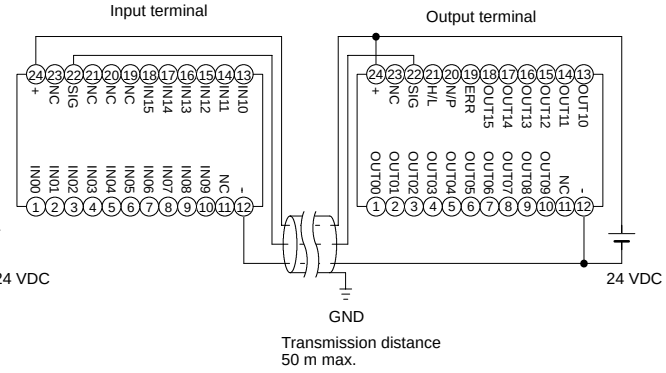
**I/O Delay: High Speed**

**Connection of Independent Power Supplies**




Note: A shielded cable with a thickness of 0.75 mm$^2$ min. must be used for signal transmission. It is recommended that the shield be grounded.
The maximum transmission distance is 10 m if a twisted pair or VCTF cable with a thickness of 0.75 mm$^2$ is used instead of a shielded cable for the transmission path.

**Connection of Single Power Supply to Input or Output Terminal**



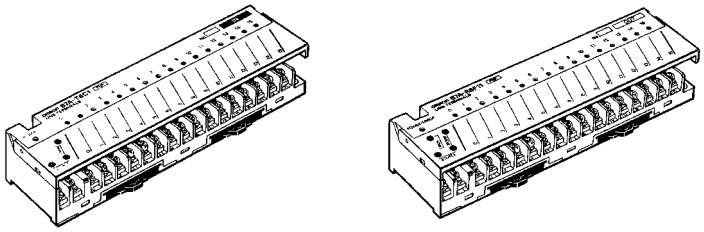

Note: In this example, a shielded transmission cable with a thickness of 0.75 mm$^2$ min. is used, through which a current of 1.8 A max. can be transmitted. It is recommended that the shield be grounded.
The maximum transmission distance is 10 m if a twisted pair or VCTF cable with a thickness of 0.75 mm$^2$ is used instead of a shielded cable for the transmission path.

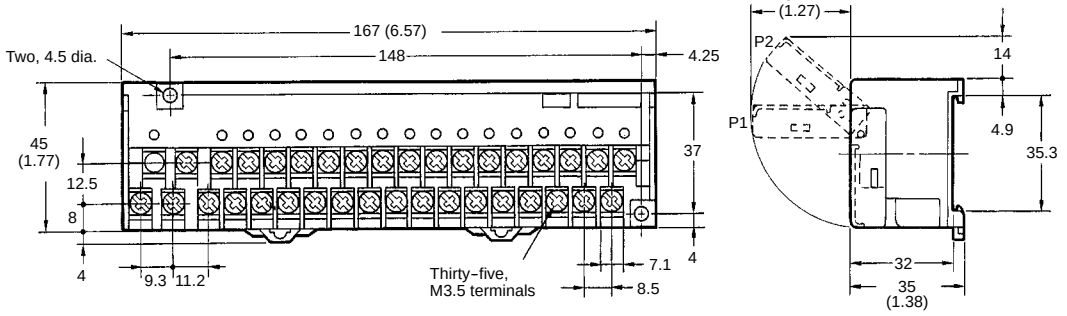
# Dimensions

Unit: mm (inch)

