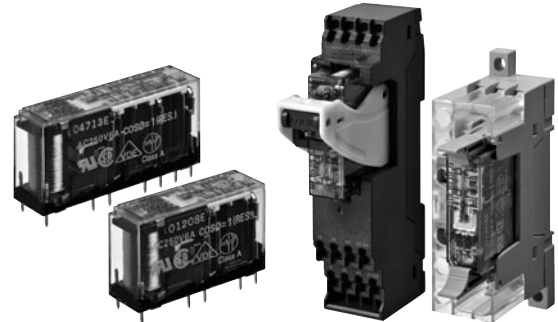


Relays with Forcibly Guided Contacts G7SA

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

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

G7SA

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	1
	0.5 m	
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).

Specifications

Ratings

Coil (4 poles)

Item	Rated current (mA)	Coil resistance (Ω)	Max. voltage (V)	Power consumption (mW)
Rated voltage				
12 VDC	30	400	110%	Approx. 360
18 VDC	20	900		
21 VDC	17.1	1,225		
24 VDC	15	1,600		
48 VDC	7.5	6,400		
110 VDC	3.8	28,810		

Coil (6 poles)

Item	Rated current (mA)	Coil resistance (Ω)	Max. voltage (V)	Power consumption (mW)
Rated voltage				
12 VDC	41.7	288	110%	Approx. 500
18 VDC	27.8	648		
21 VDC	23.8	882		
24 VDC	20.8	1,152		
48 VDC	10.4	4,606		
110 VDC	5.3	20,862		

- Note:** 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of ±15%.
 2. The maximum voltage is based on an ambient operating temperature of 23°C maximum.

Characteristics

Contact resistance *1	100 mΩ max.	
Operating time *2	20 ms max.	
Response time *3	10 ms max.	
Release time *2	20 ms max.	
Must operate voltage	75% max.	
Must release voltage	10% min.	
Maximum operating frequency	Mechanical	36,000 operations/h
	Rated load	1,800 operations/h
Insulation resistance *4	1,000 MΩ min.	
Dielectric Strength *5 *6	Between coil and contacts	4,000 VAC, 50/60 Hz for 1 min.
	Between contacts of different polarity	4,000 VAC, 50/60 Hz for 1 min. (except for followings) 4 poles (for poles 3-4 in 4-pole Relays), 6 poles (for poles 3-5, 4-6, and 5-6 in 6-pole Relays): 2,500 VAC, 50/60 Hz for 1 min.
	Between contacts of the same polarity	1,500 VAC, 50/60 Hz for 1 min.
Vibration resistance	10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)	
Shock resistance	Destruction	1,000 m/s ²
	Malfunction	100 m/s ²
Durability *7	Mechanical	10,000,000 operations min. (at approx. 36,000 operations/h)
	Electrical	100,000 operations min. (at the rated load and approx. 1,800 operations/h)
Inductive load switching capability *8 (IEC60947-5-1)	AC15 AC240V 2A DC13 DC24V 1A	
Failure rate (P level) (reference value *9)	5 VDC, 1 mA	
Ambient operating temperature *10	12 to 48 VDC: -40 to 85°C (with no icing or condensation) 110 VDC: -40 to 60°C (with no icing or condensation)	
Ambient operating humidity	5% to 85% RH	
Weight	4 poles: Approx. 22 g 6 poles: Approx. 25 g	

Note: 1. The above values are initial values.

2. Performance characteristics are based on coil temperature of 23°C.

*1. The contact resistance was measured with 1 A at 5 VDC using the voltage-drop method.

*2. These times were measured at the rated voltage and an ambient temperature of 23°C. Contact bounce time is not included.

*3. The response time is the time it takes for the normally open contacts to open after the coil voltage is turned OFF. Contact bounce time is included. Measurement conditions: Rated voltage operation, Ambient temperature: 23°C

*4. The insulation resistance was measured with a 500-VDC megohmmeter at the same locations as the dielectric strength was measured.

*5. Pole 3 refers to terminals 31-32 or 33-34, pole 4 refers to terminals 43-44, pole 5 refers to terminals 53-54, and pole 6 refers to terminals 63-64.

*6. When using a P7SA Socket, the dielectric strength between coil contacts/different poles is 2,500 VAC, 50/60 Hz for 1 min. When using Push-In Plus terminal sockets (P7SA-□F-ND-PU), the dielectric strength between coil contacts as well as between different poles is 4,000 VAC, 50/60 Hz for 1 min.

*7. The durability is for an ambient temperature of 15 to 35°C and an ambient humidity of 25% to 75%. For the durability performance to the load, refer to the Durability Curve.

*8. AC15: $\cos\phi = 0.3$, DC13: L/R = 48-ms.

*9. The failure rate is based on an operating frequency of 300 operations/min.

