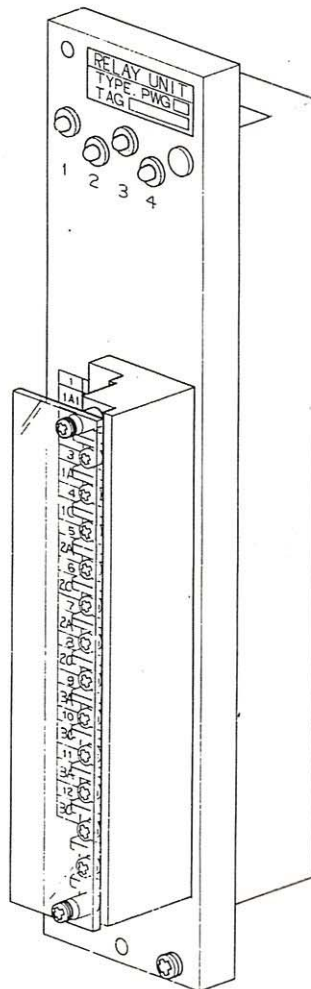


Instruction Manual

RELAY UNIT FOR ANALOG

SIGNALS SELECTION

TYPE : PWG



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1. GENERAL

This relay unit is used to select a TELEPERM input signal. Two types of units, which is PWG2 for selection of 1 ~ 5V DC input signal, PWG3 for selection of thermocouple input signal, are available.

2. SPECIFICATIONS AND CODE SYMBOLS

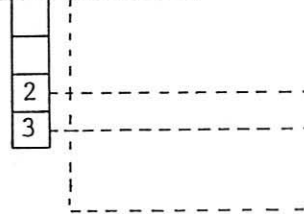
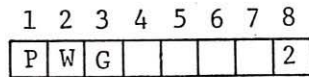
2.1 Specifications

A paranthesis "[]" indicates the specification of PWG3

- 1. Rated operating voltage : 24V AC, 24V DC
- 2. Withstand voltage
 (Terminal to chassis) : 1500V AC, 1 min
 (Terminal to terminal) : 500V AC, 1 min
- 3. Insulation resistance : 100MΩ, 1 min (500V DC)
- 4. Contact rating : 2A max. (500V, DC max.)
 [1A max.]
- 5. Power consumption : 24V DC 3.5W or less
 24V AC 9 VA or less

2.2 Code symbols

Types are encoded with a total of 8 alphabetical letters and numerals as explained below:

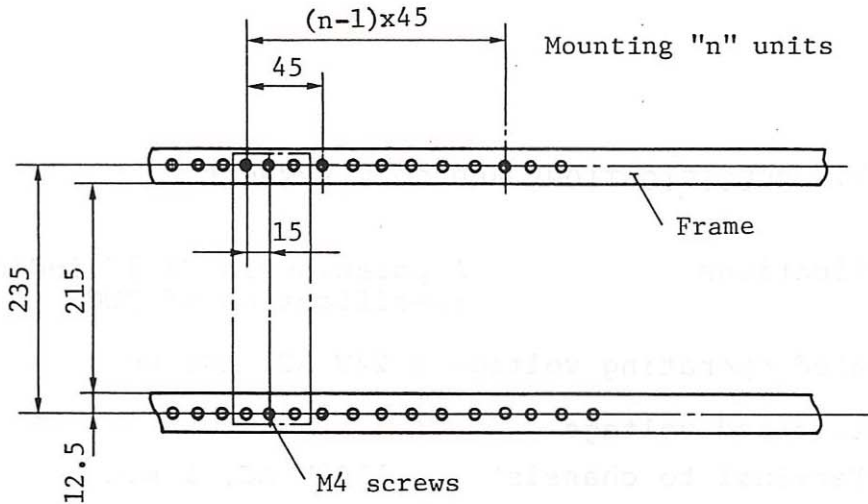


Description
Built-in 1C contact mercury relay, 5 pieces (For 1-5V DC)
Built-in 2M contact low-thermal, emf relay, 4 pieces
C: 24V AC/24V DC (Specify when the 4th digits is "2")
A: 24V AC
B: 24V DC

3. MOUNTING

3.1 Mounting

Attach the frames in upper and lower positions as shown below, placing the indicators in the upper position.



