Model Number Legend:

G2R □-□ □ □ □-□ □-□ □
1 2 3 4 5 6 7 8 9

1. **Relay Function**
   None: General-purpose
   K: Double-winding latching.
2. **Number of Poles**
   1: 1 pole
   2: 2 poles
3. **Contact Form**
   None: SPDT
   A: SPST-NO
4. **Contact Type**
   None: Single
   Z: Bifurcated
   3: Bifurcated crossbar
5. **Enclosure Ratings**
   None: Flux protection
   4: Plastic-sealed
6. **Terminals**
   None: Straight PCB
   S: Plug-in
   T: Quick-connect (upper bracket mounting)
7. **Classification**
   None: General-purpose
   E: High-capacity
   H: High-sensitivity
   N: LED indicator
   D: Diode
   ND: LED indicator and diode
8. **Contact Material**
   None: AgCdO
   ASI: AgSnIn
9. **Rated Coil Voltage**

■ Accessories (Order Separately)

Connecting Sockets

Number of poles	Applicable relay model	Track/surface mounting socket	Back mounting socket	
			Terminals	Model
1 pole	G2R-1-S(N)(D)(ND)	P2RF-05-E	PCB terminals	P2R-05P, P2R-057P
	G2R-13-S (G2R-1A3-S)	P2RF-05	Solder terminals	P2R-05A
2 poles	G2R-2-S(N)(D)(ND)	P2RF-08-E	PCB terminals	P2R-08P, P2R-087P
		P2RF-08	Solder terminals	P2R-08A

Note: See "*Dimensions*" for details on socket size.

Mounting Track

Applicable socket	Description	Model
Track connecting socket	Mounting track	50 cm (ℓ) x 7.3 mm (t): PFP-50N 1 m (ℓ) x 7.3 mm (t): PFP-100N 1 m (ℓ) x 16 mm (t): PFP-100N2
	End plate	PFP-M
	Spacer	PFP-S
Back connecting socket	Mounting plate	P2R-P*

*Used to mount several P2R-05A and P2R-08A connecting sockets side by side.

Specifications

■ Coil Ratings

Rated voltage		12 VAC	24 VAC	100/ (110) VAC	120 VAC	200/ (220) VAC	220 VAC	230 VAC	240 VAC
Rated current*	50 Hz	93 mA	46.5 mA	11 mA	9.3 mA	5.5 (4.0) mA	5.1 mA	4.7 (3.7) mA	4.7 mA
	60 Hz	75 mA	37.5 mA	9/ (10.6) mA	7.5 mA	4.5 (5.3) mA	4.1 mA	3.8 (3.1) mA	3.8 mA
Coil resistance*		65 Ω	260 Ω	4,600 Ω	6,500 Ω	20,200 (25,000) Ω	25,000 Ω	26,850 (30,000) Ω	30,000 Ω
Coil inductance	Armature OFF	0.19	0.81	13.34	21	51.3	57.5	62	65.5
(H) (ref. value)	Armature ON	0.39	1.55	26.84	42	102	117	124	131
Must operate voltage		80% max. of rated voltage							
Must release voltage		30% max. of rated voltage							
Max. voltage		110% of rated voltage							
Power consumption		Approx. 0.9 VA at 60 Hz (approx. 0.7 VA at 60 Hz)							

Note: 1. Rated voltage of bifurcated crossbar contact type: 100/(110) VAC, 200/(220) VAC, 230 VAC (Approx. 0.7 VA at 60 Hz)

2. Depending on the type of Relay, Some Relays do not have coil specifications. Contact your OMRON representative for more details.

Rated voltage		5 VDC	6 VDC	12 VDC	24 VDC	48 VDC	100 VDC
Rated current* (50/60 Hz)		106 mA	88.2 mA	43.6 mA	21.8 mA	11.5 mA	5.3 mA
Coil resistance*		47 Ω	68 Ω	275 Ω	1,100 Ω	4,170 Ω	18,860 Ω
Coil inductance	**Armature OFF**	0.20	0.28	1.15	4.27	13.86	67.2
(H) (ref. value)	**Armature ON**	0.39	0.55	2.29	8.55	27.71	93.2
Must operate voltage		70% min. of rated voltage					
Must release voltage		15% min. of rated voltage					
Max. voltage		110% of rated voltage					
Power consumption		Approx. 0.53 W					

Note: Rated voltage of bifurcated crossbar contact type: 12 VDC, 24 VDC

High-sensitivity Relays

Rated voltage		5 VDC	6 VDC	12 VDC	24 VDC	48 VDC
Rated current (50/60 Hz)		71.4 mA	60 mA	30 mA	15 mA	7.5 mA
Coil resistance		70 Ω	100 Ω	400 Ω	1,600 Ω	6,400 Ω
Coil inductance	**Armature OFF**	0.37	0.53	2.14	7.80	31.20
(H) (ref. value)	**Armature ON**	0.75	1.07	4.27	15.60	62.40
Must operate voltage		70% max. of rated voltage				
Must release voltage		15% max. of rated voltage				
Max. voltage		110% of rated voltage				
Power consumption		Approx. 0.36 W				

***Note:** 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of $^{+15\%}/_{-20\%}$ (AC rated current) or ±10% (DC coil resistance).

2. LEDs are used for the built-in operation indicator. For models equipped with these indications, the VAC rated current must be increased by approximately 1 mA; the VDC rated current, by approximately 4 mA.

3. Operating characteristics are measured at a coil temperature of 23°C.

Double-winding Latching Relays

Rated voltage			5 VDC	6 VDC	12 VDC	24 VDC
Set coil	**Rated current***		167 mA	138 mA	70.6 mA	34.6 mA
	Coil resistance*		30 Ω	43.5 Ω	170 Ω	694 Ω
	Coil inductance	**Armature OFF**	0.073	0.104	0.42	1.74
	(H) (ref. value)	**Armature ON**	0.146	0.208	0.83	3.43
Reset coil	**Rated current**		119 mA	100 mA	50 mA	25 mA
	Coil resistance		42 Ω	60 Ω	240 Ω	960 Ω
	Coil inductance	**Armature OFF**	0.003	0.005	0.018	0.079
	(H) (ref. value)	**Armature ON**	0.006	0.009	0.036	0.148
Must set voltage			70% of rated voltage			
Must reset voltage			70% of rated voltage			
Max. voltage			110% of rated voltage			
Power consumption			Set coil: Approx. 850 mW; Reset coil: Approx. 600 mW			

***Note:** 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%.

2. Operating characteristics are measured at a coil temperature of 23°C.