*10. 12 to 48 VDC: When operating between 70 and 85°C, reduce the rated carry current of 6 A by 0.1 A for each degree above 70°C.
110 VDC: When operating between 40 and 60°C, reduce the rated carry current of 6 A by 0.27 A for each degree above 40°C.

Contacts

Item	Load	Resistive load
Rated load		6 A at 250 VAC, 6 A at 30 VDC
Rated carry current		6 A
Max. switching voltage		250 VAC, 125 VDC
Max. switching current		6 A
Contact materials		Au plating + Ag alloy

Characteristics of Sockets

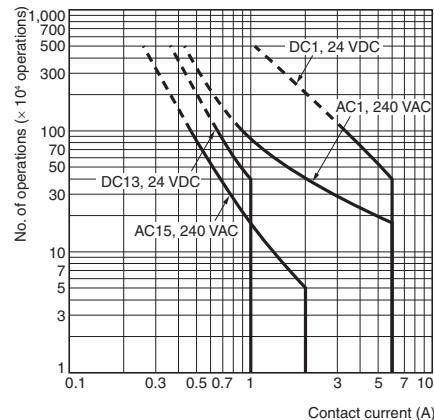
Items	Models	Push-In Plus terminals		Screw terminals		PCB terminals	
		4 poles	6 poles	4 poles	6 poles	4 poles	6 poles
		P7SA-10F-ND-PU	P7SA-14F-ND-PU	P7SA-10F(-ND)	P7SA-14F(-ND)	P7SA-10P	P7SA-14P
Ambient operating temperature		<ul style="list-style-type: none"> With operation indicator LED/built-in diode P7SA-□F-ND(-PU): -20 to +70°C Without operation indicator LED/built-in diode P7SA-□F: -40 to +85°C (with no icing or condensation) 				-40 to +85°C (with no icing or condensation)	
Ambient operating humidity		25 to 85% RH				5 to 85% RH	
Continuous carry current		6 A *1					
Dielectric strength	Between coil and contact terminals	4,000 VAC for 1 min.		2,500 VAC for 1 min.			
	Between contact terminals of different polarity	2,500 VAC for 1 min.					
	Between contact terminals of same polarity	1,500 VAC for 1 min.					
Insulation resistance		1,000 MΩ min. *2					
Weight		Approx. 58 g	Approx. 70 g	Approx. 44 g	Approx. 59 g	Approx. 9 g	Approx. 10 g

- *1. When operating the P7SA-□F-ND-PU at a temperature between 50 and 70°C, reduce the continuous current (6 A at 50°C or less) by 0.25 A for each degree above 50°C.
 When operating the P7SA-□F-ND at a temperature between 50 and 70°C, reduce the continuous current (6 A at 50°C or less) by 0.3 A for each degree above 50°C.
 When operating the P7SA-□F at a temperature between 50 and 85°C, reduce the continuous current (6 A at 50°C or less) by 0.1 A for each degree above 50°C.
- *2. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.

Engineering Data

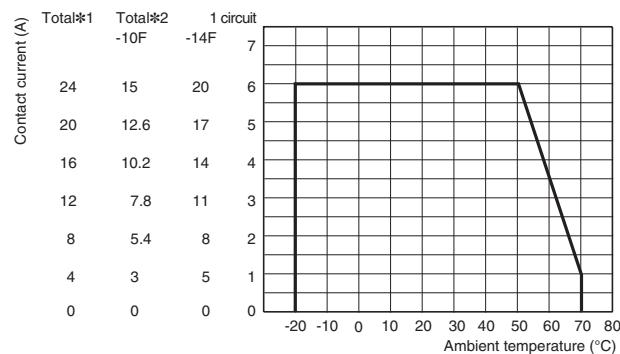
Durability Curve

G7SA-□A□B



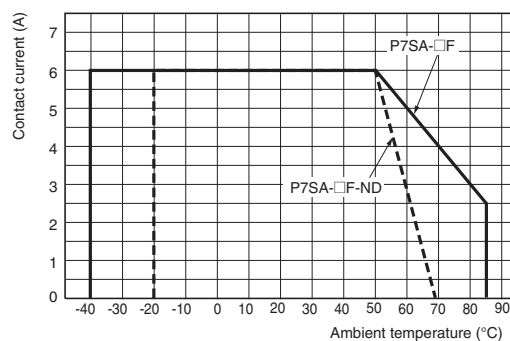
Ambient temperature and contact current

P7SA-□F-ND-PU



P7SA-□F-ND

P7SA-□F

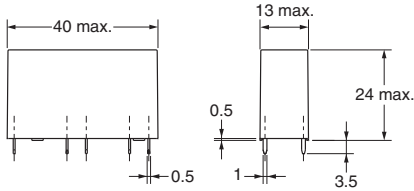
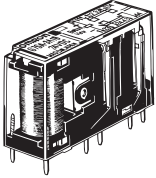


- *1. When using a G7SA-5A1B relay, be careful not to exceed the total current (24 A).
 (Example: at 50°C, 5 contacts × 4.8 A)
- *2. Certification conditions for the TÜV certification. Care should be taken not to exceed the total current.

