OMRON

PRODUCT NEWS

Product Discontinuation Notices

Issue Date
January 21, 2025

20250114_DOP_00004

Product Discontinuation	Recommended Replacement
Name of Category	Name of Category
Part of G2R series	**G2R series** **G2RL series** **G5RL series**

[Final order entry date]

The end of March, 2026

[Date of The Last Shipping]

The end of June, 2026

[Caution on recommended replacement]

In some types, external dimensions/mounting dimensions, coil ratings, rated performance, and operating characteristics are subject change.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimen-sions	Wire connection	Mounting Dimensions	Charac-teristics	Operation ratings	Operation methods
G2R series	**	**	**	**	*	**	**
G2RL series	*	**	**	**	*	*	**
G5RL series	*	**	**	**	*	*	**

** : Compatible
* : The change is a little/Almost compatible
-- : Not compatible
- : No corresponding specification

[Product Discontinuation and recommended replacement]

Product Discontinuation	Recommended replacement
G2R-1 AC100	G2R-1 AC100/(110)
G2R-1 AC110	G2R-1 AC100/(110)
G2R-1 AC12	G2R-1 DC12
G2R-1 AC120	G2R-2 AC100/(110)
G2R-1 AC220	G2R-1 AC200/(220)
G2R-1 AC24	G5RL-1-E AC24
G2R-1 AC240	G5RL-1-E AC230/240
G2R-1 AC48	G2RL-1 DC48
G2R-1 AC50	G2RL-1 DC48
G2R-1 AC6	G2R-1 DC5
G2R-1 DC110	G2R-1 DC100
G2R-1 DC15	G2R-1 DC12
G2R-1 DC18	G2RL-1-E DC18
G2R-1 DC20	G2R-1 DC24
G2R-1 DC3	G2R-1 DC5
G2R-1 DC36	G2RL-1 DC48
G2R-1 DC48	G2RL-2 DC48

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Product Discontinuation	Recommended replacement
G2R-1 DC6	G2RL-1 DC6
G2R-1 DC60	G2RL-1 DC48
G2R-1 DC9	G2RL-1 DC9
G2R-1-AP DC24	G2R-1 DC24
G2R-1-AP3 AC120	G2R-1 AC100/(110)
G2R-1-AP3 DC12	G2R-1 DC12
G2R-1-ASI DC12	G2R-1 DC12
G2R-1-ASI DC24	G2R-1 DC24
G2R-1-E AC100	G2R-1-E AC100/(110)
G2R-1-E AC110	G2R-1A DC100
G2R-1-E AC12	G2R-1-E DC12
G2R-1-E AC120	G2R-1-E AC100/(110)
G2R-1-E AC220	G2R-1-E AC200/(220)
G2R-1-E AC230	G5RL-1-E AC230/240
G2R-1-E AC24	G5RL-1-E AC24
G2R-1-E AC240	G2R-1-E AC200/(220)
G2R-1-E AC48	G2RL-1-E DC48
G2R-1-E DC100	G2R-1 DC100
G2R-1-E DC110	G2R-1 DC100
G2R-1-E DC48	G2RL-1-E DC48
G2R-1-E DC6	G2RL-1-E DC6
G2R-1-E DC60	G2RL-1-E DC48
G2R-1-E DC9	G2RL-1-E DC9
G2R-1-E-ASI DC12	G2R-1-E DC12
G2R-1-E-ASI DC18	G2RL-1-E DC18
G2R-1-E-ASI DC20	G2R-1-E DC24
G2R-1-E-ASI DC24	G2R-1-E DC24
G2R-1-E-ASI DC48	G5LE-1-E DC48
G2R-1-E-ASI DC5	G2R-1-E DC5
G2R-1-E-ASI DC80	G2RL-1-E DC48
G2R-1-E-ASI-11 DC24	G2R-1-E DC24
G2R-1-E-ASI-T130 DC12	G2R-1-E DC12
G2R-1-E-ASI-TV8 DC5	G5RL-1-E-HR DC5
G2R-1-E-H DC12	G2R-1-E DC12
G2R-1-E-H DC24	G2R-1-E DC24
G2R-1-E-T130 AC120	G2R-1-E AC100/(110)
G2R-1-E-T130 DC12	G2R-1-E DC12
G2R-1-E-T130 DC24	G2R-1-E DC24
G2R-1-E-T130 DC5	G2R-1-E DC5
G2R-1-E-T130 DC9	G2RL-1-E DC9
G2R-1-E-TV8-ASI DC12	G2R-1-E DC12
G2R-1-EZ DC12	G2R-1 DC12
G2R-1-EZ DC24	G2R-1 DC24
G2R-1-EZ DC48	G2RL-1 DC48
G2R-1-H DC12	G2RL-1 DC12
G2R-1-H DC24	G2RL-1 DC24
G2R-1-H DC3	G2RL-1 DC5
G2R-1-H DC48	G2RL-1 DC48
G2R-1-H DC5	G2R-1 DC5

