





PLC Migration Adapter Yaskawa 2000/1000 I/O series

Sharp JW/ZW series



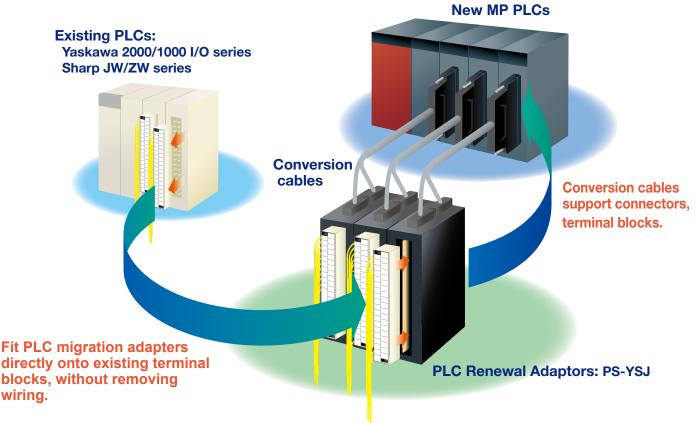


Migrating outdated PLCs into new PLCs without wiring

The PLC Renewal Adapter allows you to migrate Yaskawa 2000/1000 I/O series PLCs or Sharp JW/ZW series PLCs into new PLC without rewiring and reconnecting cables or rechecking I/O assignments.

Features

- Renew old PLCs from various manufactures including Mitsubishi, JTEKT, Omron and more.
- Voltage conversion models allow new PLCs to be rated at 24 VDC.
- Toho custom-builds cable that adapt PLCs from all major manufacturers with changing connector pin assign.
- Small-footprint installation mounts available upon request.
- "Low-profile" models with reduced depth available.



No I/O reassignments required

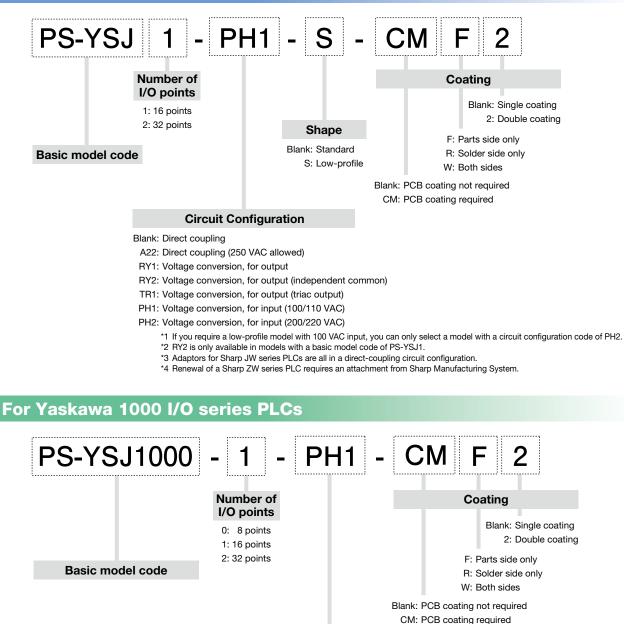
●PLC Renewal Adaptor Selection

| Existing PLC | | | | New PLC | PLC Rene | wal Adaptor | | |
|---------------------|-----------------------------------|-----------------------|-----------------------|--------------------------|--|------------------|--------------------|-------------------|
| Series name | Model name/ | Configuration | Voltage rating | Number of I/O points | Voltage rating | Model name | Circuit | Reference page |
| | Model with 20-pole terminal block | | 405.140/00 | 10 | | PS-YSJ1 | Direct coupling | _ |
| | | | 125 VAC/DC max | 16 | Same as existing PLC | PS-YSJ1-S | Direct coupling | 5 |
| | Model with 38-pole terminal block | | | 00 | Come as svisting DLC | PS-YSJ2 | Direct coupling | |
| | | | 125 VAC/DC max 32 | Same as existing PLC | PS-YSJ2-S | Direct coupling | 6 | |
| | Model with 38-pc | ole terminal block | 250 VAC/DC max | 32 | Same as existing PLC | PS-YSJ2A22 | Direct coupling | 7 |
| | B2500 | | | 250 VAC/24 VDC output 16 | 24 VDC | PS-YSJ1-RY1 | Relay | |
| | | | 250 VAC/24 VDC output | | | PS-YSJ1-RY1-S | Relay | 8 |
| | B29 | 202 | | 00 | 32 24 VDC PS-YSJ2-RY1 Relay PS-YSJ2-RY1-S Relay | Relay | | |
| | DZS | 902 | 250 VAC/24 VDC output | 32 | | PS-YSJ2-RY1-S | Relay | 9 |
| | D 000 (| Doot | | 10 | 041/00 | PS-YSJ1-RY2 | Relay | 10 |
| Yaskawa | B2904 | B2914 | 250 VAC/24 VDC output | 16 | 24 VDC | PS-YSJ1-RY2-S | Relay | 10 |
| 2000 I/O | DO | 500 | | 10 | | PS-YSJ1-TR1 | Triac | |
| 2000 1/ 0 | B2 | 500 | 80-240 VAC output | 16 | 24 VDC | PS-YSJ1-TR1-S | Triac | 11 |
| | DO | 504 | | 00 | 24 VDC | PS-YSJ2-TR1 | Triac | 10 |
| | B2 | 504 | 80-240 VAC output | 32 | 24 VDC | PS-YSJ2-TR1-S | Triac | 12 |
| | Doc | | | | Photocoupler | | | |
| | B2501A | | 100/110 VAC input | 16 | 24 VDC | PS-YSJ1-PH2-S | Photocoupler | 13 |
| | B2505A | | 400/4403/400 500 4 | | Photocoupler | | | |
| | | | 100/110 VAC input | 32 | 24 VDC | PS-YSJ2-PH2-S | Photocoupler | 14 |
| | B2503A | | | 10 | 041/00 | PS-YSJ1-PH2 | Photocoupler | |
| | | | 200/240 VAC input | 16 | 24 VDC | PS-YSJ1-PH2-S | PH2-S Photocoupler | 15 |
| | B2507A | | 200/240 VAC input 32 | 20 | | PS-YSJ2-PH2 | Photocoupler | |
| | | | | 24 VDC | PS-YSJ2-PH2-S | Photocoupler | 16 | |
| | Model with 24-pole (1 | 12P×2) terminal block | 125 VAC/DC max | 16 | Same as existing PLC | PS-YSJ1000-1 | Direct coupling | 17 |
| | Model with 38-pc | ole terminal block | 125 VAC/DC max | 32 | Same as existing PLC | PS-YSJ1000-2 | Direct coupling | 18 |
| | B10 | 90B | 250 VAC/24 VDC output | 16 | 24 VDC | PS-YSJ1000-1-RY1 | Relay | 10 |
| Veekowa | B10 | 094 | 250 VAC/24 VDC output | 8 | 24 VDC | PS-YSJ1000-0-RY2 | Relay | 19 |
| Yaskawa 1000 I/O | B1(| 056 | 48 VDC output | 16 | 24 VDC | PS-YSJ1000-1-RY3 | SSR | 20 |
| 1000 1/0 | B1050 | | 80-240 VAC output | 16 | 24 VDC | PS-YSJ1000-1-TR1 | Triac | 21 |
| | B10 | 51B | 100/110 VAC input | 16 | 24 VDC | PS-YSJ1000-1-PH1 | Photocoupler | 22 |
| | B1055 | | 200/240 VAC input | 16 | 24 VDC | PS-YSJ1000-1-PH2 | Photocoupler | 23 |
| | B1(| 057 | 48 VDC output | 16 | 24 VDC | PS-YSJ1000-1-48 | Resistor | 24 |
| | Madalus III. 00 | | 105 \/A0/D0 | 10 | | PS-YSJ1 | Direct coupling | - |
| | Model with 20-pole terminal block | | 125 VAC/DC max | 16 | Same as existing PLC | PS-YSJ1-S | Direct coupling | - 5 |
| Sharp | Model with 38-pole terminal block | 105 1/10/20 | | | PS-YSJ2 | Direct coupling | | |
| JW/ZW *1 | | 125 VAC/DC max | 32 | Same as existing PLC | PS-YSJ2-S | Direct coupling | 6 | |
| - | Model with 38-pole terminal block | | 250 VAC/DC max | 32 | Same as existing PLC | PS-YSJ2A22 | Direct coupling | 7 |

*1 Renewal of a ZW series PLC requires an attachment from Sharp Manufacturing System. *2 Please contact Toho Technology for other existing PLC models than those listed on the above table.