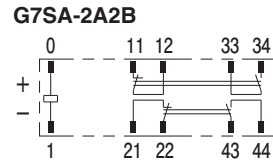
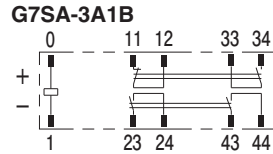
Dimensions

Relays with Forcibly Guided Contacts

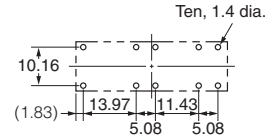
4 poles
G7SA-3A1B
G7SA-2A2B



Terminal Arrangement/
Internal Connection Diagram
(Bottom View)

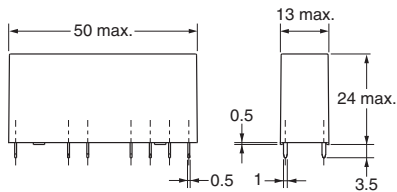
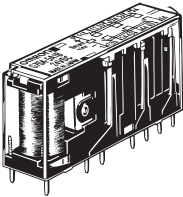


Printed Circuit Board
Design Diagram
(Bottom View)
(±0.1 tolerance)

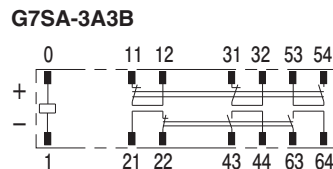
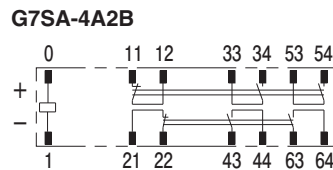
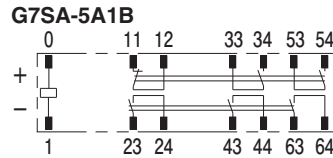


- Note: 1.** Terminals 23-24, 33-34, and 43-44 are normally open. Terminals 11-12 and 21-22 are normally closed.
- 2.** The colors of the cards inside the Relays are as follows: G7SA-3A1B: Blue and G7SA-2A2B: White.

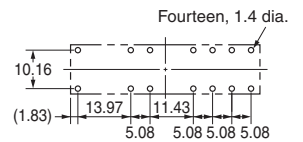
6 poles
G7SA-5A1B
G7SA-4A2B
G7SA-3A3B



Terminal Arrangement/
Internal Connection Diagram
(Bottom View)



Printed Circuit Board
Design Diagram
(Bottom View)
(±0.1 tolerance)

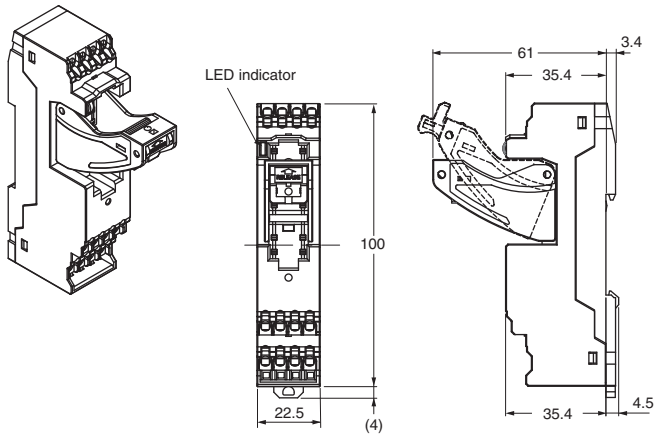


- Note: 1.** Terminals 23-24, 33-34, 43-44, 53-54, and 63-64 are normally open. Terminals 11-12, 21-22, and 31-32 are normally closed.
- 2.** The colors of the cards inside the Relays are as follows: G7SA-5A1B: Blue, G7SA-4A2B: White, and G7SA-3A3B: Yellow.