Product Discontinuation	Recommended replacement
G2R-1-H DC6	G2RL-1 DC6
G2R-1-H DC9	G2RL-1 DC9
G2R-1-H-T130 DC12	G2R-1 DC12
G2R-1-H2 DC9	G2RL-1 DC9
G2R-1-SKVD AC100/(110)	G2R-1 AC100/(110)
G2R-1-T130 AC230	G2R-1 AC200/(220)
G2R-1-T130 DC12	G2R-1 DC12
G2R-1-T130 DC24	G2R-1 DC24
G2R-1-TV8-ASI DC12	G2R-1 DC12
G2R-1-Z DC100	G2R-1 DC100
G2R-1-Z DC12	G2R-1 DC12
G2R-1-Z DC24	G2R-1 DC24
G2R-1-Z DC48	G2RL-1 DC48
G2R-1-Z DC5	G2R-1 DC5
G2R-14 AC110	G2R-14 AC100/(110)
G2R-14 AC12	G2R-14 DC12
G2R-14 AC120	G2R-14 AC100/(110)
G2R-14 AC220	G2R-14 AC200/(220)
G2R-14 AC230	G2R-14 AC200/(220)
G2R-14 AC240	G2R-14 AC200/(220)
G2R-14 DC110	G2R-14 DC100
G2R-14 DC18	G2RL-14 DC18
G2R-14 DC48	G2RL-14 DC48
G2R-14 DC6	G2RL-14 DC6
G2R-14 DC9	G2RL-14 DC9
G2R-14-ASI DC24	G2R-14 DC24
G2R-14-H DC12	G2RL-14 DC12
G2R-14-H DC24	G2RL-14 DC24
G2R-14-H DC48	G2RL-14 DC48
G2R-14-H DC5	G2RL-14 DC5
G2R-14-H DC6	G2RL-14 DC6
G2R-14-H DC9	G2RL-14 DC9
G2R-14-T130 DC12	G2R-14 DC12
G2R-14-T130 DC24	G2R-14 DC24
G2R-14-T130 DC36	G2RL-14 DC48
G2R-14-U AC100/(110)	G2R-14 AC100/(110)
G2R-14-U AC200/(220)	G2R-14 AC200/(220)
G2R-14-U DC12	G2R-14 DC12
G2R-14-U DC24	G2R-14 DC24
G2R-14-U DC48	G2RL-14 DC48
G2R-14-U DC5	G2R-1A4 DC5
G2R-14-Z DC100	G2R-14 DC100
G2R-14-Z DC12	G2R-14 DC12
G2R-14-Z DC24	G2R-14 DC24
G2R-14-Z DC48	G2RL-14 DC48
G2R-14-Z DC5	G2R-14 DC5
G2R-1A AC110	G2R-1A AC100/(110)
G2R-1A AC12	G2R-1A DC12
G2R-1A AC120	G2R-1A AC100/(110)

Product Discontinuation	Recommended replacement
G2R-1A AC220	G2R-1A AC200/(220)
G2R-1A AC230	G2R-1A AC200/(220)
G2R-1A AC24	G5RL-1-E AC24
G2R-1A AC240	G2R-1A AC200/(220)
G2R-1A DC110	G2R-1A DC100
G2R-1A DC18	G2RL-1A DC18
G2R-1A DC20	G2R-1A DC24
G2R-1A DC36	G2RL-1A DC48
G2R-1A DC48	G2RL-2 DC48
G2R-1A DC6	G2RL-1A DC6
G2R-1A DC60	G2RL-1A DC48
G2R-1A DC9	G2RL-1A-E DC9
G2R-1A-ASI DC12	G2R-1A DC12
G2R-1A-ASI DC24	G2R-1A DC24
G2R-1A-ASI DC5	G2R-1A DC5
G2R-1A-E (ST) DC12	G2R-1A-E DC12
G2R-1A-E AC110	G2R-1A-E AC100/(110)
G2R-1A-E AC12	G2R-1A-E DC12
G2R-1A-E AC120	G2R-1A-E AC100/(110)
G2R-1A-E AC220	G2R-1A-E AC200/(220)
G2R-1A-E AC230	G2R-1A-E AC200/(220)
G2R-1A-E AC24	G5RL-1-E AC24
G2R-1A-E AC240	G2R-1A-E AC200/(220)
G2R-1A-E AC48	G2RL-1A-E DC48
G2R-1A-E DC100	G2R-1A DC100
G2R-1A-E DC110	G2R-1A DC100
G2R-1A-E DC18	G2RL-1A-E DC18
G2R-1A-E DC36	G2RL-1A-E DC48
G2R-1A-E DC48	G2RL-1A-E DC48
G2R-1A-E DC6	G2RL-1A-E DC6
G2R-1A-E DC9	G2RL-1A-E DC9
G2R-1A-E-ASI DC12	G2R-1A-E DC12
G2R-1A-E-ASI DC24	G2R-1A-E DC24
G2R-1A-E-ASI DC48	G2RL-1A-E DC48
G2R-1A-E-ASI DC5	G2R-1A-E DC5
G2R-1A-E-ASI-T130 DC12	G2R-1A-E DC12
G2R-1A-E-ASI-T130 DC24	G2R-1A-E DC24
G2R-1A-E-SKVD-T130FR DC24	G2R-1A-E DC24
G2R-1A-E-T130 DC12	G2R-1A-E DC12
G2R-1A-E-T130 DC18	G2RL-1A-E DC18
G2R-1A-E-T130 DC24	G2R-1A-E DC24
G2R-1A-E-TV8-ASI DC12	G5RL-1A-E-TV8 DC12
G2R-1A-E-TV8-ASI DC24	G5RL-1A-E-TV8 DC24
G2R-1A-E-TV8-ASI DC48	G2RL-1A-E DC48
G2R-1A-E-TV8-ASI DC5	G5RL-1A-E-TV8 DC5
G2R-1A-EZ DC100	G2R-1A DC100
G2R-1A-EZ DC12	G2R-1A DC12
G2R-1A-EZ DC24	G2R-1A DC24
G2R-1A-EZ DC5	G2R-1A DC5