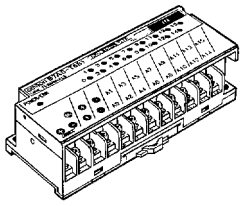
## ■ SCREW TERMINAL MODELS

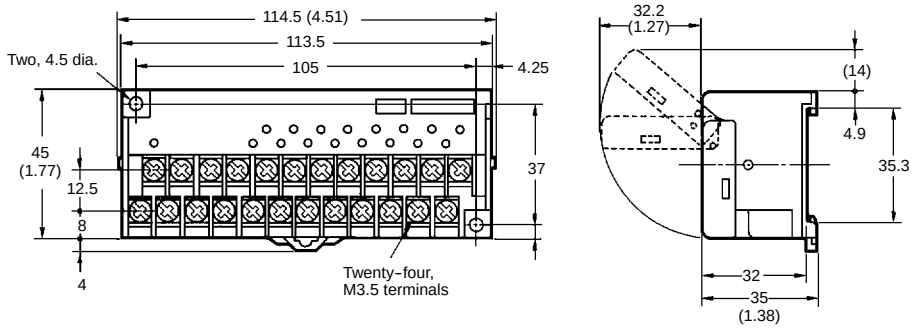
**Standard Models**
**B7A**



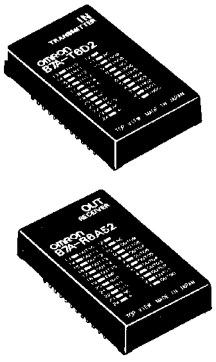


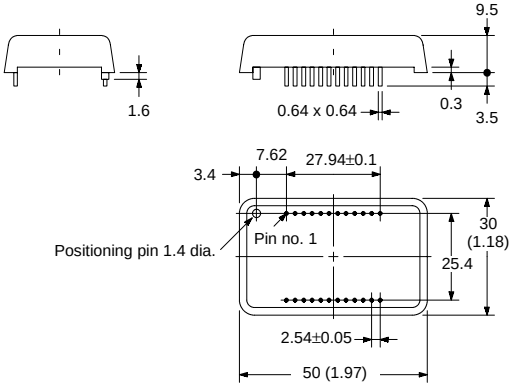

**Compact Models**
**B7AS**



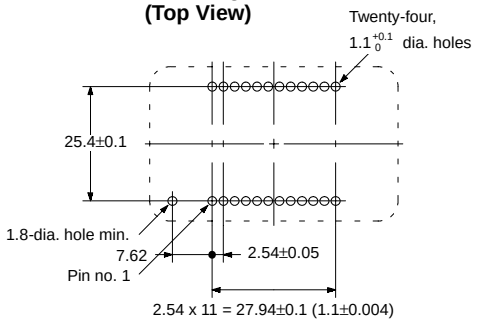



