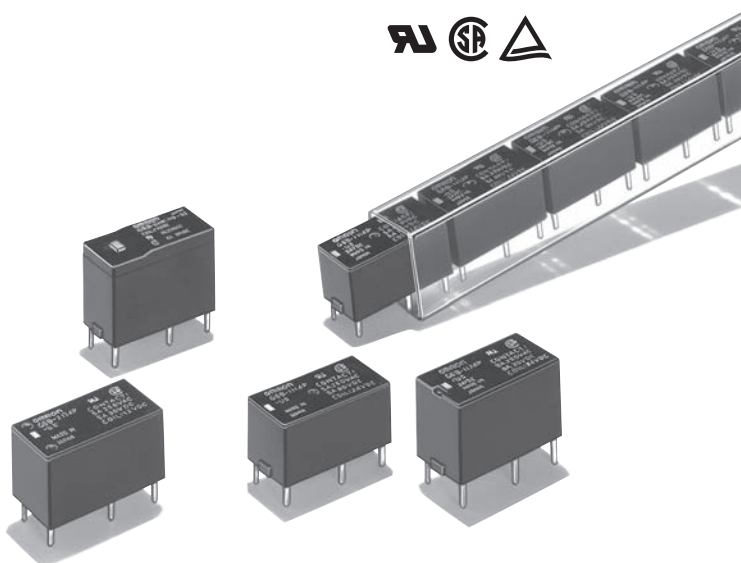


## High Capacity and High Dielectric Strength Miniature Relay with Fully Sealed Construction in 5 A (8 A) SPST-NO(1a), SPST-NO+SPST-NC(1a1b), DPST-NO(2a), DPST-NC(2b) Types



- P6B model for connecting sockets are available.
- High insulation with dielectric strength of 3,000VAC between coil and contacts (impulse withstand voltage of 6 kV).
- Standard model conforms to UL/CSA standards.
- AgSnIn contacts suitable for loads that generate surge voltage (inductive load, capacity load, etc.) are available. (-FD type)
- Ultrasonic cleanable models are available. (-U type)
- Operation indicator & built-in surge absorption diode models are available. (-ND type)
- 2-Pole type available.
- High-reliability models are available.

G6B-1184P-US model (The relay used in Terminal Relay G6B-48BND)

RoHS Compliant

### Application Examples

- Ideal for output applications of control equipments

### Model Number Legend

G6B□-□□□□□-□-□-□-□-□-□  
 1 2 3 4 5 6 7 8 9 10 11

#### 1. Relay Function

None: Single-side stable  
 U : Single-winding latching  
 (G6B□-1114 models only)  
 K : Double-winding latching  
 (G6B□-1114 models only)

#### 2. Contact Form

21: SPST-NO + SPST-NC  
 22: DPST-NO  
 20: DPST-NC  
 11: SPST-NO

#### 3. Classification

1: Standard  
 7: High-capacity  
 8: Single crossbar

#### 4. Enclosure rating

4: Fully sealed  
 7: Flux protection

#### 5. Terminal Shape

P: Straight PCB terminals  
 Socket mounting terminals  
 C: Self-clinching PCB

#### 6. Contact material

None: Standard (Ag-alloy (Cd free))  
 FD : AgSnIn contact  
 (Suitable for DC inductive load with high inrush current)

#### 7. Coil Polarity

None: 5, 6 Terminal (+), 1, 2 Terminal (-)  
 1 : 5, 6 Terminal (-), 1, 2 Terminal (+)

#### 8. Operation Indicator Diode Availability

None: Standard  
 ND : Operation indicator & coil surge absorption diode  
 (for -1177 type only)