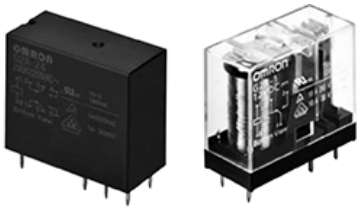
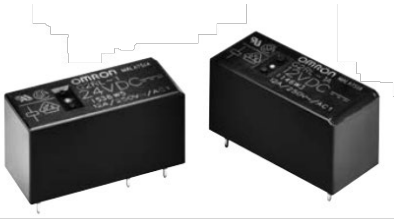
Product Discontinuation	Recommended replacement
G2R-1A-H DC12	G2R-1A DC12
G2R-1A-H DC24	G2R-1A DC24
G2R-1A-H DC36	G2RL-1A DC48
G2R-1A-H DC48	G2RL-1A DC48
G2R-1A-H DC5	G2RL-1A DC5
G2R-1A-H DC6	G2RL-1A DC6
G2R-1A-H DC60	G2RL-1A DC48
G2R-1A-H DC9	G2RL-1A-E DC9
G2R-1A-H-T130 DC12	G2R-1A DC12
G2R-1A-SKVD DC5	G2RL-1A DC5
G2R-1A-T130 AC230	G2R-1A AC200/(220)
G2R-1A-T130 DC12	G2R-1A DC12
G2R-1A-T130 DC24	G2R-1A DC24
G2R-1A-T130 DC48	G2RL-1A DC48
G2R-1A-TV8-ASI DC12	G2R-1A DC12
G2R-1A-TV8-ASI DC24	G5RL-1A-TV8 DC24
G2R-1A-TV8-ASI DC48	G2RL-1A-E DC48
G2R-1A-TV8-ASI DC5	G5RL-1A-TV8 DC5
G2R-1A-Z DC100	G2R-1A DC100
G2R-1A-Z DC12	G2R-1A DC12
G2R-1A-Z DC24	G2R-1A DC24
G2R-1A-Z DC5	G2R-1A DC5
G2R-1A4 AC12	G2R-1A4 DC12
G2R-1A4 AC120	G2R-1A4 AC100/(110)
G2R-1A4 AC220	G2R-1A4 AC200/(220)
G2R-1A4 AC230	G2R-1A4 AC200/(220)
G2R-1A4 AC24	G2R-1A4 DC24
G2R-1A4 AC240	G2R-1A4 AC200/(220)
G2R-1A4 DC18	G2RL-1A4-E DC18
G2R-1A4 DC48	G2RL-1A4 DC48
G2R-1A4 DC6	G2RL-1A4 DC6
G2R-1A4 DC8	G2R-1A4 DC12
G2R-1A4 DC9	G2RL-1A4 DC9
G2R-1A4-ASI DC24	G2R-1A4 DC24
G2R-1A4-H DC12	G2R-1A4 DC12
G2R-1A4-H DC24	G2R-1A4 DC24
G2R-1A4-H DC48	G2RL-1A4 DC48
G2R-1A4-H DC5	G2RL-1A4 DC5
G2R-1A4-H DC6	G2RL-1A4 DC6
G2R-1A4-U AC100/(110)	G2R-1A4 AC100/(110)
G2R-1A4-U AC12	G2R-2A4 DC12
G2R-1A4-U AC200/(220)	G2R-1A4 AC200/(220)
G2R-1A4-U AC24	G2R-1A4 DC24
G2R-1A4-U DC12	G2R-1A4 DC12
G2R-1A4-U DC24	G2R-1A4 DC24
G2R-1A4-U DC48	G2RL-1A4 DC48
G2R-1A4-U DC5	G2R-1-E DC5
G2R-1A4-Z DC100	G2R-1A4 DC100
G2R-1A4-Z DC12	G2R-1A4 DC12

Product Discontinuation	Recommended replacement
G2R-1A4-Z DC48	G2RL-1A4 DC48
G2R-1A4-Z DC5	G2R-1A4 DC5
G2R-1AZ DC100	G2R-1A DC100
G2R-1AZ DC12	G2R-1A DC12
G2R-1AZ DC24	G2R-1A DC24
G2R-1AZ DC48	G2RL-1A DC48
G2R-1AZ4 DC100	G2R-1A4 DC100
G2R-1AZ4 DC12	G2R-1A4 DC12
G2R-1AZ4 DC24	G2R-1A4 DC24
G2R-1AZ4 DC48	G2RL-1A4 DC48
G2R-1AZ4 DC5	G2R-1A4 DC5
G2R-1B-E DC12	G2R-1-E DC12
G2R-1Z DC100	G2R-1 DC100
G2R-1Z DC12	G2R-1 DC12
G2R-1Z DC24	G2R-1 DC24
G2R-1Z DC48	G2RL-1 DC48
G2R-1Z DC5	G2R-1 DC5
G2R-1Z DC6	G2RL-1 DC6
G2R-1Z4 DC100	G2R-1A4 DC100
G2R-1Z4 DC12	G2R-14 DC12
G2R-1Z4 DC24	G2R-14 DC24
G2R-1Z4 DC48	G2RL-14 DC48
G2R-1Z4 DC5	G2R-14 DC5
G2R-1Z4 DC6	G2RL-14 DC6
G2R-2 AC110	G2R-2 AC100/(110)
G2R-2 AC12	G2R-2 DC12
G2R-2 AC120	G2R-2 AC100/(110)
G2R-2 AC220	G2R-2 AC200/(220)
G2R-2 AC24	G2R-2 DC24
G2R-2 AC240	G2R-2 AC200/(220)
G2R-2 AC6	G2RL-2 DC6
G2R-2 DC18	G2RL-2 DC18
G2R-2 DC4	G2RL-2 DC5
G2R-2 DC6	G2RL-2 DC6
G2R-2 DC60	G2RL-2 DC48
G2R-2 DC80	G2RL-2 DC48
G2R-2 DC9	G2RL-2 DC9
G2R-2-ASI AC100/(110)	G2R-2 AC100/(110)
G2R-2-ASI DC24	G2R-2 DC24
G2R-2-H DC12	G2RL-2 DC12
G2R-2-H DC24	G2RL-2 DC24
G2R-2-H DC48	G2RL-2 DC48
G2R-2-H DC5	G2RL-2 DC5
G2R-2-H DC6	G2RL-2 DC6
G2R-2-SKVD-ASI DC24	G2RL-2 DC24
G2R-2-T130 DC24	G2R-2 DC24
G2R-2-Z DC100	G2R-2 DC100
G2R-2-Z DC12	G2R-2 DC12
G2R-2-Z DC24	G2R-2 DC24