## ■ PRINTED CIRCUIT BOARD MODELS






**Mounting Holes**
**(Top View)**

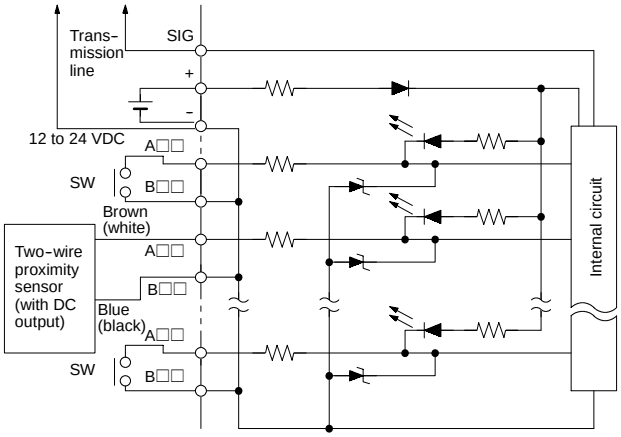


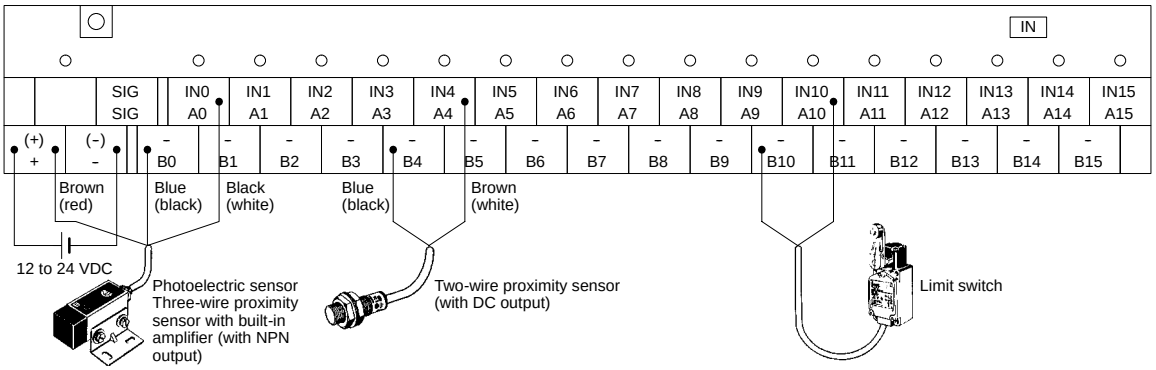
# Installation

## ■ INTERNAL CIRCUITS AND TERMINAL ARRANGEMENT

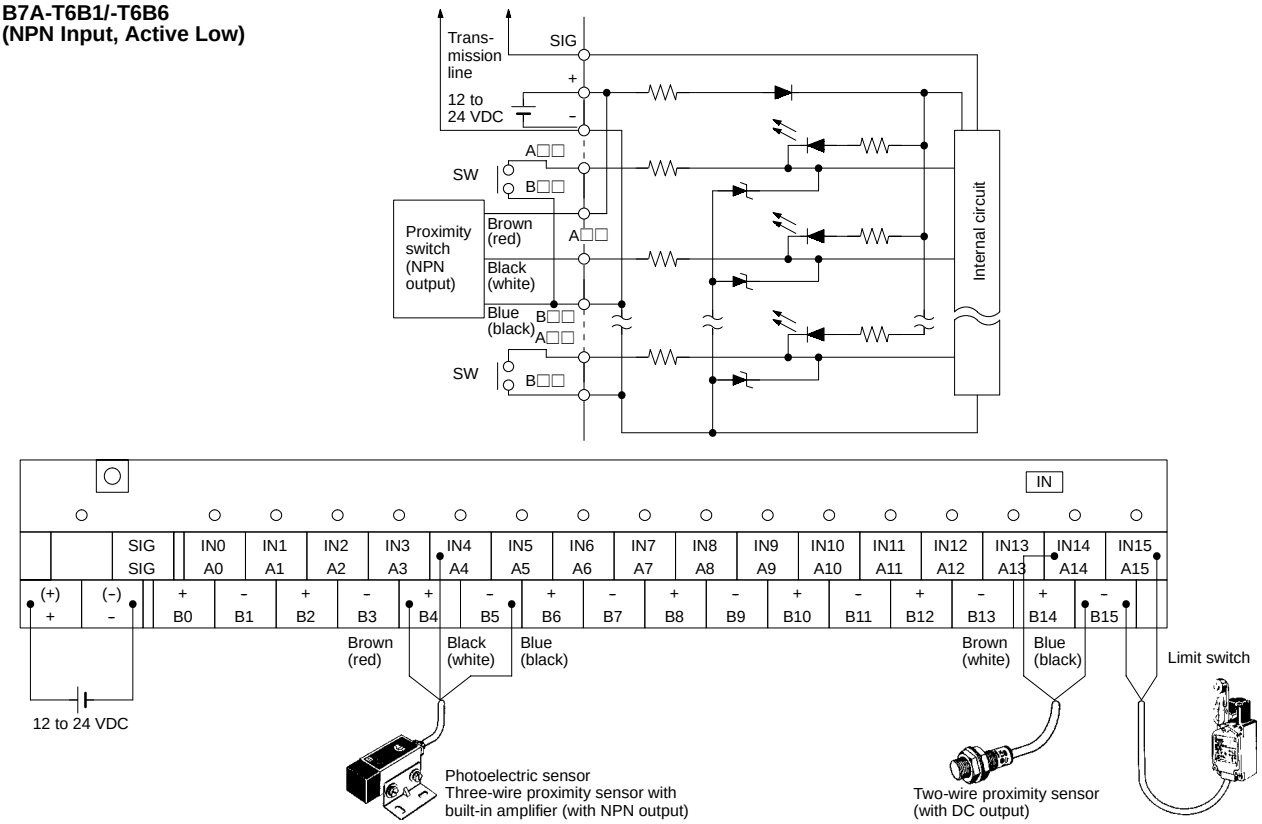