3.2 Precautions

Attach the units in vertical position as shown in outline, because they contain mercury relays.

Type : PWG

4. PWG3 (FOR SELECTION OF INPUT SIGNAL 1 ~ 5V DC)

4.1 Outline

Five elements built-in type

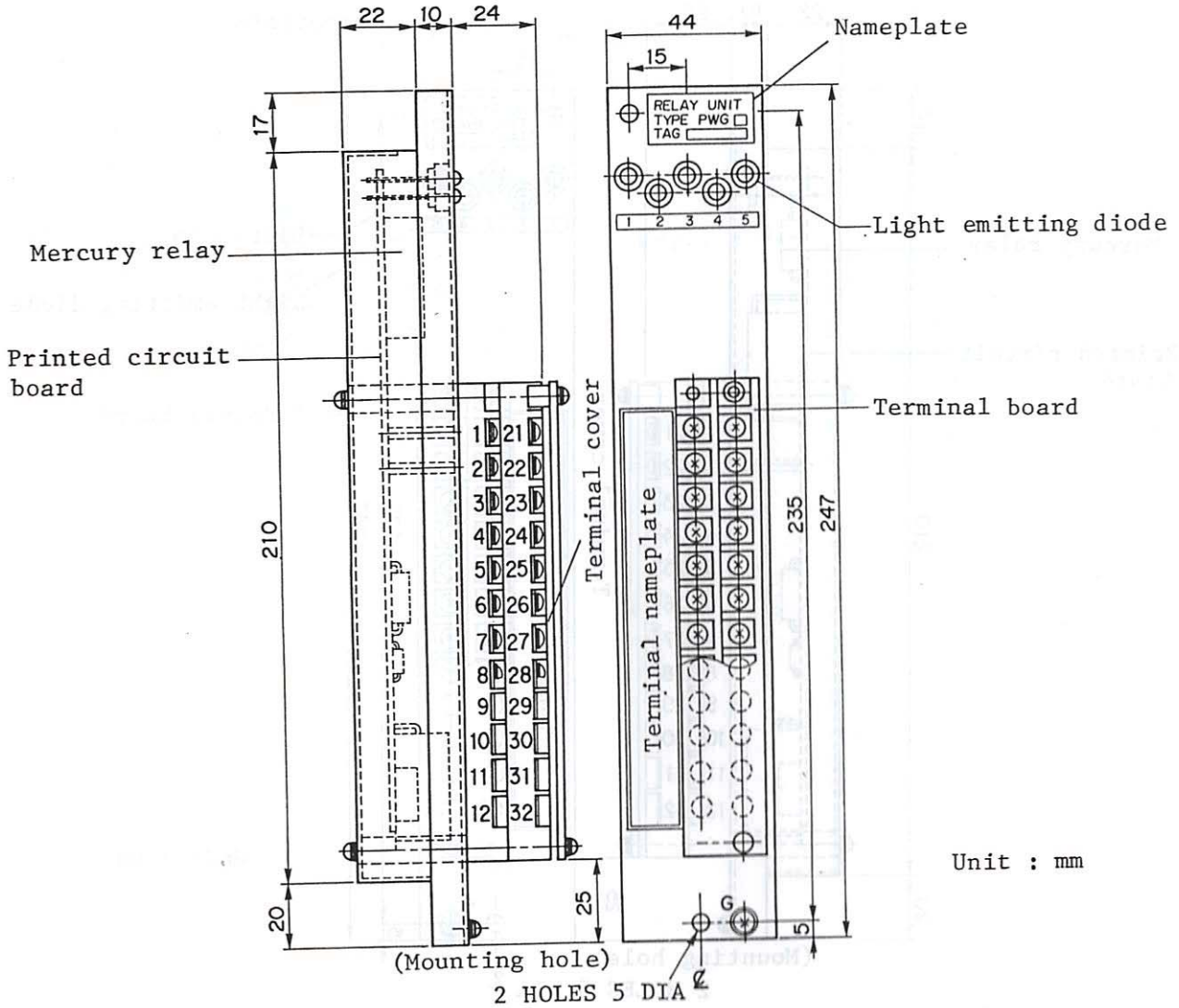
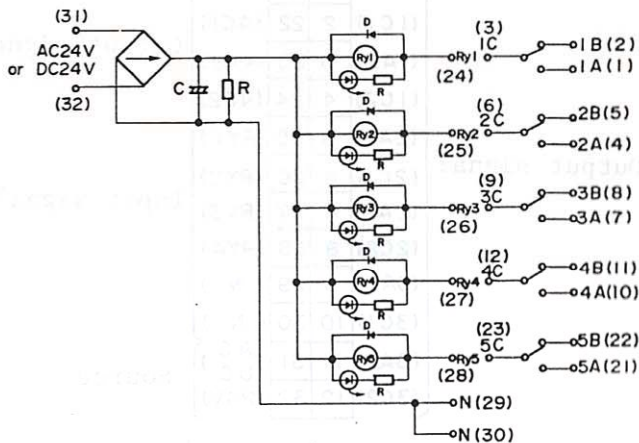


