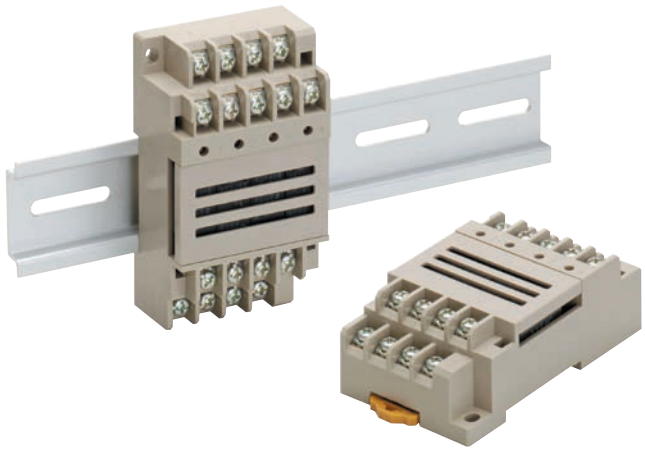
Terminal Relay

G6B-4CB

CSM_G6B-4CB_DS_E_4_7

Compact Terminal Relay with SPDT Relays and 4 Outputs

- Four G6B-2114P-US Relays mounted.
- LED operation indicator.
- Built-in diode absorbs coil surge.
- Special socket used for easy Relay replacement.
- Mounts either on DIN track or with screws.



Ordering Information

When your order, specify the rated voltage.

■List of Models

Contact configuration	Coil terminal shape	Model	Rated voltage
Four SPDT relays	Phillips screw terminals	G6B-4CB	12 VDC
			24 VDC

■Accessories (Order Separately)

Replacement Relays

Model	Rated voltage
G6B-2114P-US-P6B	12 VDC
	24 VDC

Specifications

■Ratings

Coil Ratings (per G6B Relay)

Rated voltage (V)		Rated current (mA)	Coil resistance (Ω)	Must operate voltage (V)	Release voltage (V)	Max. voltage (V)	Power consumption (mW)
DC	12	27.0	480	80% max.	10% min.	110%	Approx. 300
	24	14.7	1,920				

Note: 1. Rated current and coil resistance were measured at a coil temperature of 23°C with a tolerance of ±10%.
2. Operating characteristics were measured at a coil temperature of 23°C.
3. The rated current includes the terminal's LED current.

Contact Ratings (per G6B Relay)

Item \ Load	Resistive load (cosϕ = 1)	Inductive load (cosϕ = 0.4 L/R = 7 ms)
Rated load	5 A at 250 VAC, 5 A at 30 VDC	1.5 A at 250 VAC, 1.5 A at 30 VDC
Rated carry current	5 A	
Max. switching voltage	250 VAC, 125 VDC	
Max. switching current	5 A	1.5A
Max. switching power (reference value)	1,250 VA, 150 W	375 VA, 45 W

■Characteristics (per G6B Relay)

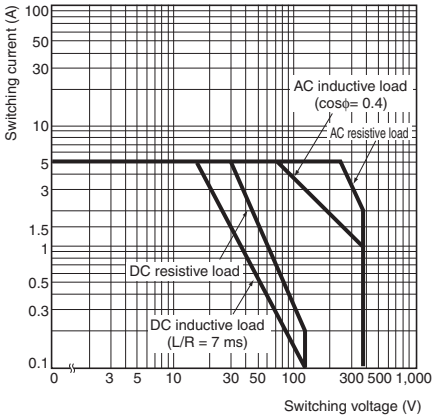
Contact resistance (See note 2.)		100 mΩ max.
Must operate time (See note 3.)		10 ms max.
Release time (See note 3.)		15 ms max.
Insulation resistance		1,000 MΩ min. (at 500 VDC)
Dielectric strength		1,000 VAC, 50/60 Hz for 1 min between contacts of same polarity
		2,000 VAC, 50/60 Hz for 1 min between contacts of different polarity
		2,000 VAC, 50/60 Hz for 1 min between coil and contacts.
Vibration resistance	Destruction	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)
	Malfunction	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)
Shock resistance	Destruction	500 m/s^2
	Malfunction	100 m/s^2
Endurance	Mechanical	50,000,000 operations min. (at 18,000 operations/hr)
	Electrical (See note 3.)	100,000 operations min. (rated load) (at 1,800 operations /hr)
Minimum permissible load (reference value) (See note 4.)		5 VDC, 10 mA
Ambient operating/storage temperature		–25 to 55°C (with no icing)
Ambient operating humidity		45% to 85%
Weight		Approx. 95 g

Note: 1. The above values are initial values.
2. Measurement condition: 1 A at 5 VDC
3. Ambient temperature: 23°C
4. This value is measured at 120 operations/min.