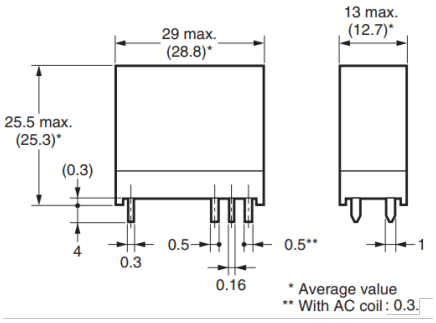
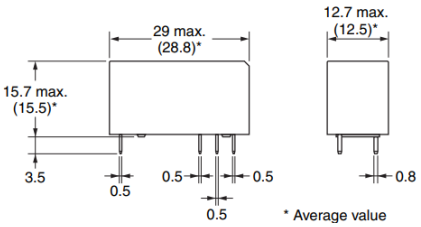
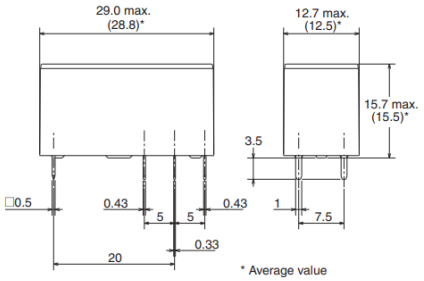
Product Discontinuation	Recommended replacement
G2R-2-Z DC48	G2RL-2 DC48
G2R-2-Z DC5	G2R-2 DC5
G2R-24 AC110	G2R-24 AC100/(110)
G2R-24 AC12	G2R-24 DC12
G2R-24 AC120	G2R-24 AC100/(110)
G2R-24 AC220	G2R-24 AC200/(220)
G2R-24 AC230	G2R-24 AC200/(220)
G2R-24 AC24	G2R-24 DC24
G2R-24 AC240	G2R-24 AC200/(220)
G2R-24 AC48	G2RL-24 DC48
G2R-24 DC110	G2R-24 DC100
G2R-24 DC15	G2R-24 DC12
G2R-24 DC24 (ST)	G2R-24 DC24
G2R-24 DC36	G2RL-24 DC48
G2R-24 DC6	G2RL-24 DC6
G2R-24 DC9	G2RL-24 DC9
G2R-24-ASI DC24	G2R-24 DC24
G2R-24-H DC24	G2RL-24 DC24
G2R-24-H DC48	G2RL-24 DC48
G2R-24-H DC5	G2RL-24 DC5
G2R-24-H DC6	G2RL-24 DC6
G2R-24-H DC60	G2RL-24 DC6
G2R-24-H DC9	G2RL-24 DC9
G2R-24-T130 DC12	G2R-24 DC12
G2R-24-U AC100/(110)	G2R-24 AC100/(110)
G2R-24-U AC200/(220)	G2R-24 AC200/(220)
G2R-24-U AC24	G2R-24 DC24
G2R-24-U DC100	G2R-24 DC100
G2R-24-U DC12	G2R-24 DC12
G2R-24-U DC24	G2R-24 DC24
G2R-24-U DC48	G2RL-24 DC48
G2R-24-U DC5	G2R-24 DC5
G2R-24-Z DC100	G2R-24 DC100
G2R-24-Z DC12	G2R-24 DC12
G2R-24-Z DC24	G2R-24 DC24
G2R-24-Z DC5	G2R-24 DC5
G2R-24-Z DC6	G2RL-24 DC6
G2R-2A AC110	G2R-2A AC100/(110)
G2R-2A AC12	G2R-2A DC12
G2R-2A AC120	G2R-2A AC100/(110)
G2R-2A AC200/(220)	G2R-2 AC200/(220)
G2R-2A AC220	G2R-2 AC200/(220)
G2R-2A AC24	G2R-2A DC24
G2R-2A AC6	G2RL-2A DC6
G2R-2A DC110	G2R-2A DC100
G2R-2A DC48	G2RL-2A DC48
G2R-2A DC6	G2RL-2A DC6
G2R-2A DC9	G2RL-2 DC9
G2R-2A-ASI DC12	G2R-2A DC12

Product Discontinuation	Recommended replacement
G2R-2A-ASI DC24	G2R-2A DC24
G2R-2A-H DC12	G2RL-2A DC12
G2R-2A-H DC24	G2R-2A DC24
G2R-2A-H DC48	G2RL-2A DC48
G2R-2A-H DC5	G2R-2A DC5
G2R-2A-H DC6	G2RL-2A DC6
G2R-2A-H DC9	G2RL-2A4 DC9
G2R-2A-Z DC100	G2R-2A DC100
G2R-2A-Z DC12	G2R-2A DC12
G2R-2A-Z DC24	G2R-2A DC24
G2R-2A-Z DC48	G2RL-2A DC48
G2R-2A-Z DC5	G2R-2A DC5
G2R-2A-Z DC6	G2RL-2A DC6
G2R-2A4 AC100/(110)	G2R-24 AC100/(110)
G2R-2A4 AC110	G2R-2A4 DC100
G2R-2A4 AC12	G2R-2A4 DC12
G2R-2A4 AC120	G2R-24 AC100/(110)
G2R-2A4 AC200/(220)	G2R-24 AC200/(220)
G2R-2A4 AC220	G2R-24 AC200/(220)
G2R-2A4 AC24	G2R-2A4 DC24
G2R-2A4 AC6	G2R-2A4 DC5
G2R-2A4 DC48	G2RL-2A4 DC48
G2R-2A4 DC6	G2RL-24 DC6
G2R-2A4 DC9	G2RL-2A4 DC9
G2R-2A4-ASI DC24	G2R-2A4 DC24
G2R-2A4-H DC12	G2R-2A4 DC12
G2R-2A4-H DC24	G2R-2A4 DC24
G2R-2A4-H DC48	G2RL-2A4 DC48
G2R-2A4-H DC5	G2RL-2A4 DC5
G2R-2A4-H DC6	G2RL-24 DC6
G2R-2A4-H DC9	G2RL-2A4 DC9
G2R-2A4-U AC100/(110)	G2R-24 AC100/(110)
G2R-2A4-U DC12	G2R-2A4 DC12
G2R-2A4-U DC24	G2R-2A4 DC24
G2R-2A4-U DC5	G2R-2A4 DC5
G2R-2A4-Z DC100	G2R-2A4 DC100
G2R-2A4-Z DC24	G2R-2A4 DC24
G2R-2A4-Z DC48	G2RL-2A4 DC48
G2RK-1 DC6	G2RK-1 DC5
G2RK-1A DC6	G2RK-1A DC5
G2RK-2 DC48	G2RK-2 DC24
G2RK-2 DC6	G2RK-2 DC5