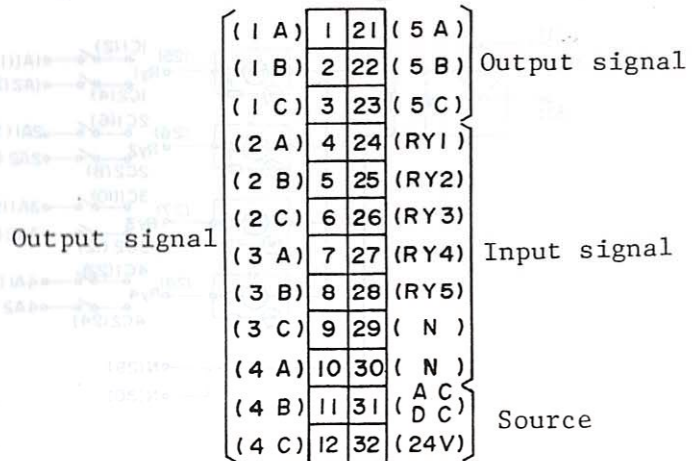
Fig. 1

4.2 Connection diagram (PWG2)

(a) Inner circuit diagram



(b) Terminal block connection diagram

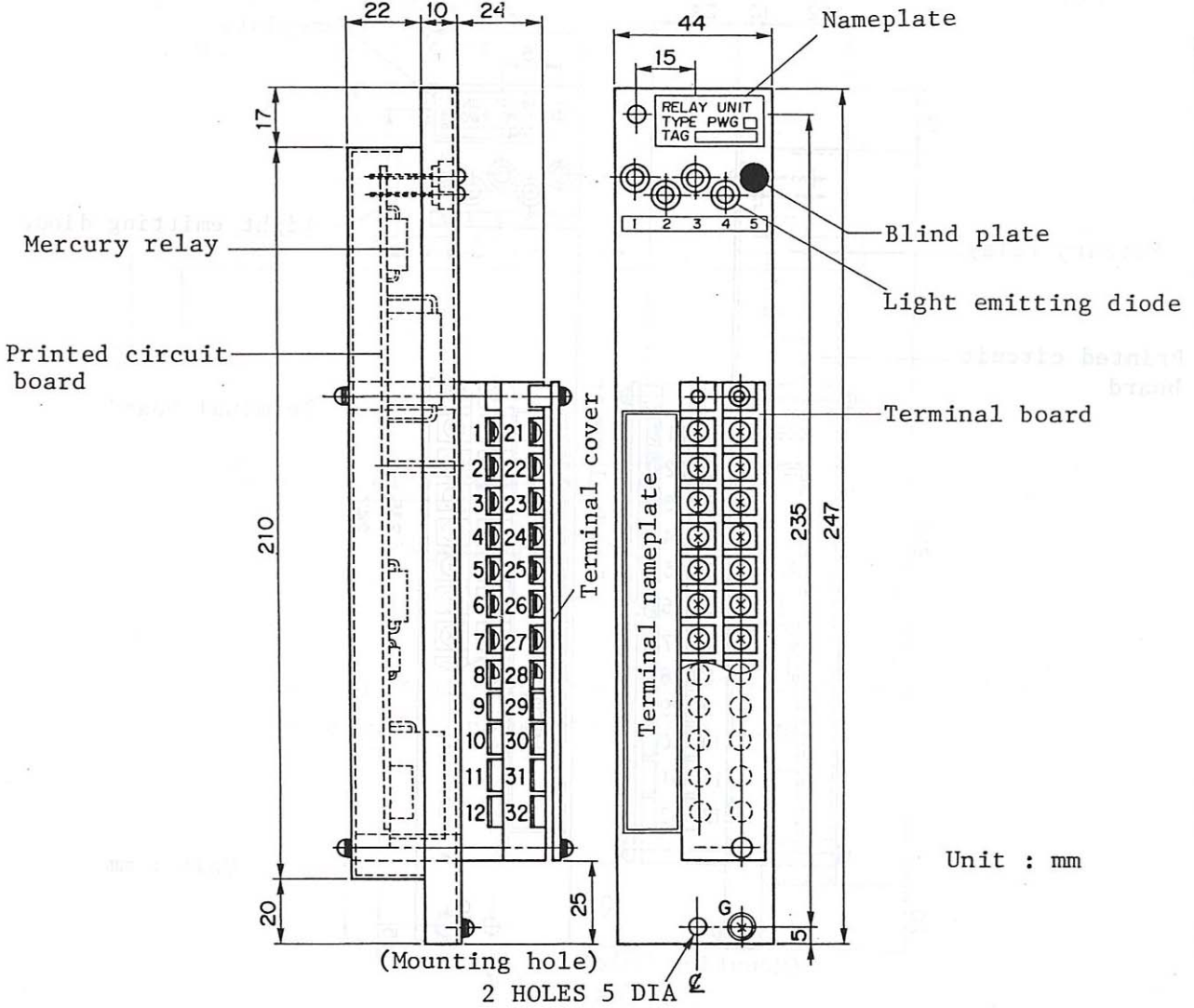


Type : PWG

5. PWG3 (FOR SELECTION OF THERMOCOUPLE INPUT)

5.1 Outline

Four elements built-in type



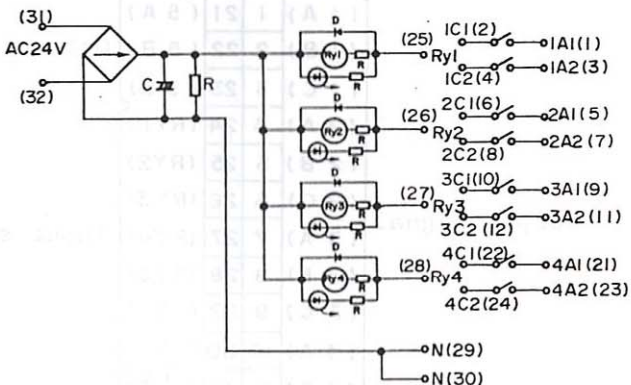
Unit : mm

Fig. 2

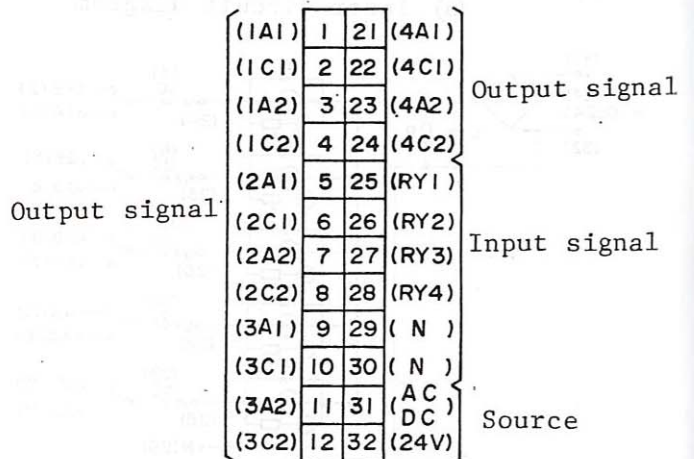
5.2 Connection diagram (PWG3A)

For 24V AC

(a) Inner circuit diagram