PLC Renewal Adaptor

For Yaskawa 2000 I/O and Sharp JW/ZW series PLCs



Circuit Configuration

Blank: Direct coupling

- RY1: Voltage conversion, for output
- RY2: Voltage conversion, for output (independent common)
- RY3: Voltage conversion, for output (independent common)
- TR1: Voltage conversion, for output (SSR output)
- PH1: Voltage conversion, for input (100/110 VAC)
- PH2: Voltage conversion, for input (200/220 VAC)
- 48: Voltage conversion, for input (Resistor input)
 - *See pages 17 to 24 for possible combinations of the number of I/O points and the circuit configuration.

Conversion Cables

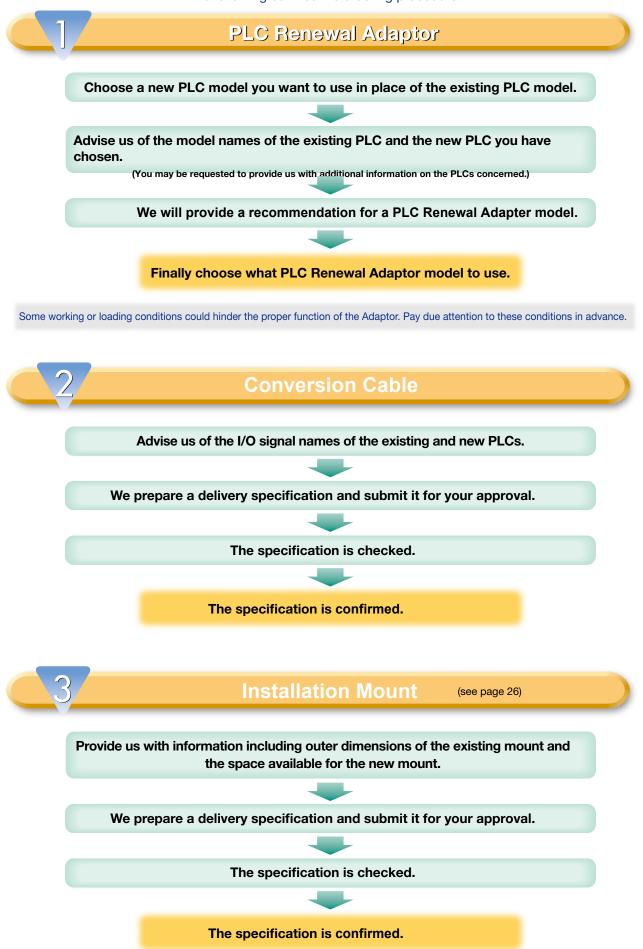
•Can be custom-made according to your specification. See page 4.

Installation Mounts

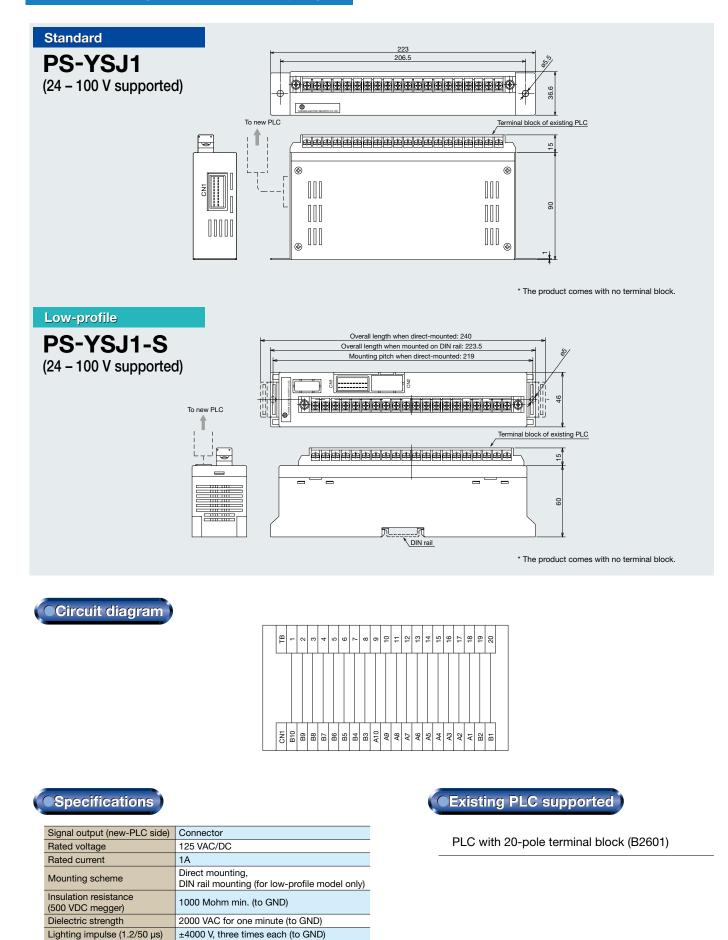
•Can be custom-made according to your space availability. See pages 4 and 26.

Ordering Procedure

The following outlines the ordering procedure.



For 16-point input/output module Circuit configuration: Direct coupling



* PS-YSJ-S is not applicable for triac output.

10 – 55 Hz, 0.5mm/p-p

98m/S2 (10G)

Vibration resistance Impact resistance

For 32-point input/output module Circuit configuration: Direct coupling

Rated voltage

Rated current

Mounting scheme Insulation resistance

(500 VDC megger)

Dielectric strength Lighting impulse (1.2/50 µs)