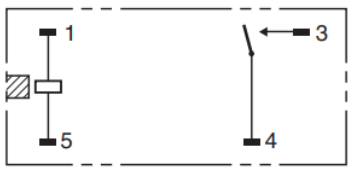
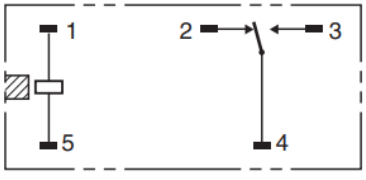
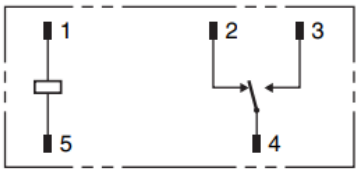
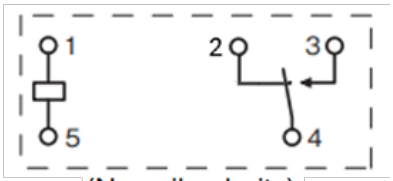
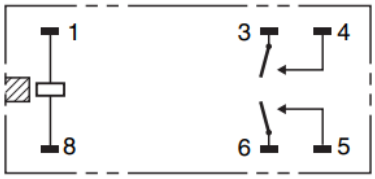
[Body color]

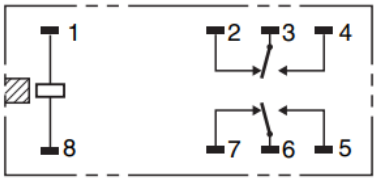
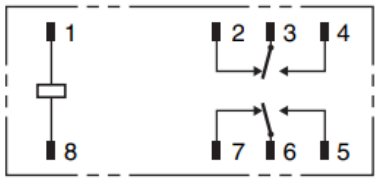
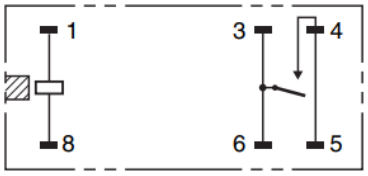
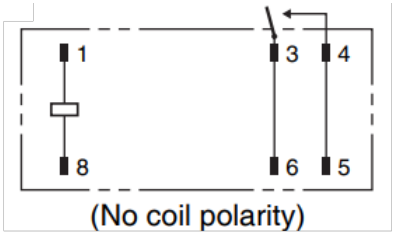
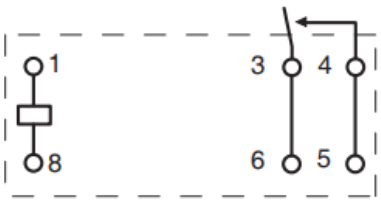
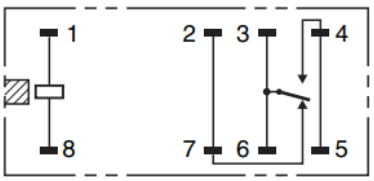
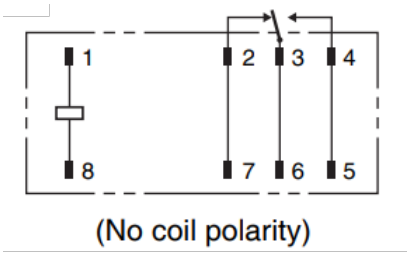
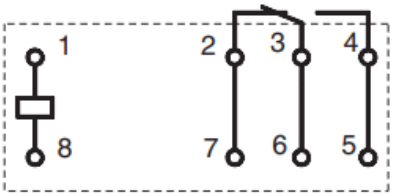
Recommendable replacement Model G2R series	Recommendable replacement Model G2RL series	Recommendable replacement Model G5RL series
Style1: Clear (Flux protection) Style2: Black (Fully sealed) Marking method: Laser 	Black (Flux protection/Fully sealed) Marking method: Laser 	Black (Flux protection) Marking method: Laser 

[Dimensions]

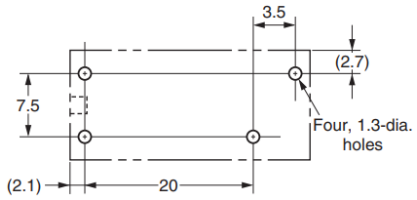
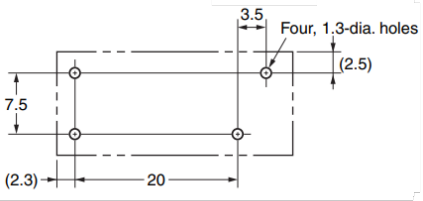
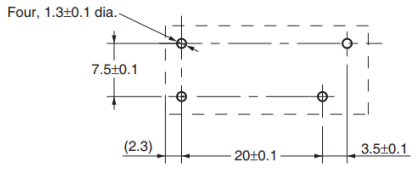
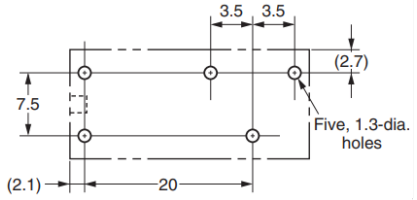
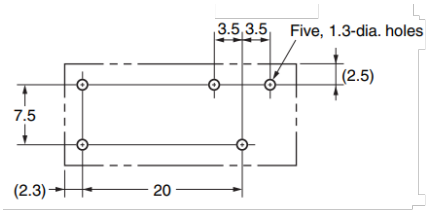
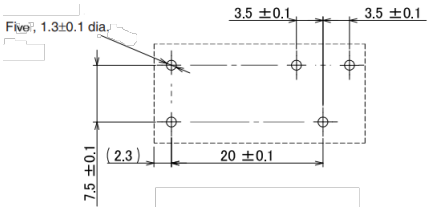
Recommendable replacement Model G2R series	Recommendable replacement Model G2RL series	Recommendable replacement Model G5RL series
		

