

## ■ Characteristics

Item	1 pole
Contact resistance	100 mΩ max.
Operate (set) time	20 ms max.
Release time	40 ms max.
Max. operating frequency	Mechanical: 18,000 operations/hr
	Electrical: 1,800 operations/hr (under rated load)
Insulation resistance	1,000 MΩ min. (at 500 VDC)
Dielectric strength	4,000 VAC, 50/60 Hz for 1 min between coil and contacts
	1,000 VAC, 50/60 Hz for 1 min between contacts of same polarity
Vibration resistance	Destruction: 10 to 55 Hz, 1.0 mm double amplitude
	Malfunction: 10 to 55 Hz, 1.0 mm double amplitude
Shock resistance	Destruction: 1,000 m/s <sup>2</sup> (approx. 100G)
	Malfunction: 100 m/s <sup>2</sup> (approx. 10G)
Life expectancy	Mechanical: 5,000,000 operations min.
	Electrical: 100,000 typical;
	NO 70,000 operations min.; NC 50,000 operations min.
Ambient temperature	Operating: -40°C to 55°C (with no icing or condensation)
Ambient humidity	Operating: 5% to 85%
Weight	Approx. 35 g
Overvoltage category	III
Pollution degree	2

Note: Data shown are of initial values.

## Switching Timing

Model number	Operating time (typical)	Release time (typical)
G2RV-SL7□□/5□□ DC12	5 ~ 7 ms	5 ~ 8 ms
G2RV-SL7□□/5□□ DC24	5 ~ 7 ms	5 ~ 8 ms
G2RV-SL7□□/5□□ AC/DC24	5 ~ 7 ms	17 ~ 22ms
G2RV-SL7□□/5□□ AC/DC48	5 ~ 7 ms	22 ~ 30 ms
G2RV-SL7□□/5□□ AC110	12 ~ 15 ms	22 ~ 30 ms
G2RV-SL7□□/5□□ AC230	12 ~ 15 ms	22 ~ 30 ms

## ■ Approved Standards

### UL Recognized (File No. E41643) - - Ambient Temp. = 40°C

Model	Contact form	Coil ratings	Contact ratings	Operations
G2RV-SL Series	SPDT	12 to 48 VDC 24 to 230 VAC	250 VAC 6 A (Resistive Load) 30 VDC 6 A (Resistive Load) 400 VAC 2 A (Resistive Load)	6,000

### IEC/VDE (EN 61810)

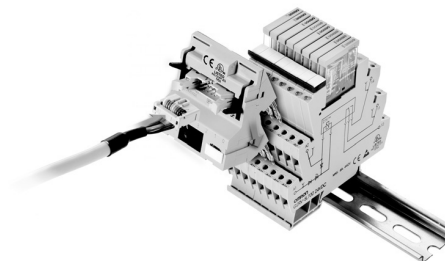
Contact form	Coil ratings	Contact ratings	Operations
1 pole	12, 24 VDC 24, 48 VAC/DC 110, 230 VAC	250 VAC 6 A (Res.) 30 VDC 6 A (Res.) 400 VAC 2 A (Res.)	50,000 50,000 6,000

# Accessories

## ■ PLC Interface (for G2RV-SL700 series only)

### List of Models

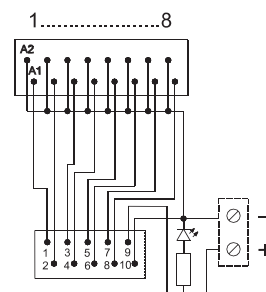
Model number	Description	Connection
P2RVC-8-O-F	For output use	Flat cable



### Specifications

Input	Rated voltage	30 VAC/VDC max.
	Current capacity	0.5 A per channel 2.0 A total current, power supply terminal
Characteristics	Ambient temperature	Operating: 0 to 55°C Storage: -20 to 85°C
	Overvoltage category	III
	Pollution degree	2

### Electrical schematic P2RVC-8-O-F



## ■ Cables for PLC Interface P2RVC-8-O-F

### P2RV-4-□□□C

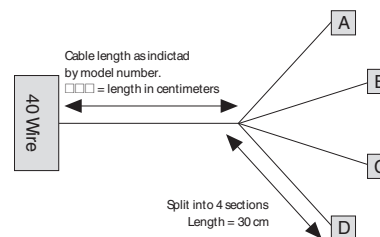
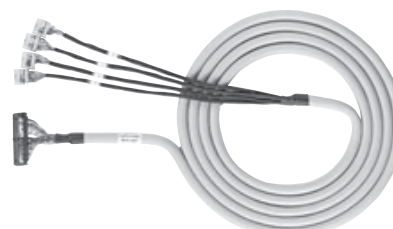
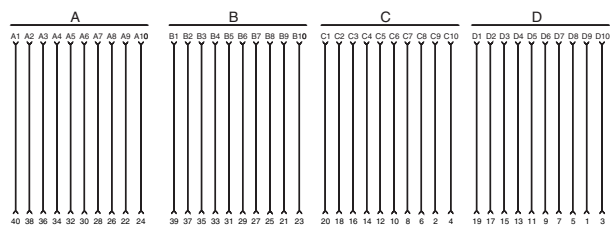
Cable to connect CJ1 to 4 x P2RVC-8-O-F

40 pole IDC mounting to Omron PLC CJ1-OD232

### List of Models

Model number	Cable length
P2RV-4-100C	1.0 m
P2RV-4-200C	2.0 m
P2RV-4-300C	3.0 m
P2RV-4-500C	5.0 m

### 4x10 pole IDC mounting to 4 x P2RVC-8-O-F



### Technical data

Control line	AWG26/0.14 mm <sup>2</sup> , tin-plated copper
Diameter cable	10.6 mm (one end splits into 4 sections: A, B, C, D)
Operating voltage	60 VDC
Continuous current per signal wire	0.5 A
Max. total current, 4 bytes, each	1.0 A
Test voltage	0.5 KV, 50 Hz, 1 min
Operating temperature range	-20°C to +50°C