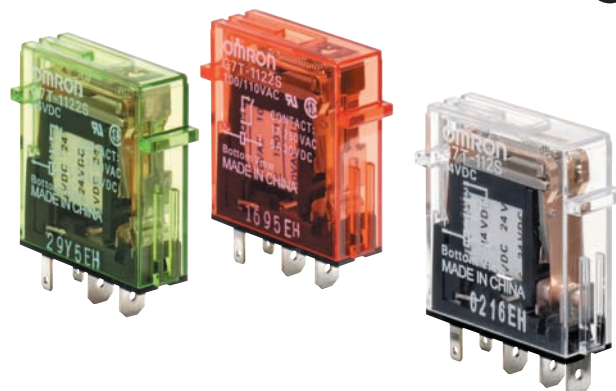


Slim-styled I/O Relay Saves Space in Panel

- SPST-NO, SPST-NC, and SPDT contact forms available for output (SPST-NO only for input).
- Ultra-slim housing measuring 29 (W) x 10 (D) x 32 (H) mm.
- All Output Relays provide a long endurance (1,000,000 operations at 5 A), while all Input Relays provide microswitching power (100 μ A at 1 V).
- Approved by UL and CSA standards.



Refer to *Safety Precautions for All Relays*.



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

Ordering Information

When your order, specify the rated voltage.

Classification		Model	Rated voltage
Input (bifurcated contact)	SPST-NO	G7T-1122S (see note 2)	12 VDC
			24 VDC
			100/110 VAC
			200/220 VAC
Output (single contact)	SPST-NO	G7T-1112S (see note 2)	12 VDC
			24 VDC
	SPST-NC	G7T-1012S	12 VDC
			24 VDC
	SPDT	G7T-112S	12 VDC
			24 VDC

Note: 1. When ordering, add the rated voltage to the model number. Rated voltages are given in the coil ratings table in *Specifications*.

Example: G7T-112S 12 VDC

Rated voltage

- The G7T-1122S and G7T-1112S are approved by UL and CSA. Contact your OMRON representative for the coil ratings of other models. The G7T-112S cannot be used in place of the G7TC. The G7T-112S can only be used with the P7TF-05 Socket.
- “Input” and “output” indicate the I/O relationship to a PLC. Input Relays are mainly suitable for input signals to a PLC or other device. Output Relays are mainly suitable to switching loads that receive output signals from a PLC or other device. The Input and Output Relays have different switching performances. Select a suitable Relay for the application.

Model Number Legend

G7T-□□□□S
1 2 3 4 5

1. No. of Contact Poles

2. Contact Form

No indication: Transfer contact

Number: Number of NO contacts

3. Contact Mechanism

1: Single contact

2: Bifurcated contact

4. Enclosure Construction

2: Casing

5. Terminal Type

S: Plug-in Terminal

■ Accessories

Socket

Applicable Relay	Model
All G7T I/O Relay and the G3TA models.	P7TF-05

P70 Indicator Module

Remove the transparent style strip of the Socket and mount this module. It will function as an operation indicator with surge suppression.

Model	Applicable Relay coil voltage	Remarks
For AC Relay	P70A 100/110 VAC	Surge suppressing system with varistor
	200/220 VAC	
For DC Relay	P70D 12/24 VDC	Surge suppressing system with diode

- Note:**
1. Order the Indicator Module that is suited to the Relay coil voltage.
 2. The Indicator Module for DC Relays has a multiple power supply common to 12 and 24 VDC.
 3. Input current (reference values):
 100/110 VAC: 1.14 to 1.38 mA
 200/220 VAC: 1.40 to 1.71 mA
 12/24 VDC: 4.83 to 5.90 mA

Specifications

■ Ratings

Coil Ratings (Common to Both Input and Output)

Item	Rated voltage (V)	Rated current		Coil resistance	Must operate voltage	Must release voltage	Max. voltage	Power consumption
		50 Hz	60 Hz					
AC	100/110	8.2/9 mA	7/7.7 mA	8,700 Ω	80% max. of rated value	30% min. of rated value	110% of rated value	0.7 VA
	200/220	4.1/4.5 mA	3.5/3.85 mA	33,300 Ω				
DC	12	42 mA		290 Ω	80% max. of rated value	10% min. of rated value	110% of rated value	0.5 W
	24	21 mA		1,150 Ω				
	100/110	5 mA		20,000 Ω	80% max. of rated value	10% min. of rated value	110% of rated value	0.5 W

- Note:**
1. The rated current and coil resistance values are measured at a coil temperature of 23°C. Tolerances of AC rated current are +15%, -20% and tolerances of coil resistance are ±15%.
 2. Four rated voltages or currents are available to single AC models used with the P7TF-05 Socket. Only three rated voltages or currents are available, however, when the Relay is used in place of the G7TC.
 3. The operating characteristics values are for a coil temperature of 23°C.
 4. The maximum voltage is one that is applicable to the Relay coil instantaneously at 23°C and not continuously.

Contact Ratings

Classification Item	For input		For output	
	Resistive load ($\cos\phi = 1$)	Inductive load ($L/R = 7\text{ ms}$)	Resistive load ($\cos\phi = 1$)	Inductive load ($\cos\phi = 0.4$, $L/R = 7\text{ ms}$)
Contact mechanism	Crossbar bifurcated		Single	
Contact material	AgAu-clad Ag		AgSnIn	
Rated load	1 A at 24 VDC	0.5 A at 24 VDC	5 A at 24 VDC 2 A at 220 VAC	2 A at 24 VDC 1 A at 220 VAC
Rated carry current	1 A		5 A	
Max. switching voltage	250 VAC, 125 VDC			
Max. switching current	1 A		5 A	
Failure rate (reference value)	100 μ A at 1 VDC		10 mA at 5 VDC	