

G2RV/G3RV Series Relays

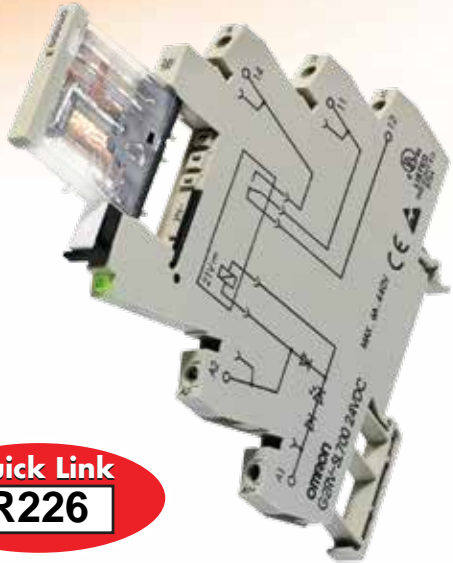
The world's most reliable slim general purpose and solid state relays



- » Large contact area & non-bendable pins guarantee secure & reliable connections
- » Ultra-slim 6mm design save space
- » LED indicator makes it easy to check operation & condition

Industrial Switching made easy

OMRON offers an industrial Switching solution that makes the installation and replacement of relays easy. OMRON's slim(6mm) industrial relay series, takes just a few steps to interface connectors securely and reliably to any PLC.

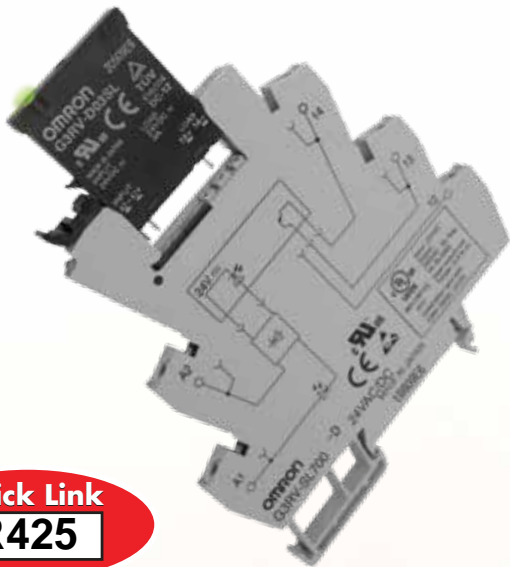


G2RV Slim (6mm) Plug-in

General Purpose Relay

The only truly industrial 6 mm plug-in relay on the market. Offering significant space and time savings without compromising on reliability.

- SPDT type 6A@250VAC
- Longer life versus average 6 mm relays
- Large surface contact area and non-bendable pins guarantee secure and reliable connections
- LED indicator and mechanical flag indicator makes it easy to check operating condition



G3RV Slim (6mm) Plug-in Solid State Relay

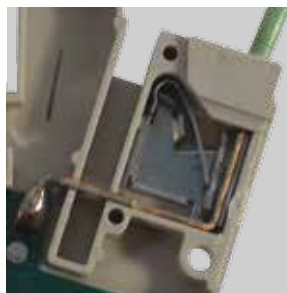
A strong, space-saving relay offering quick and easy connection to a PLC.

- 2A@264VAC and 3A@26.4VDC output
- Large surface contact area and non-bendable pins guarantee secure and reliable connections
- Zero cross switching models
- LED indicator on relay and socket makes it easy to check operating condition

2 Socket Connection Types

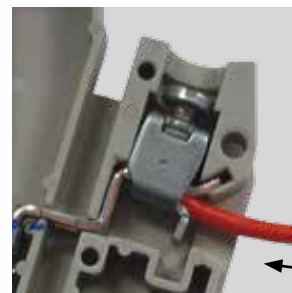
- Push-in type (500 series) for reduced wiring time

SL 500 series socket



Push-in terminal

SL 700 series socket



Screw terminal

for a broad range of applications.

Industrial (solid state) relays are commonly used in industries like Food & Beverage, for switching the various actuators on a bottling line.

Features

- Interface block (P2RVC-8-O-F) connects 8 relays to your PLC (SL700 series only)
- Spring terminal of P2RVC-8-O-F provide secure connection and has better vibration resistance
- Quick easy connection resulting in wiring time saving.
- Selectable cable length (1.0m to 5.0m)



Robust & Wide Terminals

- No bending during maintenance
- Large plug-in terminals for reliable connection

G2RV



G3RV



All terminals : 0.5 x 1.8 mm

Transparent Housing (G2RV)

- Visual inspection of the contacts

Contact status is visible



Mechanical Flag and LED Indication

- Socket LED indicator confirms input voltage condition
- Mechanical flag (G2RV) indicates actual movement of the contacts
- LED indicator (G3RV) on the relay indicates status of output condition