G7SA

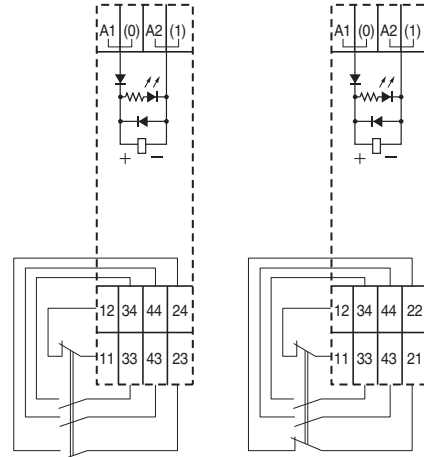
Sockets

Front-mounting Sockets Push-In Plus terminals 4 poles P7SA-10F-ND-PU



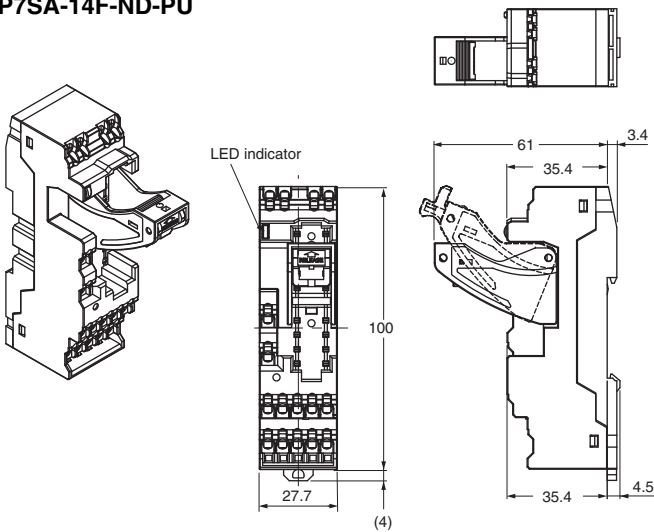
Terminals Arrangement/Internal Connections Diagram (Top View)

G7SA-3A1B Mounted G7SA-2A2B Mounted



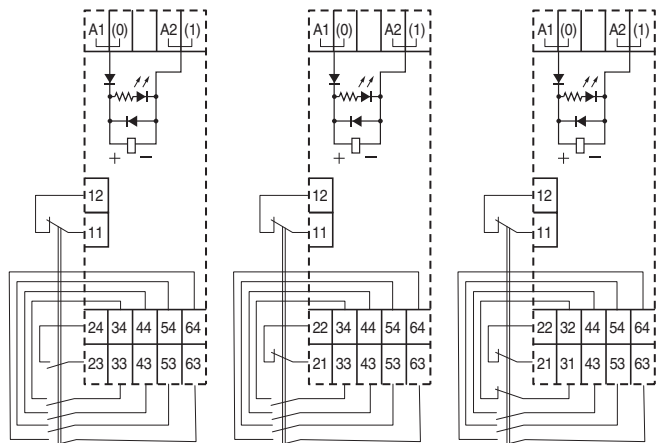
- Note:** 1. The numbers in parentheses are traditionally used terminal numbers.
2. Terminals 23-24, 33-34, and 43-44 are normally open. Terminals 11-12 and 21-22 are normally closed.

Push-In Plus terminals 6 poles P7SA-14F-ND-PU



Terminals Arrangement/Internal Connections Diagram (Top View)

G7SA-5A1B Mounted G7SA-4A2B Mounted G7SA-3A3B Mounted

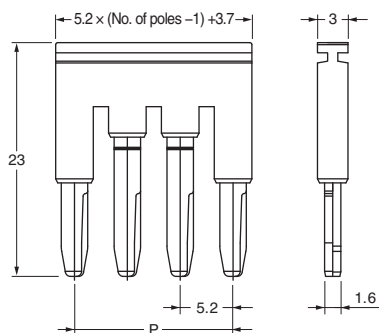


- Note:** 1. The numbers in parentheses are traditionally used terminal numbers.
2. Terminals 23-24, 33-34, 43-44, 53-54, and 63-64 are normally open. Terminals 11-12, 21-22, and 31-32 are normally closed.

Accessories (Order Separately)

Short Bars (for P7SA-□F-ND-PU)

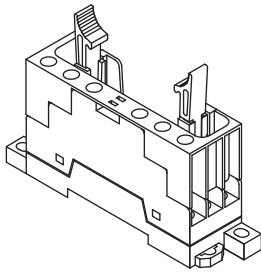
XW5S-P2.5-□□



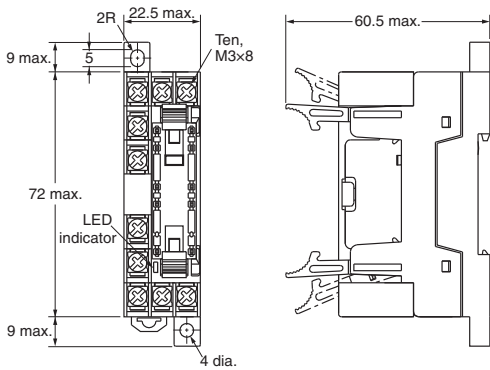
Application	Pitch	Compatible models	No. of poles	P(mm)	Colors	Model *	Maximum carry current
For Contact terminals (bottom)	5.2 mm	For P7SA-□F-ND-PU	2	5.2	Red (RD) Blue (BL) Yellow (YL)	XW5S-P2.5-2□	24 A
			3	10.4		XW5S-P2.5-3□	
			4	15.6		XW5S-P2.5-4□	
			5	20.8		XW5S-P2.5-5□	