Vibration resistance Impact resistance 125 VAC/DC

1000 Mohm min. (to GND)

10 – 55 Hz, 0.5mm/p-p

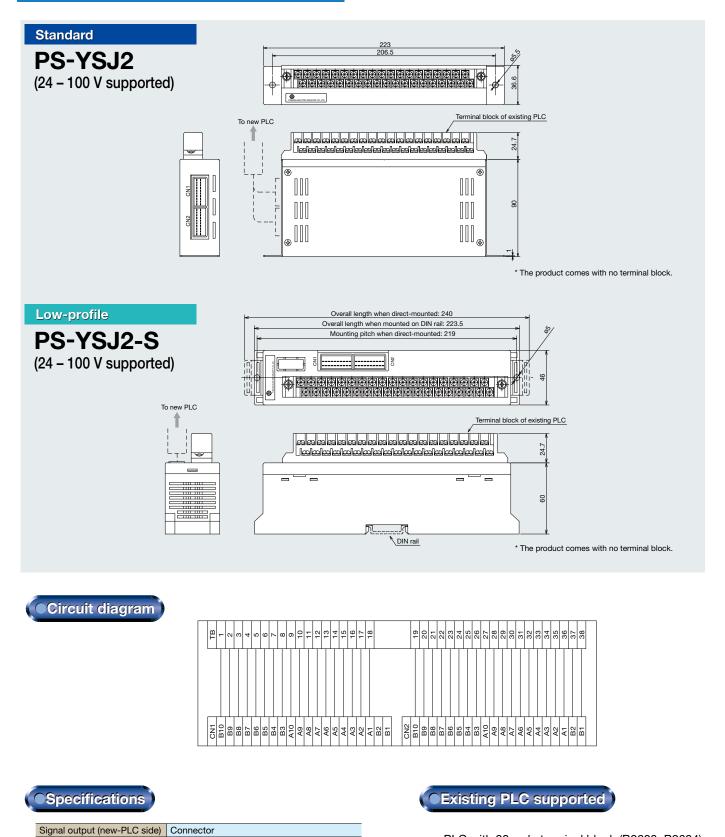
98m/S2 (10G)

2000 VAC for one minute (to GND)

±4000 V, three times each (to GND)

Direct mounting, DIN rail mounting (for low-profile model only)

1A

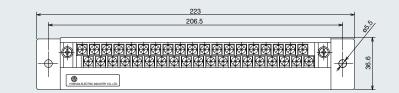


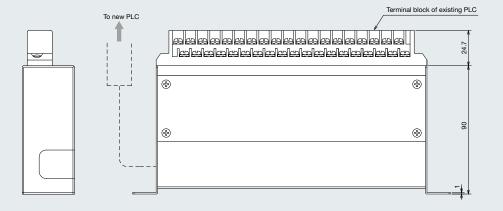
PLC with 38-pole terminal block (B2603, B2604)

For 32-point input/output module Circuit configuration: Direct <u>coupling</u>

Standard

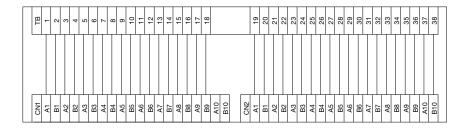
PS-YSJ2A22 (24 - 250 V supported)





* The product comes with no terminal block.

Circuit diagram



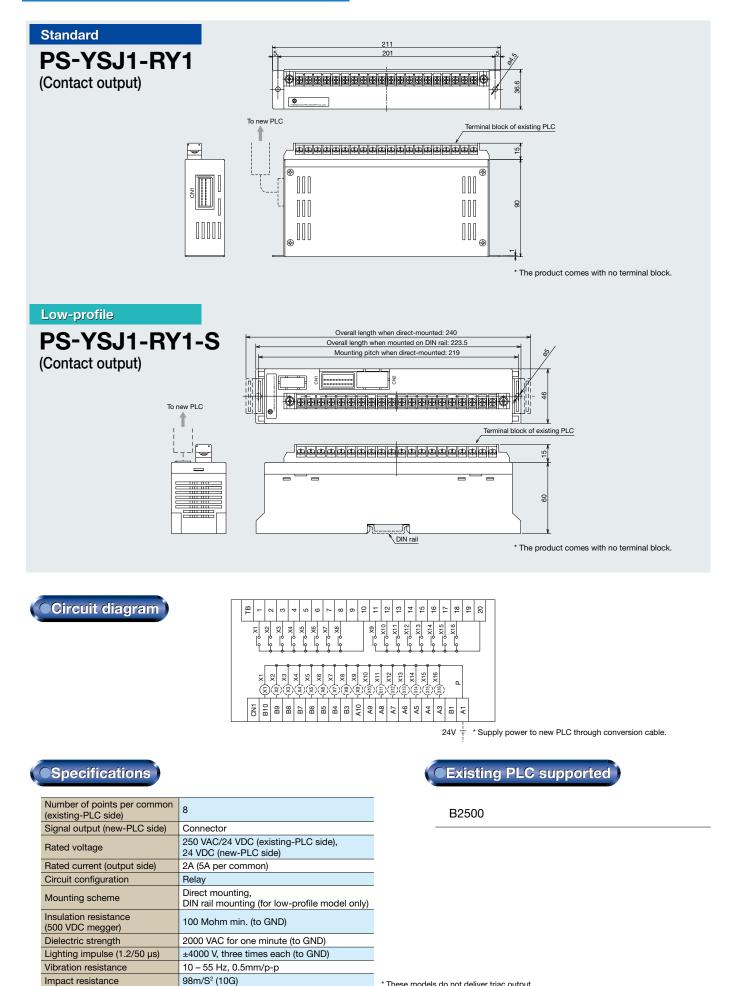
Specifications

| Signal output (new-PLC side) | Connector |
|---|------------------------------------|
| Rated voltage | 250 VAC/DC |
| Rated current | 1A |
| Mounting scheme | Direct mounting |
| Insulation resistance (500 VDC megger) | 1000 Mohm min. (to GND) |
| Dielectric strength | 2000 VAC for one minute (to GND) |
| Lighting impulse (1.2/50 µs) | ±4000 V, three times each (to GND) |
| Vibration resistance | 10 – 55 Hz, 0.5mm/p-p |
| Impact resistance | 98m/S ² (10G) |



PLC with 38-pole terminal block (B2902, B2507A)

For 16-point output module **Circuit configuration: Relay**



* These models do not deliver triac output.



For 32-point output module Circuit configuration: Relay

Circuit configuration

Mounting scheme Insulation resistance

(500 VDC megger) Dielectric strength

Vibration resistance

Impact resistance

Lighting impulse (1.2/50 µs)

Relay

Direct mounting, DIN rail mounting (for low-profile model only)

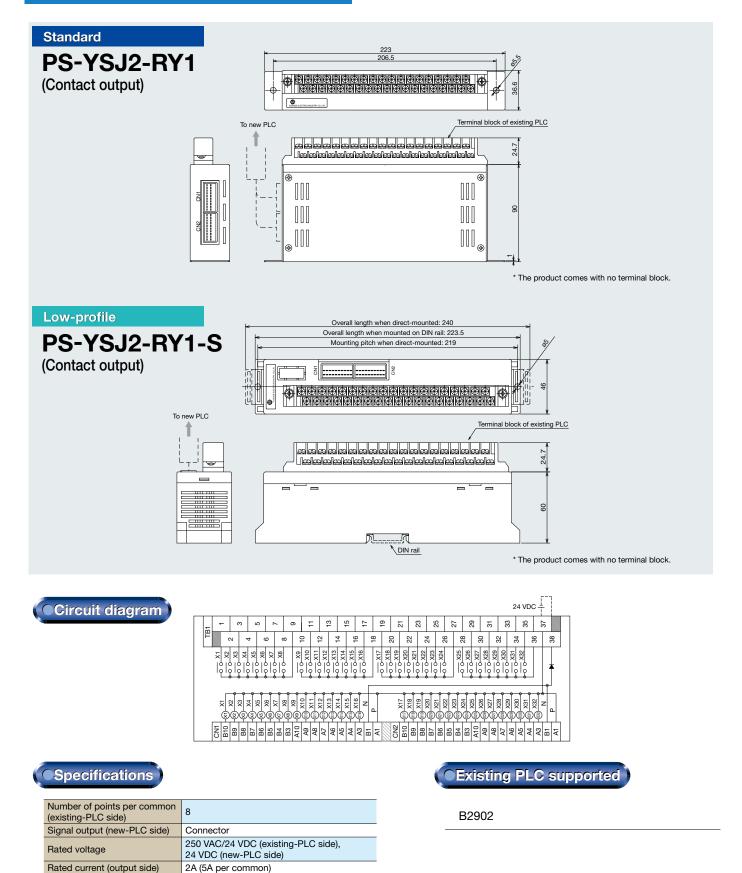
100 Mohm min. (to GND)