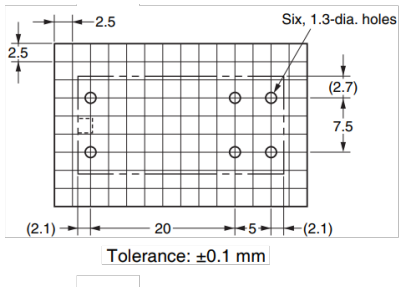
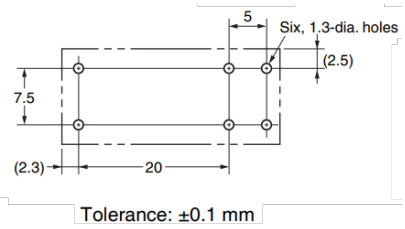
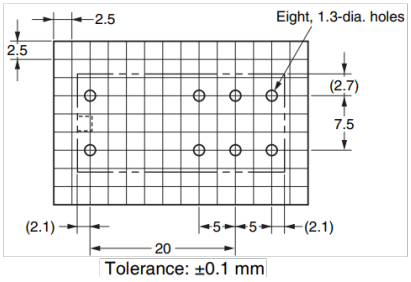
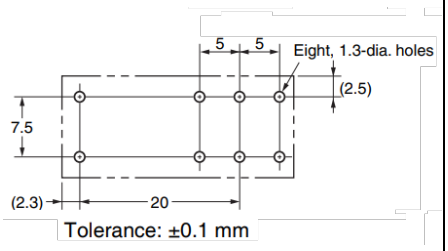
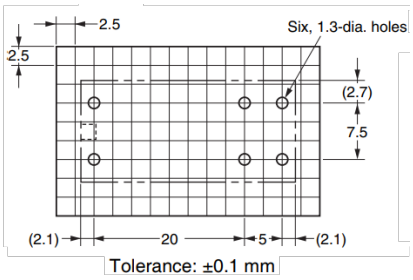
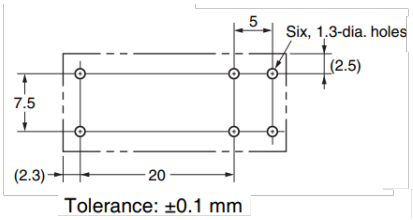
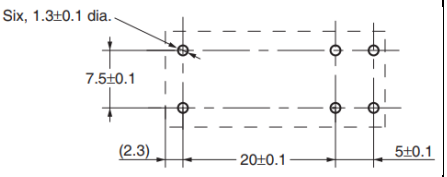
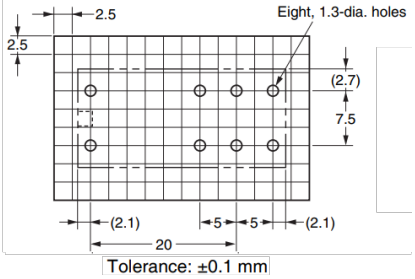
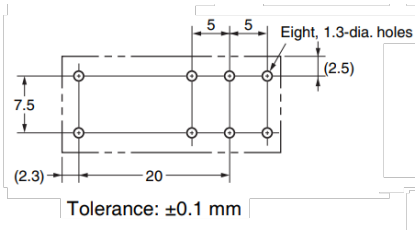
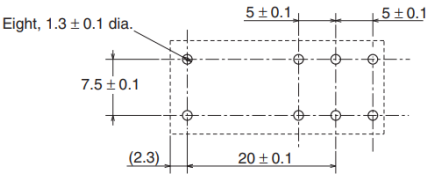
[Wire connection]

Recommendable replacement ModelG2R series	Recommendable replacement Model G2RL series	Recommendable replacement Model G5RL series
G2R-1A series  (No coil polarity)	G2RL-1A series  (No coil polarity)	G5RL-1A series  (No coil polarity)
G2R-1 series  (No coil polarity)	G2RL-1 series  (No coil polarity)	G5RL-1 series  (No coil polarity)
G2R-2A series  (No coil polarity)	G2RL-2A series  (No coil polarity)	There is no recommended replacement for the 2-pole series.

Recommendable replacement ModelG2R series	Recommendable replacement Model G2RL series	Recommendable replacement Model G5RL series
G2R-2 series  (No coil polarity)	**G2RL-2 series**  (No coil polarity)	**There is no recommended replacement for the 2-pole series.**
G2R-1A-E series  (No coil polarity)	**G2RL-1A-E series**  (No coil polarity)	**G5RL-1A-E series**  (No coil polarity)
G2R-1-E series  (No coil polarity)	**G2RL-1-E series**  (No coil polarity)	**G5RL-1-E series**  (No coil polarity)

[Mounting dimensions]

Recommendable replacement Model G2R series	Recommendable replacement Model G2RL series	Recommendable replacement Model G5RL series
G2R-1A series  Tolerance: ±0.1 mm	**G2RL-1A series**  Tolerance: ±0.1 mm	**G5RL-1A series** 
G2R-1 series  Tolerance: ±0.1 mm	**G2RL-1 series**  Tolerance: ±0.1 mm	**G5RL-1 series** 