### Screw Terminal Models

**B7A-T6A1/-T6A6**
**(NPN Input, Active Low)**

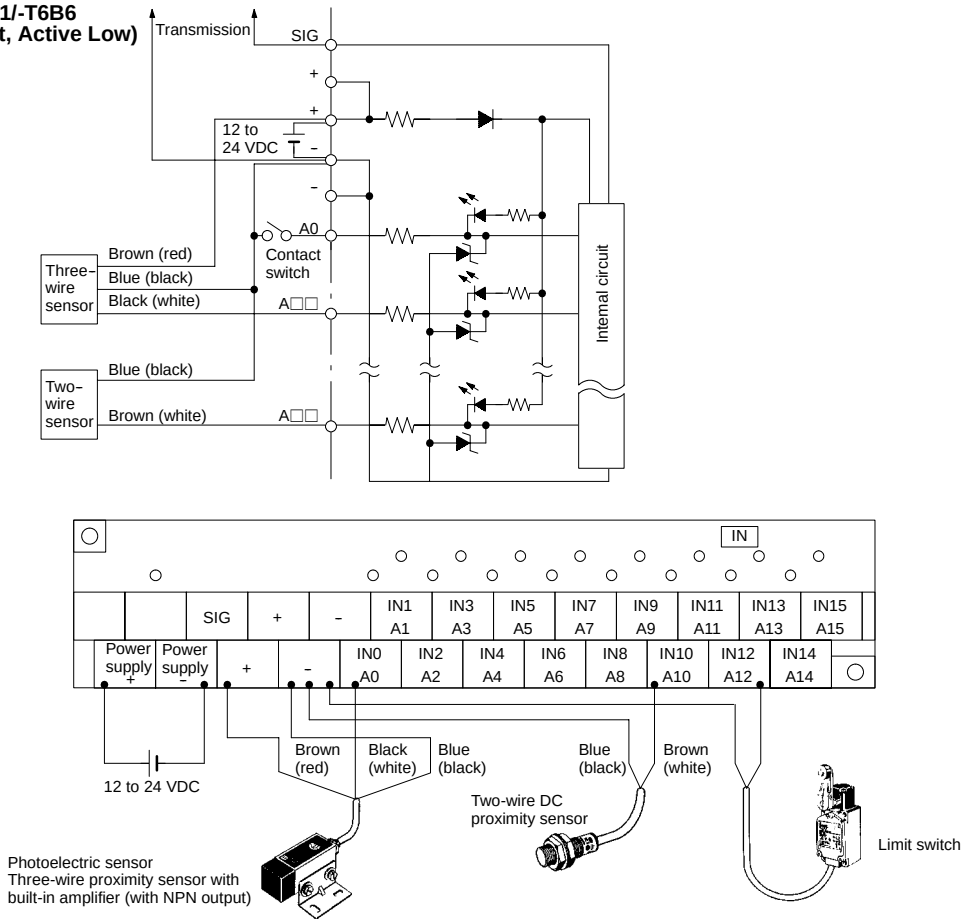


**B7A-T6B1/-T6B6**
**(NPN Input, Active Low)**



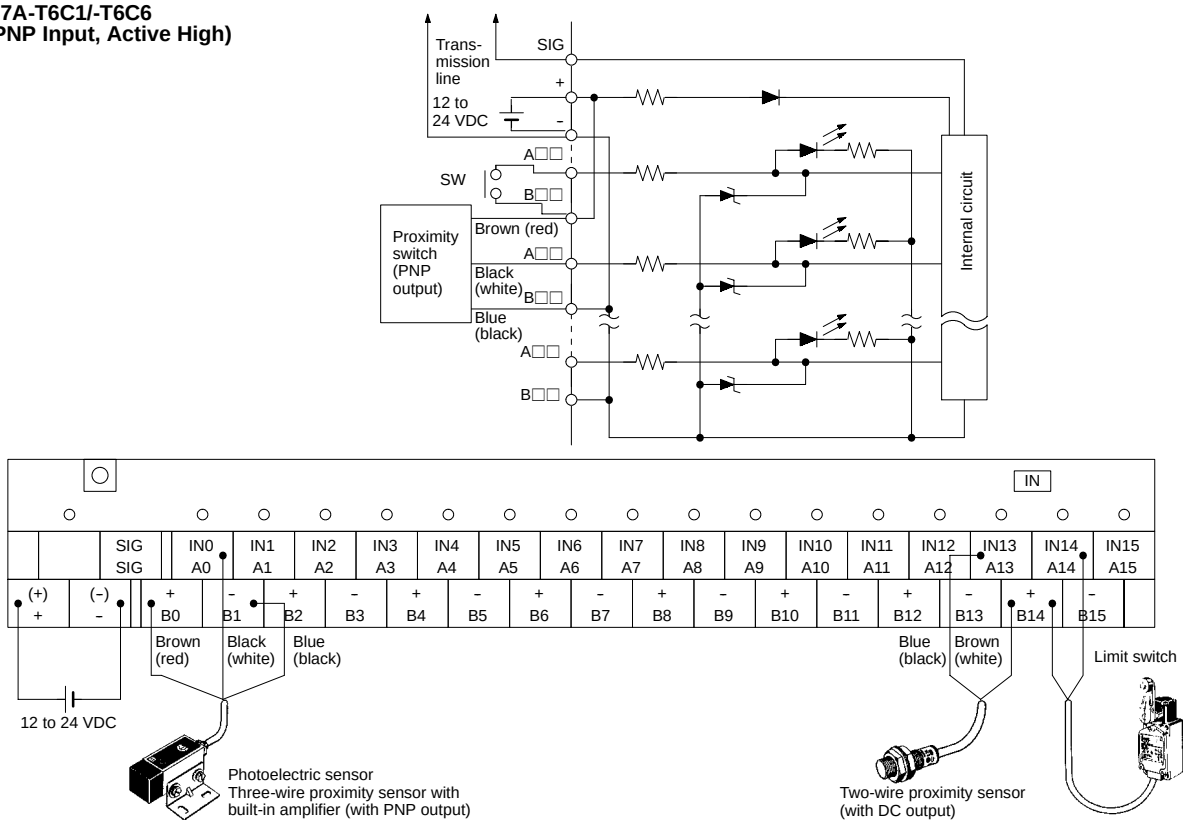
**B7AS-T6B1/-T6B6**
**(NPN Input, Active Low)**