10 – 55 Hz, 0.5mm/p-p

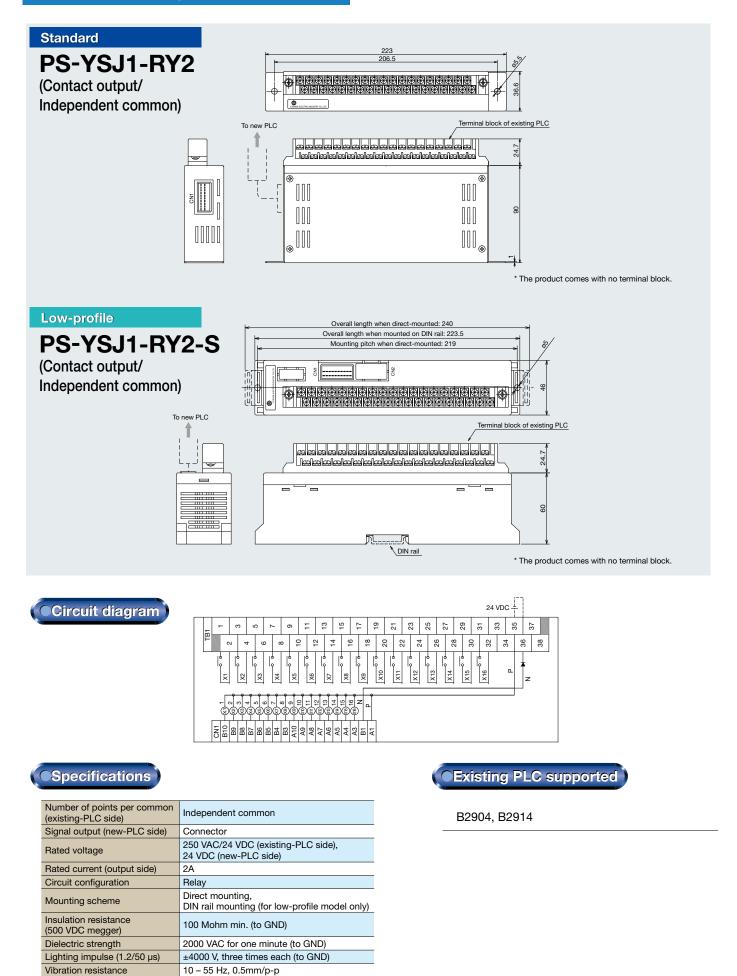
98m/S2 (10G)

2000 VAC for one minute (to GND)

±4000 V, three times each (to GND)



For 16-point output module Circuit configuration: Relay



* Relays used are not Bestact™ relays from Yaskawa.

Impact resistance

98m/S2 (10G)



For 16-point output module Circuit configuration: Triac

Circuit configuration

Insulation resistance

(500 VDC megger)

Dielectric strength Lighting impulse (1.2/50 µs)

Vibration resistance

Impact resistance

Mounting scheme

Triac

Direct mounting,

100 Mohm min. (to GND)

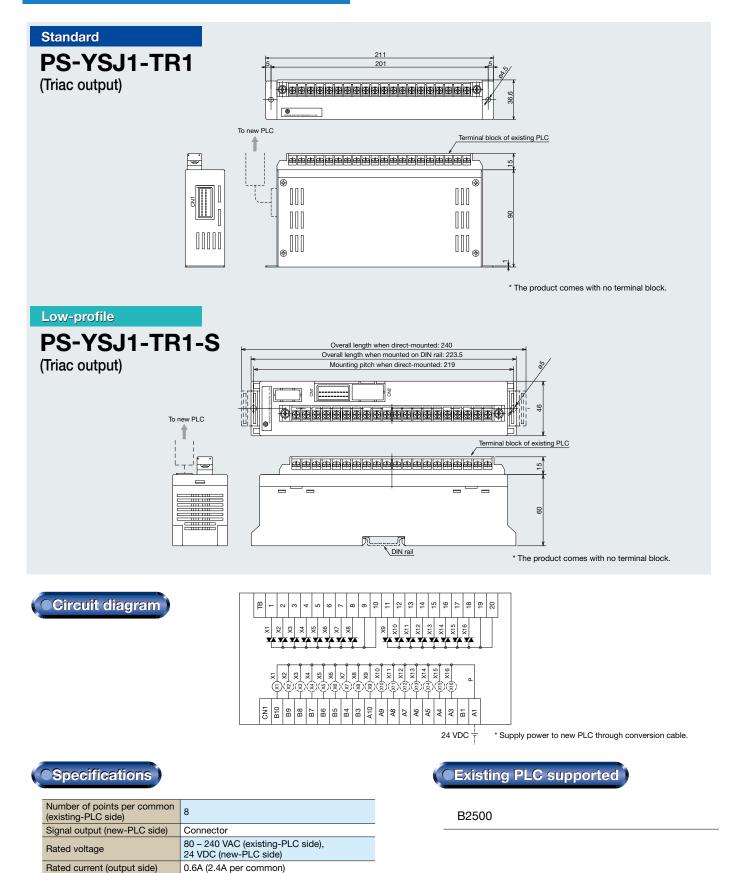
10 – 55 Hz, 0.5mm/p-p

98m/S2 (10G)

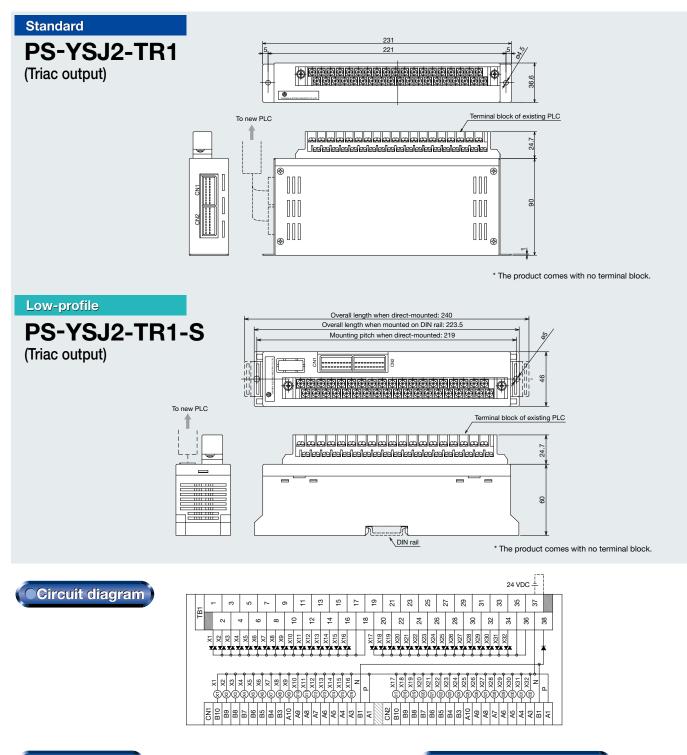
2000 VAC for one minute (to GND)

±4000 V, three times each (to GND)

DIN rail mounting (for low-profile model only)