Recommendable replacement Model G2R series	Recommendable replacement Model G2RL series	Recommendable replacement Model G5RL series
G2R-2A series  	**G2RL-2A series**  	**There is no recommended replacement for the 2-pole series.**
G2R-2 series  	**G2RL-2 series**  	
G2R-1A-E series  	**G2RL-1A-E series**  	**G5RL-1A-E series** 
G2R-1-E series  	**G2RL-1-E series**  	**G5RL-1-E series** 

[Characteristics]

Recommendable replacement model G2R series

● Coil

Classification	Item / Rated voltage	Rated current (mA) 50 Hz	Rated current (mA) 60 Hz	Coil resistance (Ω)	Must operate voltage (V) % of rated voltage	Must release voltage (V) % of rated voltage	Max. voltage (V) % of rated voltage	Power consumption (VA, W)
• Standard • Fully sealed	12 VAC	93	75	65	80% max.	30% min.	140% (at 23°C)	Approx. 0.9 (60 Hz)
	24 VAC	46.5	37.5	260				
	100/(110) VAC	11	9/(10.6)	4,600				
	200/(220) VAC	5.5	4.5/(5.3)	20,200				
• Standard • Fully sealed	5 VDC	106		47	70% max.	15% min.	170% (at 23°C)	Approx. 0.53
	12 VDC	43.6		275				
	24 VDC	21.8		1,100				
	100 VDC	5.3		18,870				
• High-capacity	5 VDC	106		47	70% max.	15% min.	170% (at 23°C)	Approx. 0.53
	12 VDC	43.6		275				
	24 VDC	21.8		1,100				

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. AC coil resistances shown above are only reference values.
3. The operating characteristics are measured at a coil temperature of 23°C.
4. The "Max. voltage" is the maximum voltage that can be applied to the relay coil.

● Coil: Double-winding Latching Relays

Item / Rated voltage	Set Coil: Rated current (mA)	Set Coil: Coil resistance (Ω)	Reset coil: Rated current (mA)	Reset coil: Coil resistance (Ω)	Must set voltage (V) % of rated voltage	Must reset voltage (V) % of rated voltage	Max. voltage (V) % of rated voltage	Power consumption: Set Coil (mW)	Power consumption: Reset coil (mW)
5 VDC	167	30	119	42	70% max.	70% max.	140% (at 23°C)	Approx. 850	Approx. 600
12 VDC	70.6	170	50	240					
24 VDC	34.6	694	25	960					

Note 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%.
2. The operating characteristics are measured at a coil temperature of 23°C.
3. The "Max. voltage" is the maximum voltage that can be applied to the relay coil.

● Contacts: Flux Protection Type

Classification	Standard type Quick-connect Terminal (1single-pole type)				High-capacity type	
Number of poles	1-pole		2-pole		1-pole	
Load / Item	Resistive load	Inductive load (cosϕ = 0.4; L/R = 7 ms)	Resistive load	Inductive load (cosϕ = 0.4; L/R = 7 ms)	Resistive load	Inductive load (cosϕ = 0.4; L/R = 7 ms)
Contact type	Single				Single	
Contact material	Ag-alloy (Cd free)					
Rated load	10 A at 250 VAC 10 A at 30 VDC	7.5 A at 250 VAC 5 A at 30 VDC	5 A at 250 VAC 5 A at 30 VDC	2 A at 250 VAC 3 A at 30 VDC	16 A at 250 VAC 16 A at 30 VDC	8 A at 250 VAC 8 A at 30 VDC
Rated carry current	10 A		5 A		16 A	
Max. switching voltage	380 VAC, 125 VDC				380 VAC, 125 VDC	
Max. switching current	10 A		5 A		16 A	
Failure rate (P level) (reference value) *	100 mA at 5 VDC		10 mA at 5 VDC		100 mA at 5 VDC	

* This value was measured at a switching frequency of 120 operations/min.

● Contacts: Fully Sealed Type

Classification / Number of poles / Item / Load	Standard type (Single contact type)			
	1-pole		2-pole	
	Resistive load (cosϕ = 1)	Inductive load (cosϕ = 0.4; L/R = 7 ms)	Resistive load (cosϕ = 1)	Inductive load (cosϕ = 0.4; L/R = 7 ms)
Contact type	Single		Single	
Contact material	Ag-alloy (Cd free)			
Rated load	8 A at 250 VAC 8 A at 30 VDC	6 A at 250 VAC 4 A at 30 VDC	4 A at 250 VAC 4 A at 30 VDC	1.5 A at 250 VAC 2.5 A at 30 VDC
Rated carry current	8 A		4 A	
Max. switching voltage	380 VAC, 125 VDC		380 VAC, 125 VDC	
Max. switching current	8 A		4 A	
Failure rate (P level) (reference value) *	100 mA at 5 VDC		10 mA at 5 VDC	

* This value was measured at a switching frequency of 120 operations/min.

Recommendable replacement model G2RL series

●Coil

Item / Rated voltage	Rated current (mA)	Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Max. voltage (V)	Power consumption (mW)
			% of rated voltage			
Standard, High-capacity — 5 VDC	80.0	62.5	70% max.	10% min. 10 to 41%*	130% (at 85°C)	Approx. 400 Approx. 120*
12 VDC	33.3	360				
24 VDC	16.7	1,440				
48 VDC	8.96	5,358				Approx. 430
High-sensitivity — 5 VDC	50	96	75% max.	10%		Approx. 250
12 VDC	20.8	576				
24 VDC	10.42	2,304				

Note 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%.
Note 2. The operating characteristics are measured at a coil temperature of 23°C.
Note 3. The "max. voltage" is the maximum voltage that can be applied to the relay coil.
* These numbers are only for -PW1 type. Power consumption with holding voltage is approx.120mW. Please confirm the detail in page 8 coil voltage reduction (holding voltage).