Note: 1. IEC wire colors for photoelectric sensors and proximity sensors are shown first. The colors in parentheses refer to the old colors.

2. Do not short-circuit the SIG terminal with the positive power supply terminal, negative power supply terminal, or a B□□ terminal, otherwise the internal elements of the B7A will be damaged and no transmission will be possible.

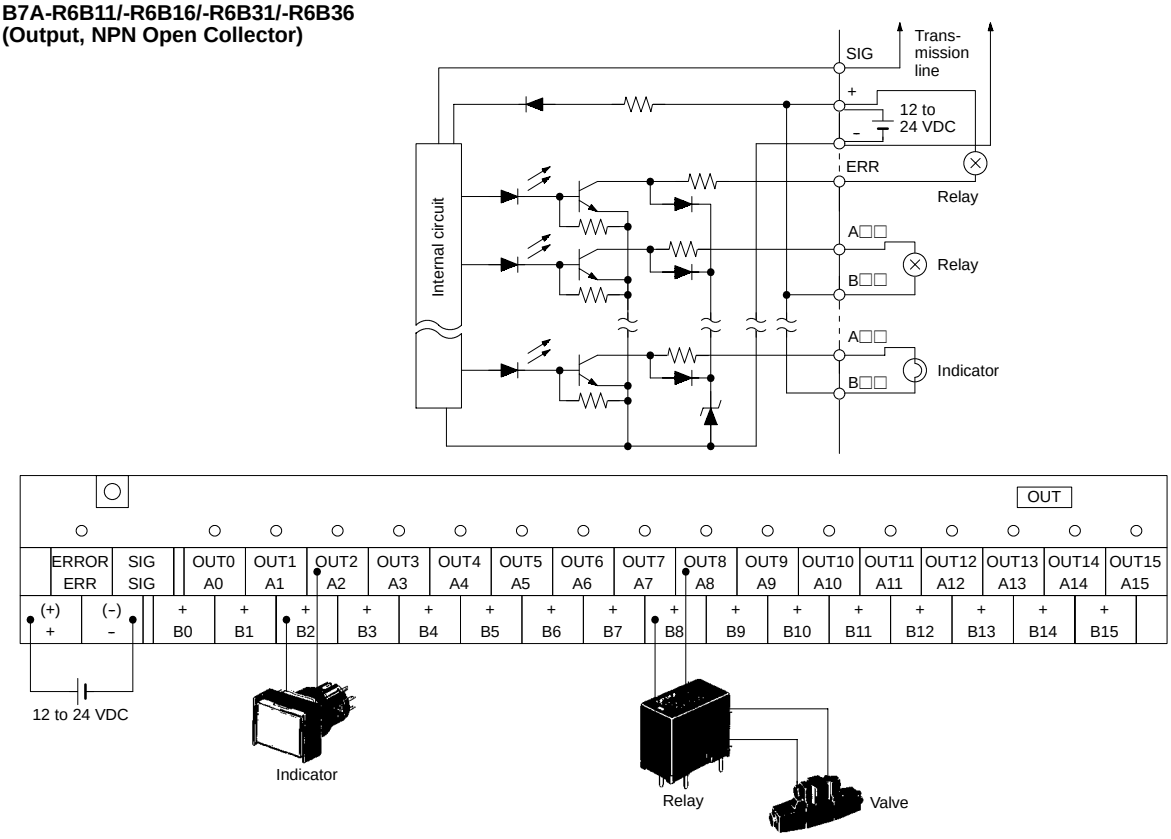
**B7A-T6C1/-T6C6**
**(PNP Input, Active High)**