For 32-point output module Circuit configuration: Triac



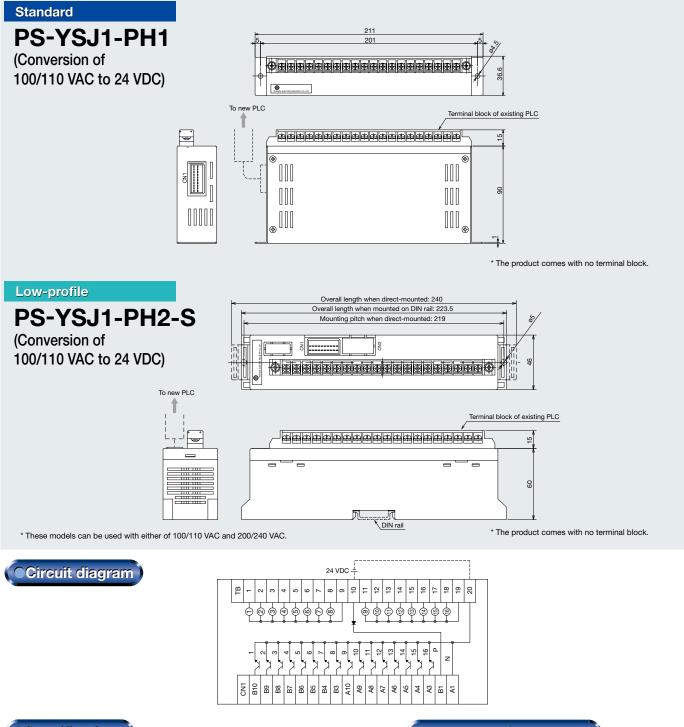
Specifications

| Number of points per common (existing-PLC side) | 16 |
|---|--|
| Signal output (new-PLC side) | Connector |
| Rated voltage | 80 – 240 VAC (existing-PLC side), 24 VDC (new-PLC side) |
| Rated current (output side) | 0.6A (2.4A per common) |
| Circuit configuration | Triac |
| Mounting scheme | Direct mounting, DIN rail mounting (for low-profile model only) |
| Insulation resistance (500 VDC megger) | 100 Mohm min. (to GND) |
| Dielectric strength | 2000 VAC for one minute (to GND) |
| Lighting impulse (1.2/50 µs) | ±4000 V, three times each (to GND) |
| Vibration resistance | 10 – 55 Hz, 0.5mm/p-p |
| Impact resistance | 98m/S ² (10G) |

Existing PLC supported

B2504

For 16-point 100/110 VAC input module Circuit configuration: Photocoupler



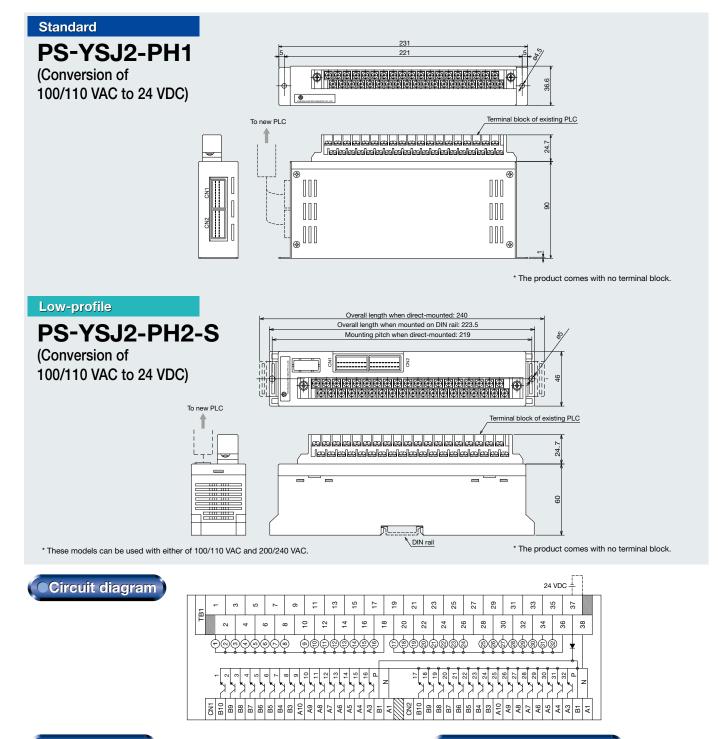
Specifications

| Number of points per common (existing-PLC side) | 8 |
|---|--|
| Signal output (new-PLC side) | Connector |
| Rated voltage | 100/110 VAC (existing-PLC side), 24 VDC (new-PLC side) |
| Rated current (input side) | 10 mA (for standard model), 5 mA (for low-profile model) |
| Photocoupler ON voltage | 50 VAC |
| Circuit configuration | Photocoupler |
| Mounting scheme | Direct mounting, DIN rail mounting (for low-profile model only) |
| Insulation resistance (500 VDC megger) | 100 Mohm min. (to GND) |
| Dielectric strength | 2000 VAC for one minute (to GND) |
| Lighting impulse (1.2/50 µs) | ±4000 V, three times each (to GND) |
| Vibration resistance | 10 – 55 Hz, 0.5mm/p-p |
| Impact resistance | 98m/S ² (10G) |

Existing PLC supported

B2501A

For 32-point 100/110 VAC input module Circuit configuration: Photocoupler



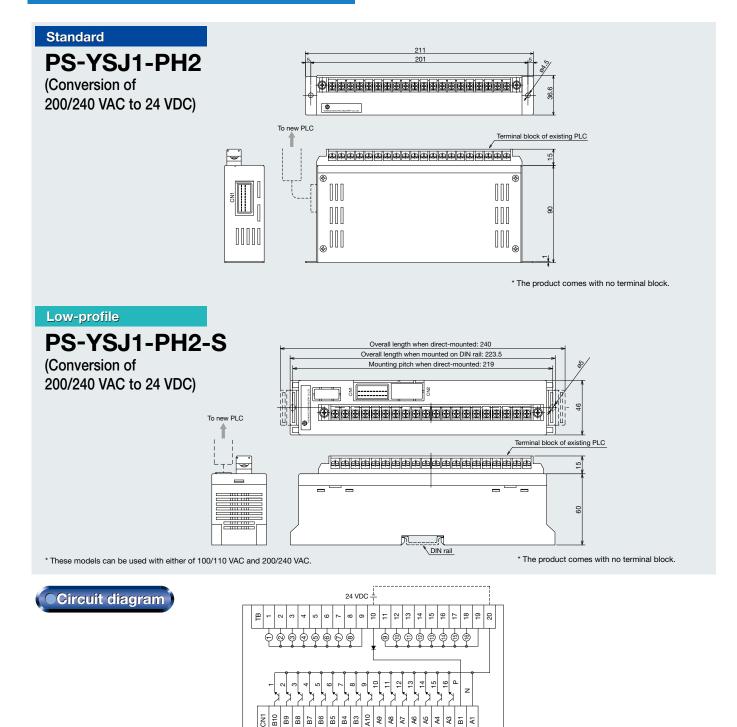
Specifications

| Number of points per common (existing-PLC side) | 16 |
|---|--|
| Signal output (new-PLC side) | Connector |
| Rated voltage | 100/110 VAC (existing-PLC side), 24 VDC (new-PLC side) |
| Rated current (input side) | 10 mA |
| Photocoupler ON voltage | 50 VAC |
| Circuit configuration | SSR or photocoupler |
| Mounting scheme | Direct mounting, DIN rail mounting (for low-profile model only) |
| Insulation resistance (500 VDC megger) | 100 Mohm min. (to GND) |
| Dielectric strength | 2000 VAC for one minute (to GND) |
| Lighting impulse (1.2/50 µs) | ±4000 V, three times each (to GND) |
| Vibration resistance | 10 – 55 Hz, 0.5mm/p-p |
| Impact resistance | 98m/S ² (10G) |

