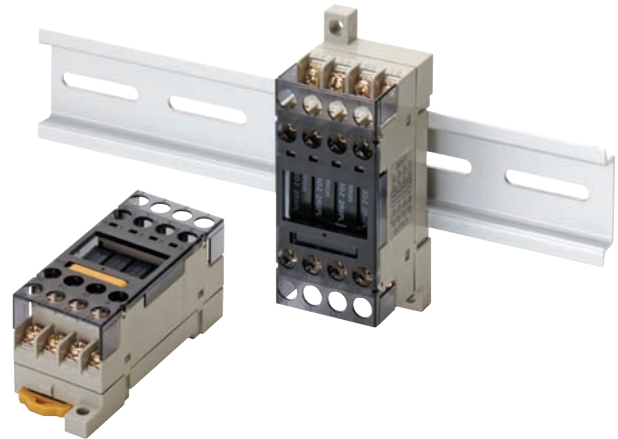


## Easy-to-use, Space-saving Terminal Relay with Four-point Output

- Almost the same size as PYF Socket: 31 x 35 x 68 mm (W x H x D)
- Each terminal circuit (with coil or contact) is independent from one another.
- Short Bar ensures easy connection of common and adjacent terminals.
- Provided with a terminal cover that prevents electric-shock accidents.
- Relay and MOS FET relay models are available.
- LED operation indicator.
- Built-in diode absorbs coil surge.
- Mounts either on DIN track or screws.
- Tool for easy mounting or removal of Relays provided.
- UL, CSA, and VDE certification for standard models (VDE: G6D-F4B only).



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

## Model Number Structure

### Model Number Legend

G6D/G3DZ-  

1 2

1. Terminal Form  
F: Flat type

2. Number of Relays Mounted  
4B: 4

## Ordering Information

When your order, specify the rated voltage.

### List of Models

| Output                     | Contact configuration | Model    | Rated voltage |
|----------------------------|-----------------------|----------|---------------|
| Relay output               | SPST-NO × 4           | G6D-F4B  | 12 VDC        |
|                            |                       |          | 24 VDC        |
| Power MOS FET relay output |                       | G3DZ-F4B | 12 VDC        |
|                            |                       |          | 24 VDC        |

**Note:** When ordering add the rated coil voltage to the model number.

Example: G6D-F4B 24 VDC  
└─── Rated coil voltage

# Specifications

## ■ Ratings

### Coil Ratings (per G6D Relay)

| Rated voltage | Rated current | Coil resistance | Must operate voltage     | Must release voltage | Max. voltage | Power consumption |
|---------------|---------------|-----------------|--------------------------|----------------------|--------------|-------------------|
| 12 VDC        | 18.7 mA       | 720 $\Omega$    | 70% max.<br>(see note 1) | 10% min.             | 130%         | Approx. 200 mW    |
| 24 VDC        | 10.5 mA       | 2,880 $\Omega$  |                          |                      |              |                   |

- Note:**
1. The must operate voltage is 75% or less of the rated voltage if the Relay is mounted upside down.
  2. Rated current and coil resistance were measured at a coil temperature of 23°C with a tolerance of  $\pm 10\%$ .
  3. Operating characteristics were measured at a coil temperature of 23°C.
  4. The maximum allowable voltage is the maximum value of the allowable voltage range for the relay coil operating power supply. There is no continuous allowance.
  5. The rated current includes the terminal's LED current.

### Contact Ratings (per G6D Relay)

| Item  | Resistive load ( $\cos\phi = 1$ ) |
|---|-----------------------------------|
| Rated load                                  | 3 A at 250 VAC, 3 A at 30 VDC     |
| Rated carry current                         | 5 A                               |
| Max. switching voltage                      | 250 VAC, 30 VDC                   |
| Max. switching current                      | 5 A                               |
| Max. permissible capacity (reference value) | 1,250 VA, 150 W                   |
| Error rate (reference value) (see note)     | 5 VDC, 10 mA                      |

**Note:** This value is for a switching frequency of 120 times per minute.

## ■ Power MOS FET Relay Specifications

### Input (per G3DZ Power MOS FET Relay)

| Rated voltage | Operating voltage | Must operate voltage level | Must release voltage level | Input impedance         | Rated current     |
|---------------|-------------------|----------------------------|----------------------------|-------------------------|-------------------|
| 12 VDC        | 9.6 to 14.4 VDC   | 9.6 VDC max.               | 1 VDC min.                 | 2 k $\Omega$ $\pm 20\%$ | 8.0 mA $\pm 20\%$ |
| 24 VDC        | 19.2 to 28.8 VDC  | 19.2 VDC max.              |                            | 4 k $\Omega$ $\pm 20\%$ | 8.2 mA $\pm 20\%$ |

**Note:** The rated current includes the terminal's LED current.

### Output (per G3DZ Power MOS FET Relay)

| Load voltage                 | Load current       | Inrush current |
|------------------------------|--------------------|----------------|
| 3 to 264 VAC<br>3 to 125 VDC | 100 $\mu$ to 0.3 A | 6 A (10 ms)    |

**Note:** There is no output polarity for the G3DZ.