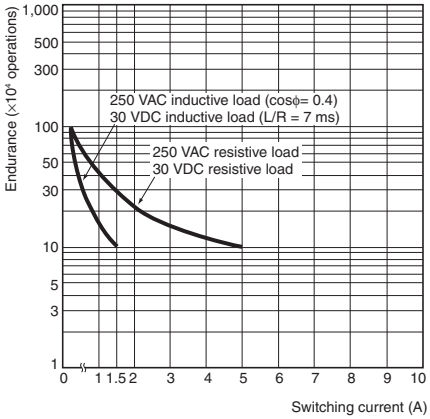
Engineering Data

■Reference Data

Maximum Switching Power



Endurance



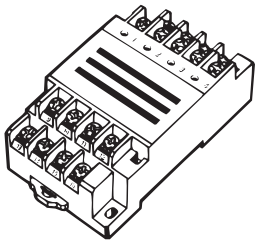
Note: 1. Measurement values taken from production line samples have been plotted in graphs to provide this data. Use this data only as a guide. Relays are mass-produced, so allowances must be made for a certain amount of variation in measurement data.
2. The data shown above are values for a single relay.

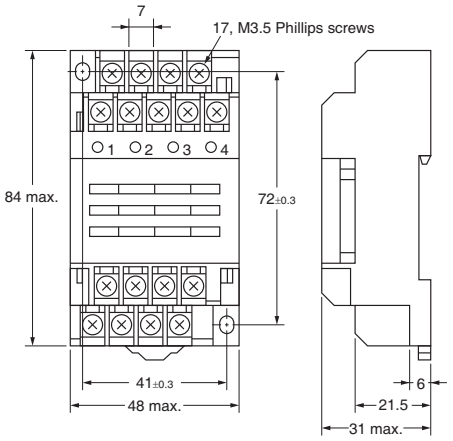
Dimensions

Note: All units are in millimeters unless otherwise indicated.

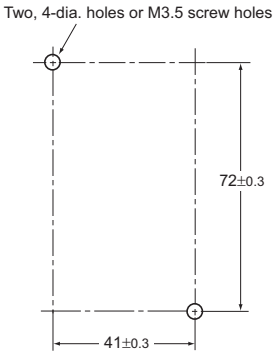
■Relays

G6B-4CB

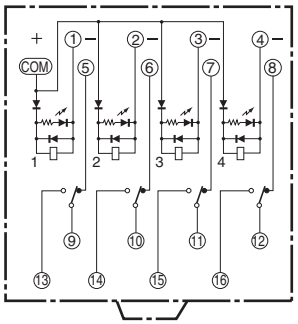




Mounting Holes



Terminal Arrangement/ Internal Connections (Top View)



Note: Do not reverse the coil polarity.

■Accessories (Order Separately)

Relay Removal Tool and Short Bar (Order Separately)

Refer to *Options for the G6B-4CB, G6B-4□□ND, and G3S4*.

Terminal Cover

No terminal cover is available.

Relay Mounting Products (Order Separately)

Safety Precautions

Refer to *Safety Precautions for All Relays*.

■Precautions for Correct Use

When short-circuit wiring the NO, NC, or transfer contacts, be sure that the circuit configuration will not result in overcurrents or burnouts. The G6B-4CB uses G6B-2114P-US SPST-NO and SPST-NC contacts as the transfer contacts, which means there may be overlap when switching due to the asynchronous operation of the NO and NC contacts or arcs causing shorts between NO and NC contacts depending on the type of load.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.
To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

In the interest of product improvement, specifications are subject to change without notice.

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