Note: Use for crossover wiring of adjacent contact terminals (bottom) within one Socket.
* Replace the box (□) in the model number with the code for the covering color.
Color Options: RD = red, BL = blue, YL = yellow

Front-mounting Sockets
Screw terminals 4 poles
P7SA-10F, P7SA-10F-ND

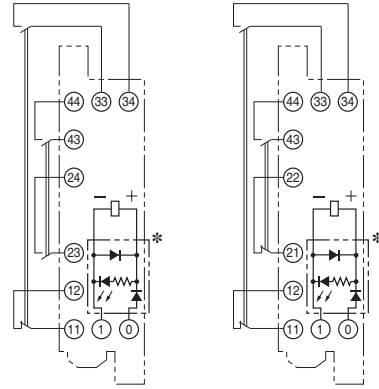


The above figure shows with the finger cover mounted.



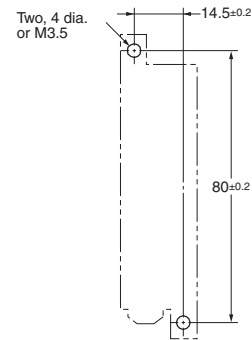
Note 1: The front view shows with the finger cover removed.
Note 2: Only the -ND Sockets have LED indicators (orange)

Terminal Arrangement/Internal Connection Diagram (Top View)
G7SA-3A1B Mounted G7SA-2A2B Mounted

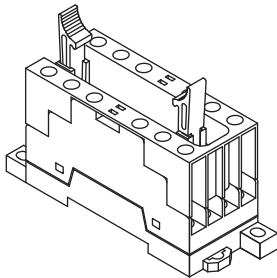


* This display circuit is available only for "-ND" models.
Note: Terminals 23-24, 33-34, and 43-44 are normally open.
 Terminals 11-12 and 21-22 are normally closed.

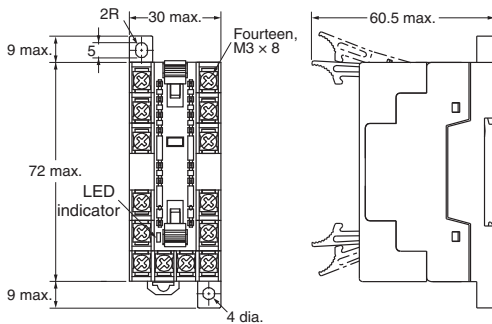
Mounting Hole Placement Diagram (Top View)



Screw terminals 6 poles
P7SA-14F, P7SA-14F-ND

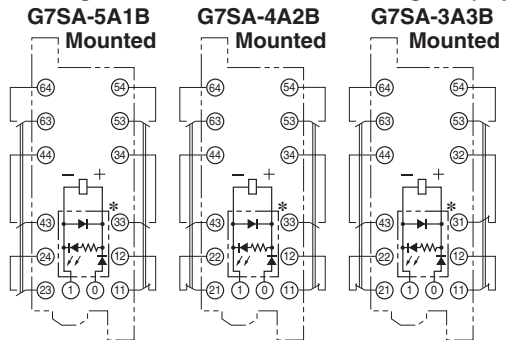


The above figure shows with the finger cover mounted.



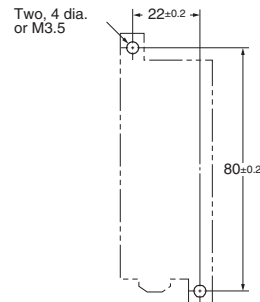
Note 1: The front view shows with the finger cover removed.
Note 2: Only the -ND Sockets have LED indicators (orange).

Terminal Arrangement/Internal Connection Diagram (Top View)



* This display circuit is available only for "-ND" models.
Note: Terminals 23-24, 33-34, 43-44, 53-54, and 63-64 are normally open. Terminals 11-12, 21-22, and 31-32 are normally closed.