#### 9. Approved Standards

US: UL/CSA

#### 10. Washability

None: Standard  
 U : For ultrasonically cleanable

#### 11. Mounting

None: Mounted directly to PCB  
 P6B : Mounted to Socket

## ■ Ordering Information

### ● Standard Models (UL, CSA certified)

Number of poles	Relay Function	Contact form	Contact material Terminals	Standard (Ag-alloy (Cd free))		AgSnIn contact		Minimum packing unit
				Model	Rated coil voltage	Model	Rated coil voltage	
1-pole	Single-side stable	SPST-NO (1a) (Standard)	Straight PCB	<b>G6B-1114P-US</b>	5, 6, 12, 24 VDC	<b>G6B-1114P-FD-US</b>	5, 6, 12, 24 VDC	100 pcs/tray
			Self-clinching PCB	<b>G6B-1114C-US</b>	5, 6, 12, 24 VDC	<b>G6B-1114C-FD-US</b>	12, 24 VDC	
		SPST-NO (1a) (High-capacity)	Straight PCB	<b>G6B-1174P-US</b>	5, 6, 12, 24 VDC	<b>G6B-1174P-FD-US</b>	5, 6, 12, 24 VDC	20 pcs/tube
			Self-clinching PCB	<b>G6B-1174C-US</b>	5, 12, 24 VDC	<b>G6B-1174C-FD-US</b>	5, 12, 24 VDC	
		SPST-NO (1a) (High-reliability )	Straight PCB	<b>G6B-1184P-US</b>	5, 12, 24 VDC	---	---	100 pcs/tray
			Self-clinching PCB	---	---	---	---	
	Single-winding latching	SPST-NO (1a) (Standard)	Straight PCB	<b>G6BU-1114P-US</b>	5, 6, 12, 24 VDC	<b>G6BU-1114P-FD-US</b>	5, 12, 24 VDC	
			Self-clinching PCB	<b>G6BU-1114C-US</b>	12 VDC	---	---	
	Double-winding latching	SPST-NO (1a) (Standard)	Straight PCB	<b>G6BK-1114P-US</b>	5, 6, 12, 24 VDC	<b>G6BK-1114P-FD-US</b>	5, 6, 12, 24 VDC	
			Self-clinching PCB	<b>G6BK-1114C-US</b>	5, 6, 12, 24 VDC	<b>G6BK-1114C-FD-US</b>	24 VDC	
	Single-side stable	SPST-NO (1a) (Built-in high-capacity operation indicator & diode)	Straight PCB	<b>G6B-1177P-ND-US</b>	5, 12, 24 VDC	<b>G6B-1177P-FD-ND-US</b>	5, 12, 24 VDC	100 pcs/tray
			Self-clinching PCB	<b>G6B-1177C-ND-US</b>	5, 12, 24 VDC	<b>G6B-1177C-FD-ND-US</b>	12, 24 VDC	
2-pole	Single-side stable	SPST-NO (1a)+ SPST-NC (1b) (Standard)	Straight PCB	<b>G6B-2114P-US</b>	5, 6, 12, 24 VDC	<b>G6B-2114P-FD-US</b>	5, 6, 12, 24 VDC	100 pcs/tray
			Self-clinching PCB	<b>G6B-2114C-US</b>	5, 12, 24 VDC	<b>G6B-2114C-FD-US</b>	5, 12 VDC	
		DPST-NO (2a) (Standard)	Straight PCB	<b>G6B-2214P-US</b>	5, 6, 12, 24 VDC	<b>G6B-2214P-FD-US</b>	5, 6, 12, 24 VDC	
			Self-clinching PCB	<b>G6B-2214C-US</b>	5, 12, 24 VDC	<b>G6B-2214C-FD-US</b>	5, 12, 24 VDC	
		DPST-NC (2b) (Standard)	Straight PCB	<b>G6B-2014P-US</b>	5, 6, 12, 24 VDC	<b>G6B-2014P-FD-US</b>	5, 6, 12, 24 VDC	
			Self-clinching PCB	<b>G6B-2014C-US</b>	5, 6, 12, 24 VDC	<b>G6B-2014C-FD-US</b>	12, 24 VDC	

Note: AgSnIn contact models are highly welding-resistant, and roughening of contacts due to inrush current and inductive load is lessened.

### ● Models for Reverse Coil Polarity

Number of poles	Relay Function	Contact form	Contact material Terminals	Standard (Ag-alloy (Cd free))		AgSnIn contact		Minimum packing unit
				Model	Rated coil voltage	Model	Rated coil voltage	
1-pole	Single-side stable	SPST-NO (1a) (Standard)	Straight PCB	<b>G6B-1114P-1-US</b>	5, 6, 12, 24 VDC	<b>G6B-1114P-FD-1-US</b>	24 VDC	100 pcs/tray
			Self-clinching PCB	---	---	---	---	
		SPST-NO (1a) (High-capacity)	Straight PCB	<b>G6B-1174P-1-US</b>	5, 12, 24 VDC	---	---	20 pcs/tube
			Self-clinching PCB	---	---	---	---	
	Single-winding latching	SPST-NO (1a) (Standard)	Straight PCB	<b>G6BU-1114P-1-US</b>	5, 12 VDC	---	---	100 pcs/tray
			Self-clinching PCB	---	---	---	---	
2-pole	Single-side stable	SPST-NO (1a) (Standard)	Straight PCB	<b>G6BK-1114P-1-US</b>	5, 6, 12, 24 VDC	---	---	
			Self-clinching PCB	---	---	---	---	
		SPST-NO (1a)+ SPST-NC (1b) (Standard)	Straight PCB	<b>G6B-2114P-1-US</b>	5, 6, 12, 24 VDC	<b>G6B-2114P-FD-1-US</b>	12, 24 VDC	
			Self-clinching PCB	---	---	---	---	
		DPST-NO (2a) (Standard)	Straight PCB	<b>G6B-2214P-1-US</b>	5, 12, 24 VDC	---	---	
			Self-clinching PCB	---	---	---	---	