Existing PLC supported

B2505A

For 16-point 200/240 VAC input module Circuit configuration: Photocoupler



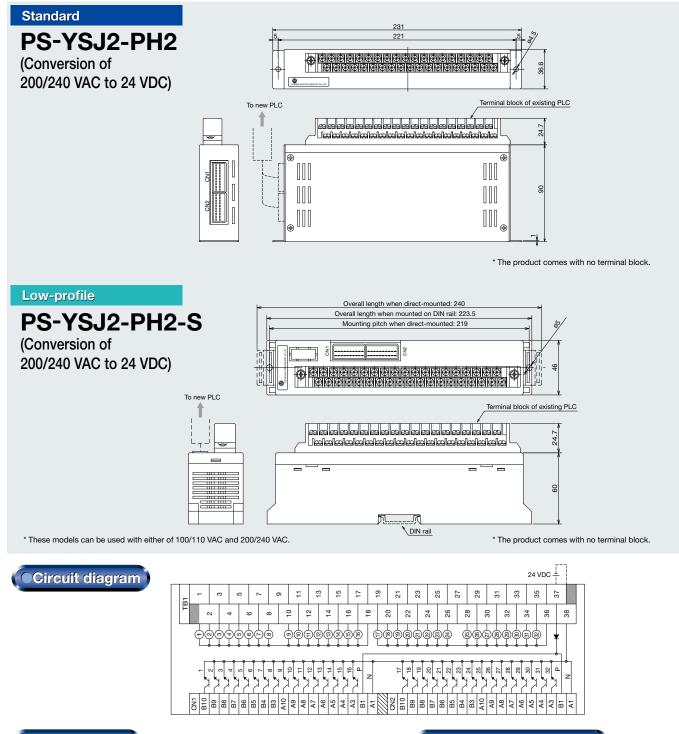
Specifications

| Number of points per common (existing-PLC side) | 8 |
|---|--|
| Signal output (new-PLC side) | Connector |
| Rated voltage | 200/240 VAC (existing-PLC side), 24 VDC (new-PLC side) |
| Rated current (input side) | 10 mA (for standard model), 5 mA (for low-profile model) |
| Photocoupler ON voltage | 100 VAC (for standard model), 50 VAC (for low-profile model) |
| Circuit configuration | SSR or photocoupler insulation |
| Mounting scheme | Direct mounting, DIN rail mounting (for low-profile model only) |
| Insulation resistance (500 VDC megger) | 100 Mohm min. (to GND) |
| Dielectric strength | 2000 VAC for one minute (to GND) |
| Lighting impulse (1.2/50 µs) | ±4000 V, three times each (to GND) |
| Vibration resistance | 10 – 55 Hz, 0.5mm/p-p |
| Impact resistance | 98m/S ² (10G) |



B2503A

For 32-point 200/240 VAC input module Circuit configuration: Photocoupler



Specifications

| Number of points per common (existing-PLC side) | 16 |
|---|--|
| Signal output (new-PLC side) | Connector |
| Rated voltage | 200/240 VAC (existing-PLC side), 24 VDC (new-PLC side) |
| Rated current (input side) | 10 mA (for standard model), 5 mA (for low-profile model) |
| Photocoupler ON voltage | 100 VAC (for standard model), 50 VAC (for low-profile model) |
| Circuit configuration | SSR or photocoupler insulation |
| Mounting scheme | Direct mounting, DIN rail mounting (for low-profile model only) |
| Insulation resistance (500 VDC megger) | 100 Mohm min. (to GND) |
| Dielectric strength | 2000 VAC for one minute (to GND) |
| Lighting impulse (1.2/50 µs) | ±4000 V, three times each (to GND) |
| Vibration resistance | 10 – 55 Hz, 0.5mm/p-p |
| Impact resistance | 98m/S ² (10G) |

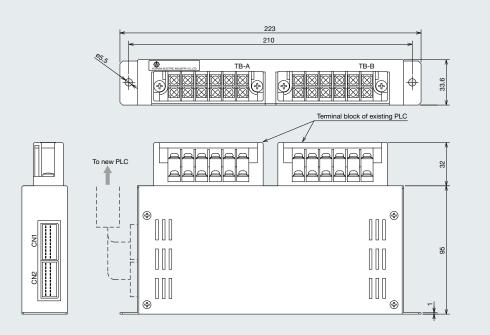
Existing PLC supported

B2507A

For 16-point input/output module Circuit configuration: Direct coupling

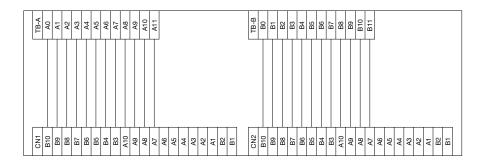
Standard





* The product comes with no terminal block.

Circuit diagram



Specifications

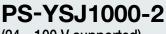
| Signal output (new-PLC side) | Connector |
|------------------------------|------------------------------------|
| <u> </u> | |
| Rated voltage | 125 VAC/DC |
| Rated current | 1A |
| Mounting scheme | Direct mounting |
| Insulation resistance | 100 Mohm min. (to GND) |
| (500 VDC megger) | |
| Dielectric strength | 2000 VAC for one minute (to GND) |
| Lighting impulse (1.2/50 µs) | ±4000 V, three times each (to GND) |
| Vibration resistance | 10 – 55 Hz, 0.5mm/p-p |
| Impact resistance | 98m/S² (10G) |

Existing PLC supported

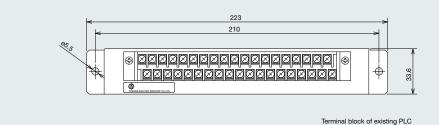
PLC with 24-pole (12-pole x 2) terminal block (B1059C)

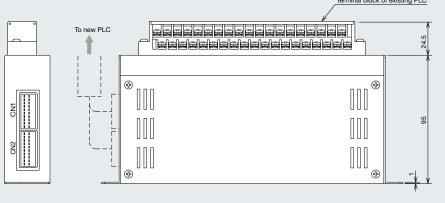
For 32-point input/output module Circuit configuration: Direct coupling

Standard



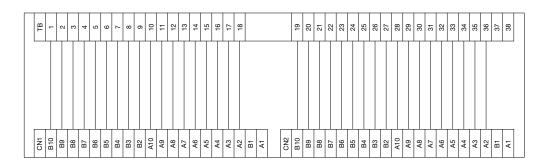
(24 – 100 V supported)





* The product comes with no terminal block.