Mounting Hole Placement Diagram (Top View)



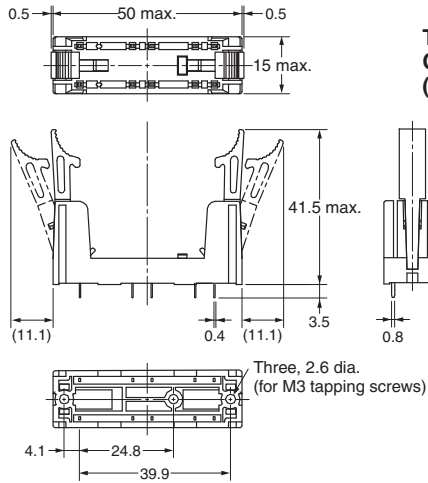
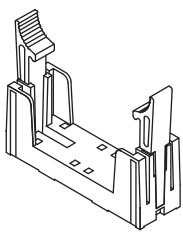
Accessories (Order Separately)

Parts for DIN Track Mounting

Refer to your OMRON website for details about PFP-□.

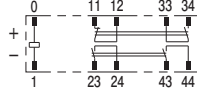
G7SA

Back-mounting Sockets (for PCB) PCB terminals 4 poles P7SA-10P

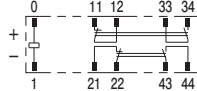


Terminal Arrangement/Internal Connection Diagram (Bottom View)

G7SA-3A1B Mounted

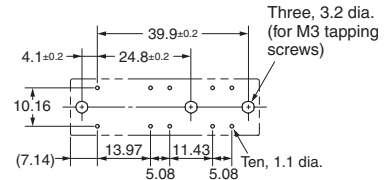


G7SA-2A2B Mounted



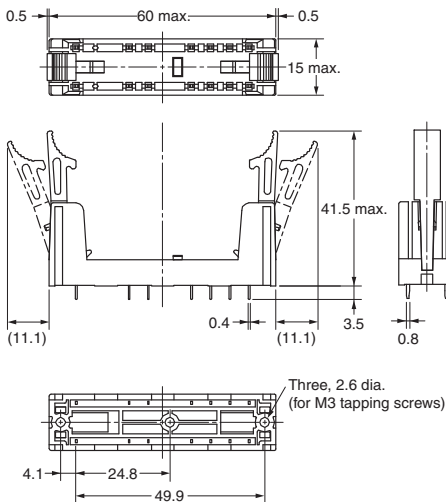
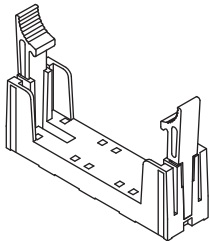
Mounting Hole Placement (Bottom View)

(±0.1 tolerance)



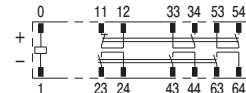
Note: Terminals 23-24, 33-34, and 43-44 are normally open. Terminals 11-12 and 21-22 are normally closed.

PCB terminals 6 poles P7SA-14P

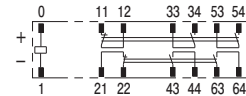


Terminal Arrangement/Internal Connection Diagram (Bottom View)

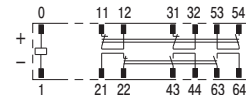
G7SA-5A1B Mounted



G7SA-4A2B Mounted

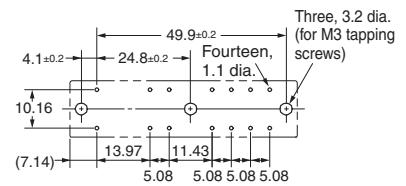


G7SA-3A3B Mounted



Mounting Hole Placement (Bottom View)

(±0.1 tolerance)



Note: Terminals 23-24, 33-34, 43-44, 53-54, and 63-64 are normally open. Terminals 11-12, 21-22, and 31-32 are normally closed.

Certified Standards

Relays with forcibly guided contacts

G7SA

- EN Standards, VDE Certified
 - EN 61810-1 (Electromechanical non-specified time all-or-nothing relays)
 - EN 50205 (Relays with forcibly guided (linked) contacts)
- UL standard UL508 Industrial Control Devices
- CSA standard CSA C22.2 No. 14 Industrial Control Devices
- South Korea S-mark certified (Rated voltage 24VDC only)
 - KS C IEC 61810-1
 - EN 50205
- CQC GB/T 21711.1

Sockets

Screw terminals / PCB terminals

P7SA-□F-ND / P7SA-□P

- EN Standards, VDE Certified
 - EN 61984
- UL standard UL508 Industrial Control Devices
- CSA standard CSA C22.2 No. 14 Industrial Control Devices

Push-In Plus terminals

P7SA-□F-ND-PU

- EN Standards, TÜV Certified
 - EN 61984
- UL standard UL 508 Industrial Control Devices
- CSA standard CSA C22.2 No.14 Industrial Control Devices

Forcibly Guided Contacts (from EN 50205)

If an NO contact becomes welded, all NC contacts will maintain a minimum distance of 0.5 mm when the coil is not energized. Likewise if an NC contact becomes welded, all NO contacts will maintain a minimum distance of 0.5 mm when the coil is energized.