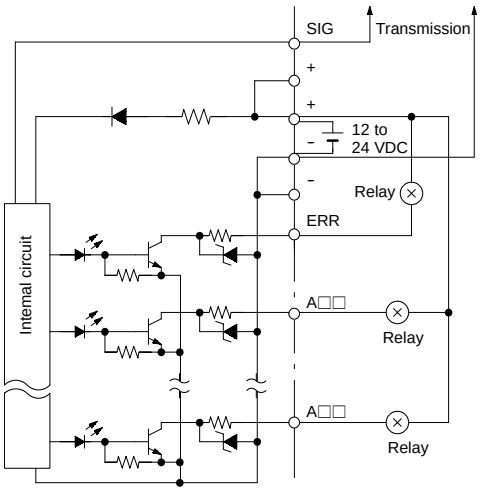

Note: 1. IEC wire colors for photoelectric sensors and proximity sensors are shown first. The colors in parentheses refer to the old colors.

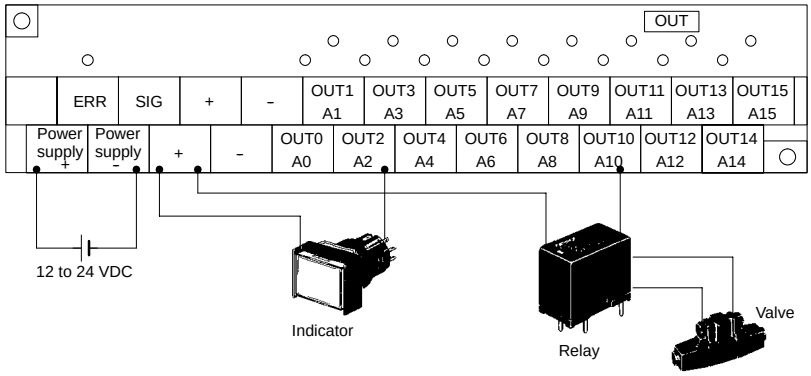
2. Do not short-circuit the SIG terminal with the positive power supply terminal, negative power supply terminal, or a B□□ terminal, otherwise the internal elements of the B7A will be damaged and no transmission will be possible.

**B7A-R6B11/-R6B16/-R6B31/-R6B36**
**(Output, NPN Open Collector)**



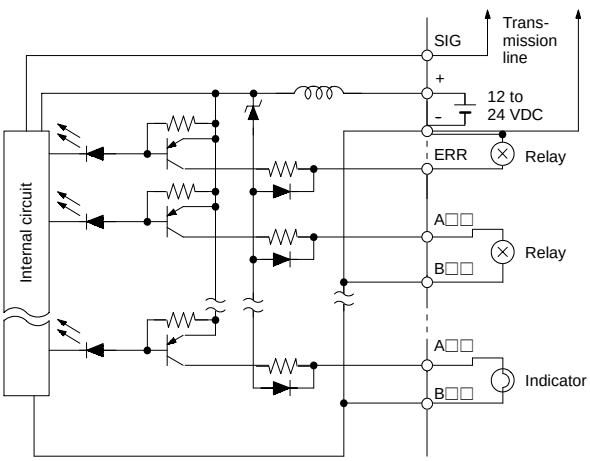
**B7AS-R6B11/-R6B16/-R6B31/-R6B36**
**(Output, NPN Open Collector)**