Circuit diagram



Specifications

| Signal output (new-PLC side) | Connector |
|---|------------------------------------|
| Rated voltage | 125 VAC/DC |
| Rated current | 1A |
| Mounting scheme | Direct mounting |
| Insulation resistance (500 VDC megger) | 100 Mohm min. (to GND) |
| Dielectric strength | 2000 VAC for one minute (to GND) |
| Lighting impulse (1.2/50 µs) | ±4000 V, three times each (to GND) |
| Vibration resistance | 10 – 55 Hz, 0.5mm/p-p |
| Impact resistance | 98m/S² (10G) |

Existing PLC supported

PLC with 38-pole terminal block (B1062, B1063)

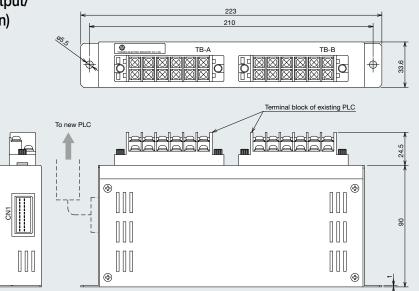
For 16-point/8-point output module Circuit configuration: Relay

Standard

PS-YSJ1000-1-RY1 (16 points, Contact output)

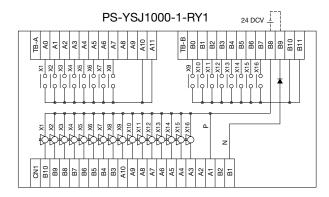
PS-YSJ1000-0-RY2

(8 points, Contact output/ Independent common)



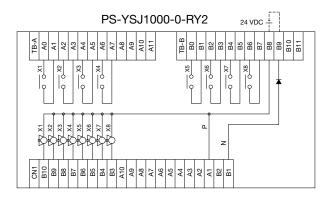
* The product comes with no terminal block.

Circuit diagram



Specifications

| Number of points per common | 8 (PS-YSJ-1-RY1) |
|--|--|
| (existing-PLC side) | Independent common (PS-YSJ1000-0-RY2) |
| Signal output (new-PLC side) | Connector |
| Rated voltage | 250 VAC/24 VDC (existing-PLC side), 24 VDC (new-PLC side) |
| Rated current (output side) | 2A (5A per common) |
| Circuit configuration | Relay |
| Mounting scheme | Direct mounting |
| Insulation resistance (500 VDC megger) | 100 Mohm min. (to GND) |
| Dielectric strength | 2000 VAC for one minute (to GND) |
| Lighting impulse (1.2/50 µs) | ±4000 V, three times each (to GND) |
| Vibration resistance | 10 – 55 Hz, 0.5mm/p-p |
| Impact resistance | 98m/S ² (10G) |



Existing PLC supported

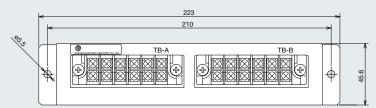
PS-YSJ1000-1-RY1: B1090B

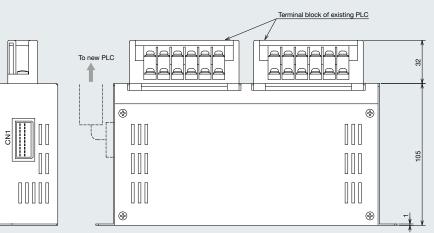
PS-YSJ1000-0-RY2: B1094

For 16-point output module Circuit configuration: SSR

Standard

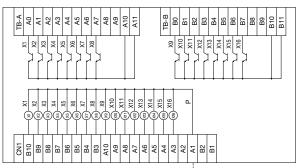
PS-YSJ1000-1-RY3 (SSR output)





* The product comes with no terminal block.





24 VDC $\frac{1}{T}$ * Supply power to new PLC through conversion cable.

Specifications

| Number of points per common (existing-PLC side) | 8 |
|--|--|
| Signal output (new-PLC side) | Connector |
| Rated voltage | 48 VDC (existing-PLC side), 24 VDC (new-PLC side) |
| Rated current (output side) | 2A (5A per common) |
| Circuit configuration | SSR |
| Mounting scheme | Direct mounting |
| Insulation resistance (500 VDC megger) | 100 Mohm min. (to GND) |
| Dielectric strength | 2000 VAC for one minute (to GND) |
| Lighting impulse (1.2/50 µs) | ±4000 V, three times each (to GND) |
| Vibration resistance | 10 – 55 Hz, 0.5mm/p-p |
| Impact resistance | 98m/S² (10G) |

Existing PLC supported

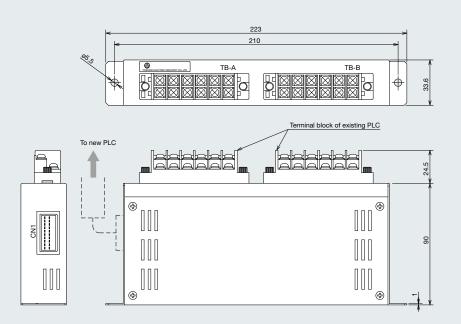
B1056

For 16-point output module Circuit configuration: Triac

Standard

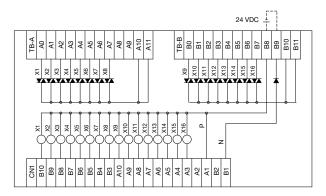
PS-YSJ1000-1-TR1

(Triac output)



* The product comes with no terminal block.

Circuit diagram



Specifications

| Number of points per common (existing-PLC side) | 8 |
|---|--|
| Signal output (new-PLC side) | Connector |
| Rated voltage | 80 – 240 VAC (existing-PLC side), 24 VDC (new-PLC side) |
| Rated current (output side) | 0.6A (2.4A per common) |
| Circuit configuration | Triac |
| Mounting scheme | Direct mounting |
| Insulation resistance (500 VDC megger) | 100 Mohm min. (to GND) |
| Dielectric strength | 2000 VAC for one minute (to GND) |
| Lighting impulse (1.2/50 µs) | ±4000 V, three times each (to GND) |
| Vibration resistance | 10 – 55 Hz, 0.5mm/p-p |
| Impact resistance | 98m/S ² (10G) |



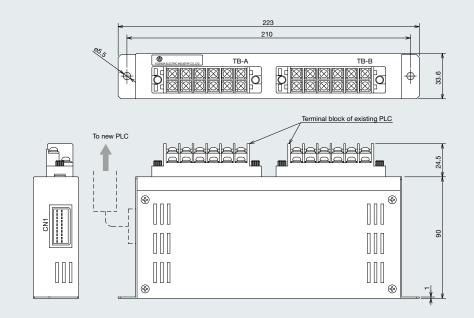
B1050

For 16-point 100/110 VAC input module Circuit configuration: Photocoupler

Standard

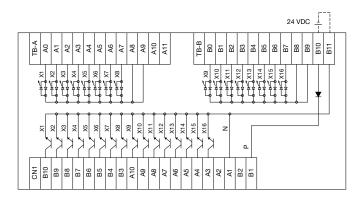
PS-YSJ1000-1-PH1

(Conversion of 100/110 VAC to 24 VDC)



* The product comes with no terminal block.





Specifications

| Number of points per common (existing-PLC side) | 8 |
|---|---|
| Signal output (new-PLC side) | Connector |
| Rated voltage | 100/110 VAC (existing-PLC side), 24 VDC (new-PLC side) |
| Rated current (input side) | 10 mA |
| Photocoupler ON voltage | 50 VAC |
| Circuit configuration | Photocoupler |
| Mounting scheme | Direct mounting |
| Insulation resistance (500 VDC megger) | 100 Mohm min. (to GND) |
| Dielectric strength | 2000 VAC for one minute (to GND) |
| Lighting impulse (1.2/50 µs) | ±4000 V, three times each (to GND) |
| Vibration resistance | 10 – 55 Hz, 0.5mm/p-p |
| Impact resistance | 98m/S² (10G) |

Existing PLC supported

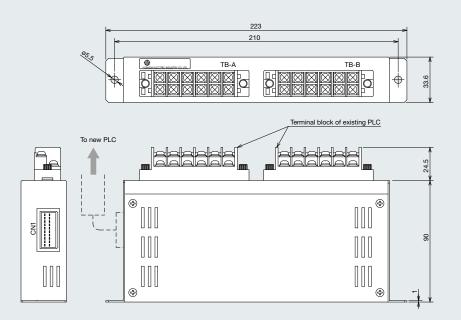
B1051B

For 16-point 200/240 VAC input module Circuit configuration: Photocoupler

Standard

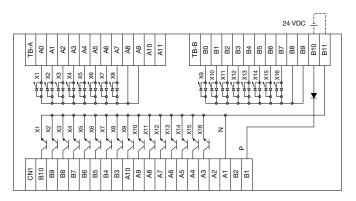
PS-YSJ1000-1-PH2

(Conversion of 200/240 VAC to 24 VDC)



* The product comes with no terminal block.