Safety Precautions

Be sure to read the *Common Precautions for All Relays with Forcibly Guided Contacts* at the following URL: <http://www.ia.omron.com/>.

Warning Indications

Precautions for Safe Use	Supplementary comments on what to do or avoid doing to use the product safely.
Precautions for Correct Use	Supplementary comments on what to do or avoid doing to prevent failure to operate, malfunction, or undesirable effects on product performance.

Precautions for Safe Use

Push-In Plus Terminal Sockets (P7SA-□F-ND-PU)

- Do not attempt to wire anything to the release holes.
- When you insert a flat-blade screwdriver into a release hole, do not tilt or twist the screwdriver. The terminal block may be damaged.
- Insert a screwdriver into the release holes at an angle. The terminal block may be damaged if the screwdriver is inserted straight in.
- Do not allow the flat-blade screwdriver to fall when you are holding it in a release hole.
- Do not bend a wire past its natural bending radius or pull on it with excessive force. Doing so may break the wires.
- Do not insert more than one wire into each terminal insertion hole.
- To prevent wire materials from smoking or igniting, use the wiring materials given in the following table.

Recommended wires	Stripping length	
	Ferrules used	Ferrules not used
0.5 to 1.5 mm ² / AWG 20 to 16	10 mm	8 mm

- Insert a flat-blade screwdriver all the way to the bottom of the release hole. If the flat-blade screwdriver is not inserted correctly, the wire may not be connected correctly.
- When crossover wiring with wires or short bars, make sure not to insert them in the wrong position. It may cause a short circuit, a malfunction, or a failure.

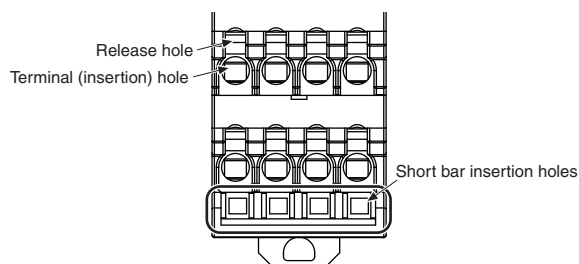
Precautions for Correct Use

Wiring

- The coil terminals have polarity (+, -). Inverting the polarity when wiring the terminals will cause the unit not to operate.
- The release time and the response time of the G7SA will be longer when using the P7SA-□F-ND(-PU) because it has a built-in diode to absorb coil surge. Because of that, confirm operation under actual conditions before using the P7SA-□F-ND(-PU).

<Using with P7SA-□F-ND-PU Push-In Plus terminal sockets>

- If there is lubrication, such as oil, on the tip of the flat-blade screwdriver, the flat-blade screwdriver may fall and possibly injure a worker.
- Do not insert short bar in the hole for wire or screw driver, it may cause the result of failure of pull out. If insert short bar in the hole for wire or screw driver and try to pull out, it may cause damage for short bar or socket.



Screw Terminal Sockets (P7SA-□F(-ND))

- Use one of the following wires to connect to the P7SA-□F(-ND).
 - Stranded wire: 0.75 to 1.5 mm²
 - Solid wire: 1.0 to 1.5 mm²
- Tighten the screws of the P7SA-□F(-ND) to a torque of 0.78 to 0.98 N·m. Tighten firmly so as not to have any loose wires.

Cleaning

The G7SA is not of enclosed construction. Therefore, do not wash the G7SA with water or detergent.

Mounting

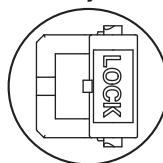
The G7SA can be installed in any direction.

Mounting and Removing the Relays

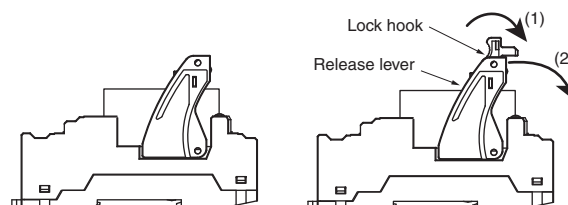
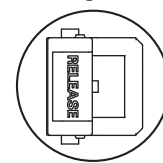
<Using with P7SA-□F-ND-PU Push-In Plus terminal sockets>

- After mounting the relay, make sure to lock the lock hook. If not, the relay may become loose upon vibration or impact.
- When removing the relay, (1) unlock the lock hook on the release side, (2) then press the release lever.
- You can release the locked block easily by inserting a tip of a flat screwdriver into the square hole.