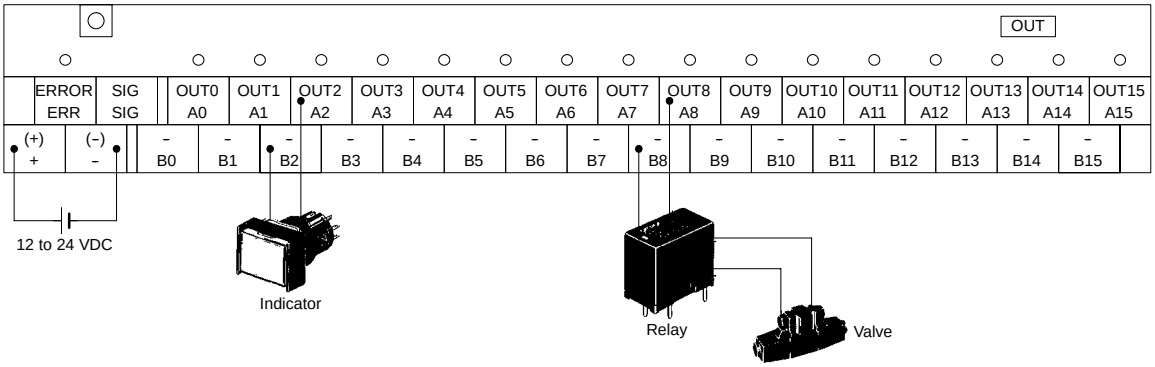


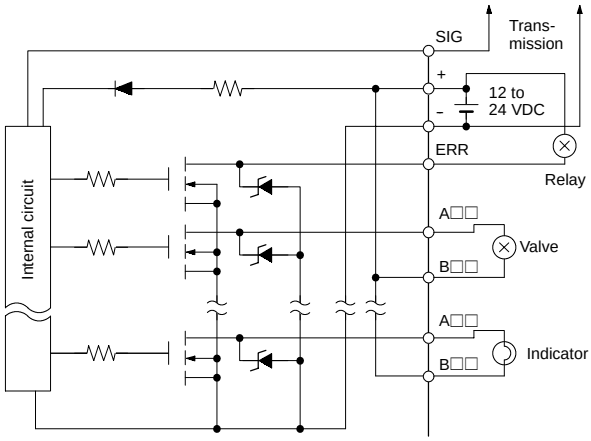

Note: Do not short-circuit terminals A□□ and B□□, otherwise the internal element(s) of the B7A may be damaged.

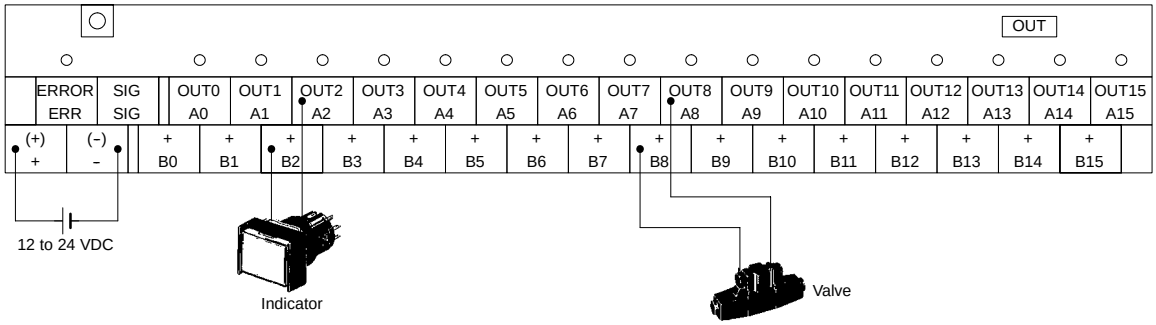
**B7A-R6F11/-R6F16/-R6F31/-R6F36**
**(Output, PNP Open Collector)**