Circuit diagram



Specifications

| Number of points per common (existing-PLC side) | 8 | |
|--|---|--|
| Signal output (new-PLC side) | Connector | |
| Rated voltage | 200/240 VAC (existing-PLC side), 24 VDC (new-PLC side) | |
| Rated current (input side) | 10 mA | |
| Photocoupler ON voltage | 100 VAC | |
| Circuit configuration | Photocoupler | |
| Mounting scheme | Direct mounting | |
| Insulation resistance (500 VDC megger) | 100 Mohm min. (to GND) | |
| Dielectric strength | 2000 VAC for one minute (to GND) | |
| Lighting impulse (1.2/50 µs) | ±4000 V, three times each (to GND) | |
| Vibration resistance | 10 – 55 Hz, 0.5mm/p-p | |
| Impact resistance | 98m/S ² (10G) | |



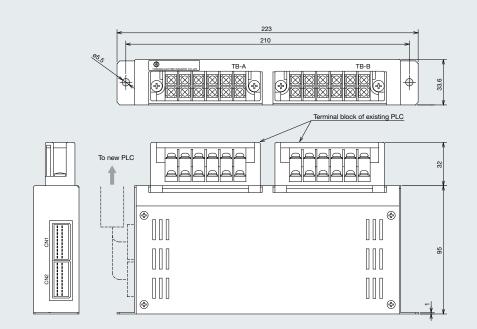
B1055

For 16-point input module Circuit configuration: Resistor

Standard

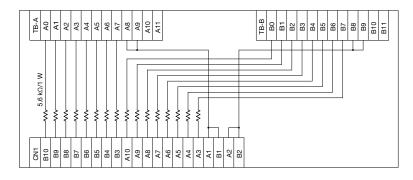
PS-YSJ1000-1-48

(Resistor input)



* The product comes with no terminal block.

Circuit diagram



Specifications

| Signal output (new-PLC side) | Connector |
|--|--|
| Rated voltage | 48 VDC (existing-PLC side), 24 VDC (new-PLC side) |
| Input impedance | 5.6 kΩ |
| Circuit configuration | Resistor |
| Mounting scheme | Direct mounting |
| Insulation resistance (500 VDC megger) | 100 Mohm min. (to GND) |
| Dielectric strength | 2000 VAC for one minute (to GND) |
| Lighting impulse (1.2/50 µs) | ±4000 V, three times each (to GND) |
| Vibration resistance | 10 – 55 Hz, 0.5mm/p-p |
| Impact resistance | 98m/S ² (10G) |

Existing PLC supported

B1057

Reference information regarding models having relays

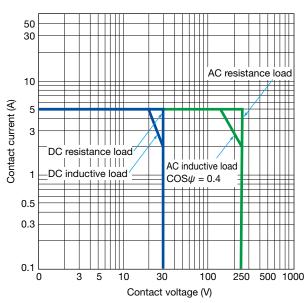
Applicable models: PS-YSJ1-RY1 • PS-YSJ1-RY2 • PS-YSJ2-RY1 • PS-YSJ1000-1-RY1 PS-YSJ1000-0-RY2 • PS-YSJ1-RY1-S • PS-YSJ1-RY2-S • PS-YSJ2-RY1-S

1. Relay ratings

| Rated voltage | Rated current | Coil resistance | Operating voltage | Release voltage | Max. permissible voltage | Power consumption |
|---------------|---------------|-----------------|----------------------|--------------------|-----------------------------|-------------------|
| 24 VDC | 8.3 mA | 2.880Ω±10% | 70% max. | 10% min. | Approx. 110% | 200 mW/point |

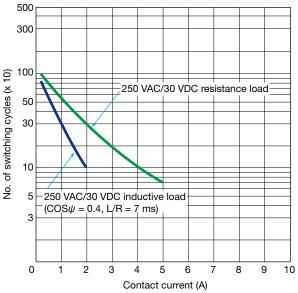
2. Switching performance

| Item | Load | | |
|------------------------|-------------------------------|---|--|
| Resistance load | 250 VAC/2 A, 24 VDC/2 A | | |
| Contact resistance | 100 Mohm max. (initial value) | | |
| | Mechanical | At least 20 x 10 ⁶ switching cycles at a rate of 1800 cycles/h | |
| Durability | Electrical | At least 3 x 10 ⁵ 250 VAC/2 A resistance load cycles | |
| | | At least 3 x 10 ⁵ 30 VDC/2 A resistance load cycles at a switching rate of 1800 cycles/h | |
| Failure rate (P level) | 5 VDC/10 m | A | |



Max. switching capacity

Durability curves



3. Notes

1. The applicable Adaptor models are rated at 2 A although the relays used are rated at 5 A.

Relays used are not of socket type, and cannot be replaced.
 Pay due attention to working and operating conditions of the Adaptors prior to using them.

- 3. The durability of relays may vary significantly depending on the switching conditions.
- 4. L-load actuated by a relay may cause reverse voltage to occur at switching off, resulting in generation of noises. Be sure to use a surge absorption circuit when using L-load.

Installation mount



Features

- The installation mount allows you to take advantage of the space in the depth direction of the control panel so as
 to install new PLCs without the need for occupying a space outside the control panel.
- The lockable upper cover of the installation mount can be opened for smooth and easy installation and maintenance of PLC modules, and is able to withstand up to 10 kg of weight.
- Installation mounts are custom-made, depending on the size and number of PLCs from various manufacturers that are available at time of order.
- The mounting space of existing PLC modules can be used to install the installation mount.

Installation procedure



Place PLC Renewal adapters on the bottom of the installation mount and fit terminal blocks to the adapters.





2

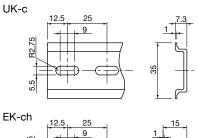
Connect conversion cables to the adapters.

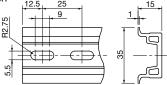
3

Place new PLC modules on top of the installation mount and plug the connector of the conversion cables into new modules.

Accessories

| Item | Model name | Applicable Rail | Length | No. of pieces per package |
|---------------|---------------|--------------------|------------------|---------------------------|
| Mounting Rail | UK-c | | 1000, 1500, 2000 | 10 |
| | EK-ch | — 1000, 1500, 2000 | | 10 |
| Rail End Cap | UK-ec | UK-c | _ | 100 |
| | EK-ec | EK-ch | _ | 100 |
| End Bracket | UK-b | UK-c, EK-ch | — | 100 |
| | EK-b | UK-c, EK-ch | _ | 100 |





Mounting Rail



R S

Rail End Cap

EK-ec

End Bracket



UK-b



EK-b

Safety Precautions

Please use appropriate current and voltage according to the manual.

Our products were not designed or manufactured for use in devices or systems directly related to human life. Users who intend to use the product described in this manual for special purposes must contact Toho Technology Inc, beforehand. If this product is to be involved a life and death situation or in a facility where failure may cause a serious accident, safety devices MUST be installed to minimize the likelihood of any accident.

The products and specifications described in this manual or the content and presentation of the manual may be changed without notice to improve the product and/or the manual.



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