With the relay mounted



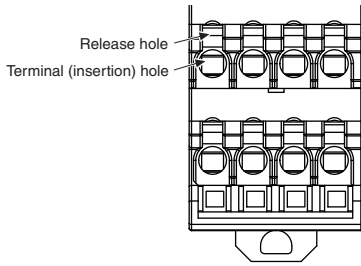
Removing the relay



Push-In Plus Terminal Sockets (P7SA-□F-ND-PU)

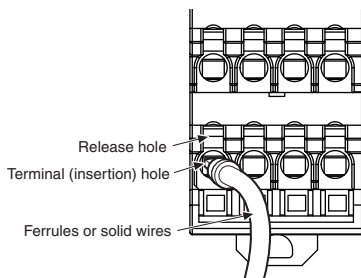
1. Connecting Wires to the Push-In Plus Terminal Block

Part Names of the Terminal Block



Connecting Wires with Ferrules and Solid Wires

Insert the solid wire or ferrule straight into the terminal block until the end strikes the terminal block.

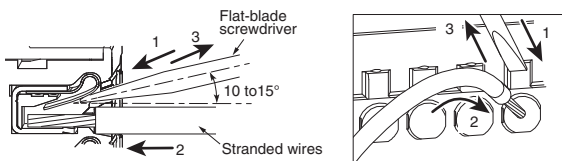


- If a wire is difficult to connect because it is too thin, use a flat-blade screwdriver in the same way as when connecting stranded wire.

Connecting Stranded Wires

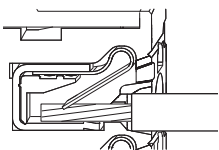
Use the following procedure to connect the wires to the terminal block.

1. Hold a flat-blade screwdriver at an angle and insert it into the release hole.
The angle should be between 10° and 15°. If the flat-blade screwdriver is inserted correctly, you will feel the spring in the release hole.
2. With the flat-blade screwdriver still inserted into the release hole, insert the wire into the terminal hole until the end strikes the terminal block.
3. Remove the flat-blade screwdriver from the release hole.



Checking Connections

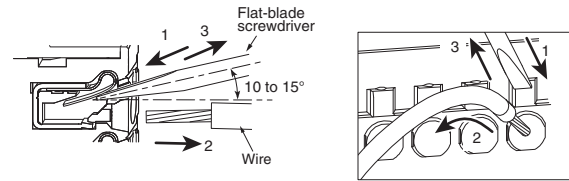
- After the insertion, pull gently on the wire to make sure that it will not come off and the wire is securely fastened to the terminal block.
- To prevent short circuits, insert the stripped part of a stranded or solid wire, or the conductor part of a ferrule until it is hidden inside the terminal insertion hole. (See the following diagram.)



2. Removing Wires from the Push-In Plus Terminal Block

Use the following procedure to remove wires from the terminal block. The same method is used to remove stranded wires, solid wires, and ferrules.

1. Hold a flat-blade screwdriver at an angle and insert it into the release hole.
2. With the flat-blade screwdriver still inserted into the release hole, remove the wire from the terminal insertion hole.
3. Remove the flat-blade screwdriver from the release hole.

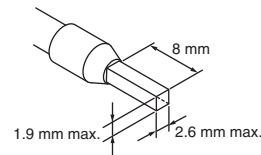


3. Recommended Ferrules and Crimp Tools

Recommended ferrules

Applicable wire		Ferrule Conductor length (mm)	Recommended ferrules		
(mm ²)	(AWG)		Phoenix Contact product	Weidmuller product	Wago product
0.5	20	8	AI0.5-8	H0.5/14	FE-0.5-8N-WH
0.75	18	8	AI0.75-8	H0.75/14	FE-0.75-8N-GY
1/1.25	18/17	8	AI1-8	H1.0/14	FE-1.0-8N-RD
1.25/1.5	17/16	8	AI1.5-8	H1.5/14	FE-1.5-8N-BK
Recommended crimp tool			CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S	PZ6 roto	Variocrimp4

- Note:**
1. Make sure that the outer diameter of the wire coating is smaller than the inner diameter of the insulation sleeve of the recommended ferrule.
 2. Make sure that the ferrule processing dimensions conform to the following figures.

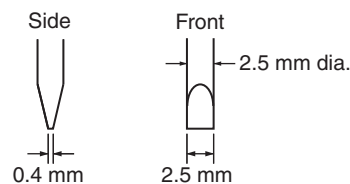


Recommended Flat-blade Screwdriver

Use a flat-blade screwdriver to connect and remove wires.

Use the following flat-blade screwdriver.

The following table shows manufacturers and models as of 2015/Dec.



Model	Manufacturer
SZS 0.4×2.5 SZF 0-0.4×2.5 *	Phoenix Contact
ESD0.40×2.5	Wera
0.4×2.5×75 302	Wiha
AEF.2.5×75	Facom
210-719	Wago
SDI 0.4×2.5×75	Weidmuller

* OMRON's exclusive purchase model XW4Z-00B is available to order as SZF 0-0.4 × 2.5 (manufactured by Phoenix Contact).

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