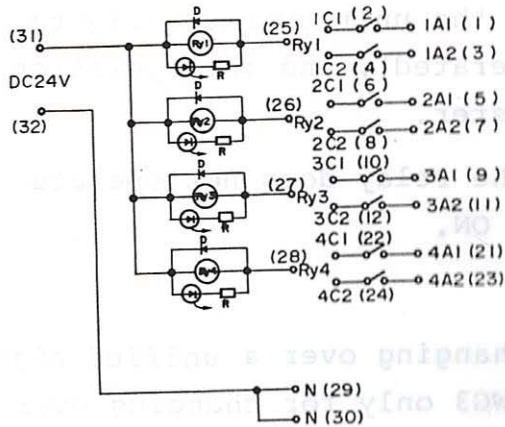
(b) Terminal block connection diagram



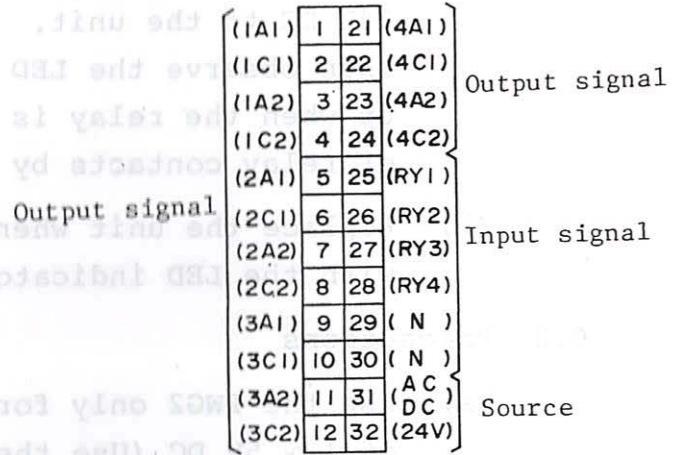
5.3 Connection diagram (PWG3D)

For 24V DC

(a) Inner circuit diagram



(b) Terminal block connection diagram



Type : PWG

6. MAINTENANCE AND CHECK

6.1 Check of operation

- (a) Make sure of the operation of each relay through contact input, by applying a voltage of 24V AC or 24V DC to the unit.

Then observe the LED on the unit surface (lights up when the relay is operated), and the operation of relay contacts by tester.

- (b) Replace the unit when the relay does not operate with the LED indicators ON.

6.2 Precautions

- (a) Use the PWG2 only for changing over a unified signal of 1 ~ 5V DC (Use the PWG3 only for changing over a small voltage of thermocouple input etc.)

- (b) The unit incorporates a relay circuit of open-collector (N-common).

Be careful about disconnection of input signal (Refer to "internal circuit diagram" as shown above).