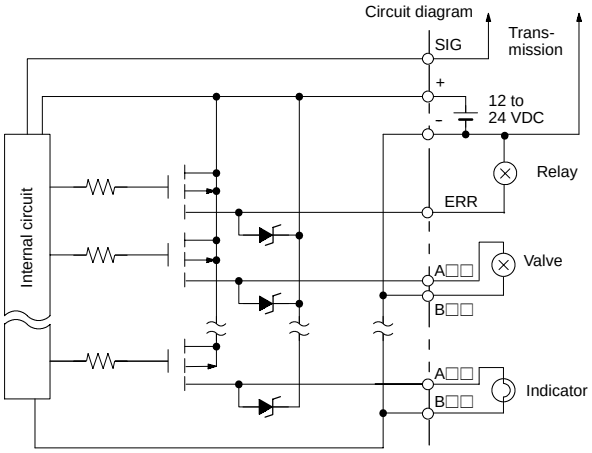



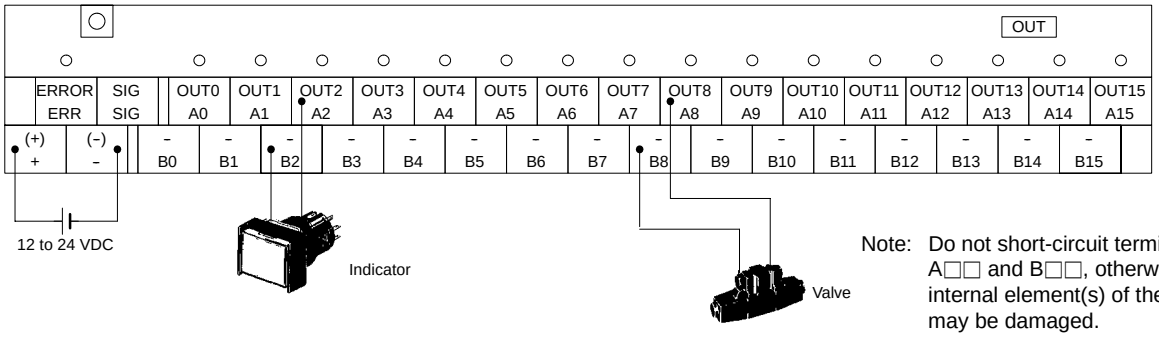

**B7A-R6C11/-R6C16/-R6C31/-R6C36**
**(N-channel MOSFET Open Drain Output,**
**NPN Compatible)**



**B7A-R6G11/-R6G16/-R6G31/-R6G36**
**(P-channel MOSFET Open Drain Output, PNP Compatible)**

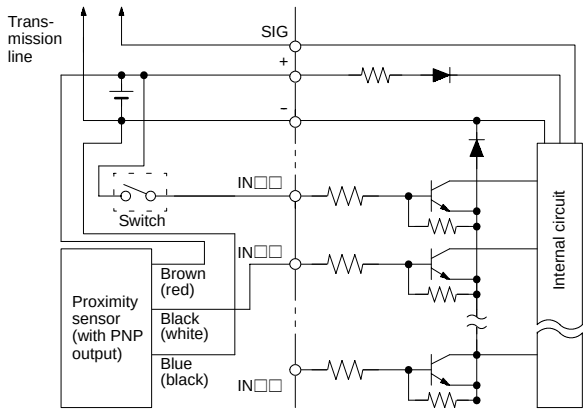


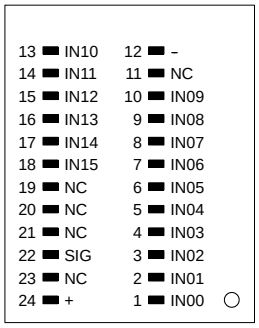

Note: Do not short-circuit terminals A□□ and B□□, otherwise the internal element(s) of the B7A may be damaged.

## Printed Circuit Board Models

### B7A-T6D2/-T6D7
### (PNP Input, Active High)



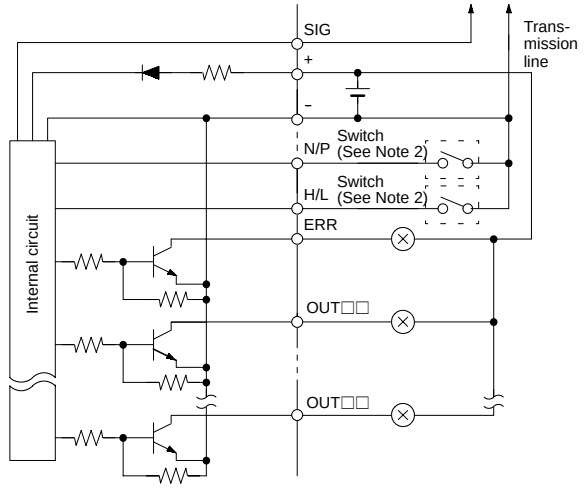

**Top View**



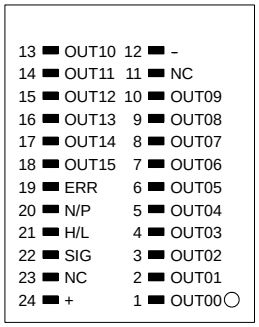

Note: 1. IEC wire colors for photoelectric sensors and proximity sensors are shown first. The colors in parentheses refer to the old colors.

2. Do not short-circuit the SIG terminal with a positive or negative power supply terminal, or internal elements of B7A will be damaged and no transmission will occur.

### B7A-R6A52/-R6A57
### (Output, NPN Open Collector)




**Top View**




Note: 1. Do not short-circuit any output terminal with the positive terminal, or the internal elements of the B7A will be damaged.

2. Logic output processing and error output processing methods can be selected with the selectors. The selectors are not required when the B7A is used with its output fixed to the output logic.

| N/P: Negative/Positive | | H/L: HOLD/LOAD OFF | |
|---|---|---|---|
| **Terminal processing** | **Function** | **Terminal processing** | **Function** |
| Open | Output logic active H | Open | Error output processing: HOLD |
| Connected to 0 V | Output logic active L | Connected to 0 V | Error output processing: LOAD OFF |

**NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.**

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