Note: AgSnIn contact models are highly welding-resistant, and roughening of contacts due to inrush current and inductive load is lessened.

### ● Models for Ultrasonically Cleanable

Number of poles	Relay Function	Contact form	Contact material Terminals	Standard (Ag-alloy (Cd free))		AgSnIn contact		Minimum packing unit
				Model	Rated coil voltage	Model	Rated coil voltage	
1-pole	Single-side stable	SPST-NO (1a) (Standard)	Straight PCB	<b>G6B-1114P-US-U</b>	5, 6, 12, 24 VDC	<b>G6B-1114P-FD-US-U</b>	6, 12, 24 VDC	100 pcs/tray
			Self-clinching PCB	<b>G6B-1114C-US-U</b>	5, 12, 24 VDC	---	---	
	Single-winding latching	SPST-NO (1a) (Standard)	Straight PCB	<b>G6BU-1114P-US-U</b>	24 VDC	---	---	
			Self-clinching PCB	---	---	---	---	
	Double-winding latching	SPST-NO (1a) (Standard)	Straight PCB	<b>G6BK-1114P-US-U</b>	5, 6, 12, 24 VDC	<b>G6BK-1114P-FD-US-U</b>	12, 24 VDC	
			Self-clinching PCB	<b>G6BK-1114C-US-U</b>	24 VDC	---	---	
2-pole	Single-side stable	SPST-NO (1a)+ SPST-NC (1b) (Standard)	Straight PCB	<b>G6B-2114P-US-U</b>	5, 12, 24 VDC	<b>G6B-2114P-FD-US-U</b>	5, 12, 24 VDC	
			Self-clinching PCB	---	---	---	---	
		DPST-NO (2a) (Standard)	Straight PCB	<b>G6B-2214P-US-U</b>	5, 6, 12, 24 VDC	<b>G6B-2214P-FD-US-U</b>	5, 12, 24 VDC	
			Self-clinching PCB	<b>G6B-2214C-US-U</b>	12, 24 VDC	---	---	
		DPST-NC (2b) (Standard)	Straight PCB	<b>G6B-2014P-US-U</b>	5, 12, 24 VDC	<b>G6B-2014P-FD-US-U</b>	5, 12, 24 VDC	
			Self-clinching PCB	---	---	---	---	

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

Example: G6B-1114P-US DC5

Rated coil voltage

However, the notation of the coil voltage on the product case as well as on the packing will be marked as □□ VDC.

### ● Connecting Sockets (Sold Separately)

Applicable relay	Model	Minimum ordering unit
G6B-1114P(-FD)-US-P6B G6B-1174P(-FD)-US-P6B G6B-1177P(-FD)-ND-US-P6B G6BU-1114P-US-P6B	<b>P6B-04P</b>	20 pcs
G6BK-1114P-US-P6B	<b>P6B-06P</b>	
G6B-2114P-US-P6B G6B-2214P-US-P6B G6B-2014P-US-P6B	<b>P6B-26P</b>	
Removal Tool	<b>P6B-Y1</b>	1 pcs
Hold-down Clips	<b>P6B-C2</b>	

Note 1. G6B-1174P-US-P6B and G6B-1177P-ND-US-P6B are rated for 8 A when mounted on a PCB. However, when used with the P6B-04P socket models, the allowable current is derated to 5 A.

2. The P6B sockets are designed to be used with G6B-□□□□P(-FD)-US-P6B relays. Only use G6B relays that include "-P6B" in their model numbers with the sockets. Do not use standard G6B's that omit "-P6B" from their model numbers with the sockets.

3. The hold-down clips of the P6B-C2 model are not suitable for the G6B-1174P and G6B-1177P models since they have different heights.

4. Products with UL/CSA certification marks will be supplied for orders of standard models.