New Product

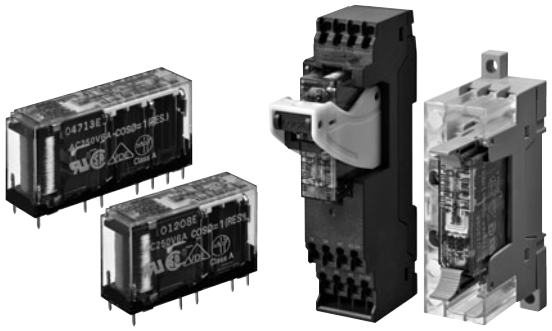
OMRON

Relays with Forcibly Guided Contacts
G7SA

Compact, Slim Relays Conforming to EN Standards

- Additional Push-In Plus terminal sockets are used to save wiring work in comparison with traditional screw terminals. (Wiring time is reduced by 60%✻ in comparison with traditional screw terminals.)
- Relays with forcibly guided contacts (EN 50205 Class A, certified by VDE).
- Supports the CE marking of machinery (Machinery Directive).
- Helps avoid hazardous machine status when used as part of an interlocking circuit.
- Four-pole and six-pole Relays are available.
- The Relay's terminal arrangement simplifies PWB pattern design.
- Reinforced insulation between inputs and outputs. Reinforced insulation between some poles of different polarity.

✻ According to OMRON actual measurement data



Note: Sockets are sold separately.

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

⚠ Be sure to read the *Safety Precautions* on page 9.

Model Number Structure

Model Number Legend

Specify the power supply voltage (coil rated voltage) when ordering.

Relays with forcibly guided contacts

G7SA-□A□B□

1 2 3

1. NO Contact Poles
2: DPST-NO
3: 3PST-NO
4: 4PST-NO
5: 5PST-NO

2. NC Contact Poles
1: SPST-NC
2: DPST-NC
3: 3PST-NC

3. Coil Rated Voltage (V)
12 VDC
18 VDC
21 VDC
24 VDC
48 VDC
110 VDC

Sockets

P7SA-□□-□-□□

1 2 3 4 5 6

1. Basic Model Name
P7SA: Socket for G7SA

2. Number of Poles
10: 4 poles (10 terminals)
14: 6 poles (14 terminals)

3. Mounting Type
F: Front-mounting
P: Back-mounting

4. LED Indicator
Blank: Without operation indicator LED/built-in diode
ND: With operation indicator LED/built-in diode

5. Terminal Type
Blank: Screw terminals when 3. is F type
PCB terminals when 3. is P type
PU: Push-In Plus terminals

6. Coil Rated Voltage (V)
24 VDC: When 4. is ND

Ordering Information

Specify the coil rated voltage when ordering.

Relays with Forcibly Guided Contacts

Type	Sealing	Poles	Contact configuration	Coil rated voltage	Model
Standard	Flux-tight	4 poles	3PST-NO, SPST-NC	12, 18, 21, 24, 48, 110 VDC	**G7SA-3A1B**
			DPST-NO, DPST-NC	12, 18, 21, 24, 48, 110 VDC	**G7SA-2A2B**
		6 poles	5PST-NO, SPST-NC	12, 18, 21, 24, 48, 110 VDC	**G7SA-5A1B**
			4PST-NO, DPST-NC	12, 18, 21, 24, 48, 110 VDC	**G7SA-4A2B**
			3PST-NO, 3PST-NC	12, 18, 21, 24, 48, 110 VDC	**G7SA-3A3B**

Sockets

Mounting	Terminal Type	LED Indicator	Poles	Coil rated voltage	Model
Front-mounting	Push-In Plus terminals	Yes	4 poles	24 VDC	**P7SA-10F-ND-PU**
			6 poles		**P7SA-14F-ND-PU**
	Screw terminals	Yes	4 poles		**P7SA-10F-ND**
			6 poles		**P7SA-14F-ND**
		No	4 poles	–	**P7SA-10F**
			6 poles		**P7SA-14F**
Back-mounting	PCB terminals	No	4 poles	–	**P7SA-10P**
			6 poles		**P7SA-14P**

Accessories (Order Separately)

Short Bars (For P7SA-□F-ND-PU)

Pitch	No. of poles	Colors	Model∗1∗2
5.2 mm	2	Red (RD) Blue (BL) Yellow (YL)	**XW5S-P2.5-2□**
	3		**XW5S-P2.5-3□**
	4		**XW5S-P2.5-4□**
	5		**XW5S-P2.5-5□**

Note: Use for crossover wiring of adjacent contact terminals (bottom) within one Socket.

∗1. Replace the box (□) in the model number with the code for the covering color. Color Options: RD = red, BL = blue, YL = yellow
Example: XW5S-P2.5-10RD when the covering color is red.

∗2. XW5S-P2.5-5□ cannot be used with P7SA-10F-ND-PU.

Parts for DIN Track Mounting

Type		Model	Minimum Order (quantity)
DIN Tracks	1 m	**PFP-100N**	1
	0.5 m	**PFP-50N**	
End Plate ∗		**PFP-M**	10
Spacer		**PFP-S**	

Refer to your OMRON website for details on the PFP-□.

∗ When mounting DIN track, please use End Plate (Model PFP-M).