G2RV



G3RV



Ordering Information

RELAY / SOCKET COMBINATION

Input Voltage	Screw terminals			Push-in terminals		
	Contact Output	Solid State Output		Contact Output	Solid State Output	
		DC Output (MOS FET)	AC Output* (TRIAC)		DC Output (MOS FET)	AC Output* (TRIAC)
12VDC	G2RV-SL700 DC12(DC11)	G3RV-SL700-D DC12	G3RV-SL700-A(L) DC12	G2RV-SL500 DC12(DC11)	G3RV-SL500-D DC12	G3RV-SL500-A(L) DC12
24VDC	G2RV-SL700 DC24(DC21)	G3RV-SL700-D DC24	G3RV-SL700-A(L) DC24	G2RV-SL500 DC24(DC21)	G3RV-SL500-D DC24	G3RV-SL500-A(L) DC24
24VAC/DC	G2RV-SL700 AC/DC24	G3RV-SL700-D AC/DC24	G3RV-SL700-A(L) AC/DC24	G2RV-SL500 AC/DC24	G3RV-SL500-D AC/DC24	G3RV-SL500-A(L) AC/DC24
48VAC/DC	G2RV-SL700 AC/DC48	G3RV-SL700-D AC/DC48	G3RV-SL700-A(L) AC/DC48	G2RV-SL500 AC/DC48	G3RV-SL500-D AC/DC48	G3RV-SL500-A(L) AC/DC48
110VAC	G2RV-SL700 AC110	G3RV-SL700-D AC110	G3RV-SL700-A(L) AC110	G2RV-SL500 AC110	G3RV-SL500-D AC110	G3RV-SL500-A(L) AC110
230VAC	G2RV-SL700 AC230	G3RV-SL700-D AC230	G3RV-SL700-A(L) AC230	G2RV-SL500 AC230	G3RV-SL500-D AC230	G3RV-SL500-A(L) AC230

* G3RV AC Output A: with Zero cross function, AL: without Zero cross function

ACCESSORIES

Type	Description	Ordering Code
Cross bar	2, 3, 4, 10, 20 poles, 3 color (Red, Blue, Black)	P2RVM-□□□□
PLC interface	Connect 8 relays and PLC output	P2RVC-8-O-F
Cable for P2RVC-8-O-F	Single sided 10 pole IDC connector, 1, 2, 3, 5 m	P2RV-A□□□C
Plastic Label	120 labels / 1 sheet, Mounting on socket	R99-15 for G2RV
Label (Stickers)	484 labels / 1 sheet	R99-16 for G2RV

G2RV Series Specifications	
Contact Form	SPDT
Rate Load (resistive)	6A@250VAC, 6A@30VDC
Max. Switching Voltage	400VAC, 125VDC
Max. Switching Current	6A
Max. Switching Power	1,500VA / 180W
Min. Permissible Load	10mA@5VDC
Mechanical Life	5 Million Operations
Electric Life (Rated Load)	100k operations typical
Ambient Temperature	-40 to 55°C
Approved Standards	cULus, VDE, CE Relay and Socket combinations are cULus listed

G3RV Series Specifications		
	G3RV-□□□□-A(L)	G3RV-□□□□-D
Load Voltage Range	75 to 264VAC (50/60 Hz)	3 to 26.4VDC
Load Current	0.1A to 2A	100μA to 3A
Load Capacity	400W (at 200VAC)	72W (at 24VDC)
Output ON voltage drop	1.6 V rms max.	0.9V max
Leakage Current	5 mA max.	10μA max.
Ambient Temperature	-30 to 55°C	
Approved Standards	cULus, TUV, CE Relay and Socket combinations are cULus listed	

OMRON AUTOMATION AND SAFETY • THE AMERICAS HEADQUARTERS • Schaumburg, IL USA • 847.843.7900 • 800.556.6766 • www.omron247.com

OMRON CANADA, INC. • HEAD OFFICE
Toronto, ON, Canada • 416.286.6465 • 866.986.6766 • www.omron247.com

OMRON ELECTRONICS DE MEXICO • HEAD OFFICE
México DF • 52.55.59.01.43.00 • 001.800.556.6766 • mela@omron.com

OMRON ELECTRONICS DE MEXICO • SALES OFFICE
Apodaca, N.L. • 52.81.11.56.99.20 • 001.800.556.6766 • mela@omron.com

OMRON ELETRÔNICA DO BRASIL LTDA • HEAD OFFICE
São Paulo, SP, Brasil • 55.11.2101.6300 • www.omron.com.br

OMRON ARGENTINA • SALES OFFICE
Cono Sur • 54.11.4783.5300

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OTHER OMRON LATIN AMERICA SALES
54.11.4783.5300

OMRON EUROPE B.V. • Wegalaan 67-69, NL-2132 JD, Hoofddorp, The Netherlands. • Tel: +31 (0) 23 568 13 00 • Fax: +31 (0) 23 568 13 88 • www.industrial.omron.eu