●Contacts: Flux Protection Type

Classification / Item / Model	Standard type (resistive load)		High-capacity type (resistive load)	High-sensitivity type (resistive load)
	1-pole	2-pole	1-pole	
Contact type	Single			
Contact material	Ag-alloy (Cd free)			
Rated load	12 A at 250 VAC 12 A at 24 VDC (See note)	8 A at 250 VAC 8 A at 30 VDC (See note)	16 A at 250 VAC 16 A at 24 VDC (See note)	10 A at 250 VAC (See note)
Rated carry current	12 A (See note)	8 A (70°C)/5 A (85°C) (See note)	16 A (See note)	10 A (See note)
Max. switching voltage	440 VAC, 300 VDC			
Max. switching current	12 A	8 A	16 A	10 A
Failure rate (P level) (reference value*)	40 mA at 24 VDC			

* This value was measured at a switching frequency of 120 operations/min.
Note: Contact your OMRON representative for the ratings on sealed models.

Recommendable replacement model G5RL series

●Coil

Low Noise Models: G5RL-1A(-E)-LN

Rated Voltage (VDC)	Rated current (mA)	Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Max voltage (V)	Power consumption (mW)
			% of rated voltage			
5	106	47.2	70% max.	10% min.	110%	Approx. 530
12	44.2	272				
24	22.1	1,086				

Note 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%.
2. Be sure to use a diode for surge absorption for the coil.
3. The operating characteristics are measured at a coil temperature of 23°C.
4. The "Max. voltage" is the maximum voltage that can be applied to the relay coil.

High-Inrush Models: G5RL-1(A)-E-HR, G5RL-1A(-E)-TV8

Rated Voltage (VDC)	Rated current (mA)	Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Max. voltage (V)	Power consumption (mW)
			% of rated voltage			
5	80	62.5	70% max.	10% min.	130%	Approx. 400
12	33.3	360				
24	16.7	1,440				
48	8.96	5,358				Approx. 430

Note 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%.
2. The operating characteristics are measured at a coil temperature of 23°C.
3. The "Max. voltage" is the maximum voltage that can be applied to the relay coil.

Models with AC Coil: G5RL-1-E

Rated Voltage (VAC)	Rated current at 50Hz (mA)	Rated current at 60Hz (mA)	Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Max. voltage (V)	Power consumption (mW)
				% of rated voltage			
24	31.3	28.3	443	75% max.	15% min.	110%	Approx. 750
100	7.5	6.88	8,220				
115/120	5.85/6.25	5.35/5.70	11,600				
200	3.75	3.45	33,000				
230/240	3.00/3.13	2.76/2.88	47,600				

Note 1. The rated current tolerance is +15%/-20%.
2. The operating characteristics are measured at a coil temperature of 23°C.
3. Coil resistances are provided as reference values.
4. The "Max. voltage" is the maximum voltage that can be applied to the relay coil.

●Contacts

Low Noise Models: G5RL-1A(-E)-LN

Load	Resistive load	
	Standard	High-capacity
Contact form	SPST-NO (1a)	
Contact Type	Single	
Contact material	Ag Alloy	
Rated load	12 A at 250 VAC 12 A at 24 VDC	16 A at 250 VAC 16 A at 24 VDC
Rated carry current	12 A	16 A
Max. switching voltage	250 VAC, 24 VDC	
Max. switching current	12 A	16 A

High-Inrush Models: G5RL-1(A)-E-HR, G5RL-1A(-E)-TV8

Load	Resistive load		
	Standard	High-capacity	
Contact form	SPST-NO (1a)	SPST-NO (1a)	SPDT (1c)
Contact Type	Single		
Contact material	Ag Alloy		
Rated load	12 A at 250 VAC 12 A at 24 VDC	16 A at 250 VAC 16 A at 24 VDC	16 A at 250 VAC, 24VDC (NO) 5 A at 250 VAC, 24 VDC (NC)
Rated carry current	12 A	16 A	16 A (NO), 5 A (NC)
Max. switching voltage	250 VAC, 24 VDC		
Max. switching current	12 A	16 A	16 A (NO), 5 A (NC)

Models with AC Coil: G5RL-1-E

Load	Resistive load
	High-capacity
Contact form	SPDT (1c)
Contact Type	Single
Contact material	Ag Alloy
Rated load	16 A at 250 VAC, 24 VDC (NO) 5 A at 250 VAC, 24 VDC (NC)
Rated carry current	16 A (NO), 5 A (NC)
Max. switching voltage	250 VAC, 24 VDC
Max. switching current	16 A (NO), 5 A (NC)

[Operation ratings]

Recommendable replacement model G2R series

● Standard Relays

Item	Number of poles	1-pole	2-pole
Contact resistance *1		30 mΩ max.	50 mΩ max.
Operate time *2		15 ms max.	
Release time *2		AC: 10 ms max.; DC: 5 ms max.	
Max. operating frequency	Mechanical	18,000 operations/hr	
	Electrical	1,800 operations/hr	
Insulation resistance *3		1,000 MΩ min.	
Dielectric strength	Between coil and contacts	5,000 VAC, 50/60 Hz for 1 min	
	Between contacts of different polarity	-	3,000 VAC, 50/60 Hz for 1 min
	Between contacts of the same polarity	1,000 VAC, 50/60 Hz for 1 min	
Insulation distance	Between coil and contacts	Clearance: 8 mm, Creepage: 8 mm	
Vibration resistance	Destruction	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)	
	Malfunction	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)	
Shock resistance	Destruction	1,000 m/s²	
	Malfunction	200 m/s² when energized; 100m/s² when no energized	
Durability	Mechanical	AC coil: 10,000,000 operations min.; DC coil: 20,000,000 operations min. (at 18,000 operations/hr)	
	Electrical	100,000 operations min. (at 1,800 operations/hr under rated load)	
Ambient operating temperature		-40°C to 70°C (with no icing)	
Ambient operating humidity		5% to 85%	
Weight		Approx. 17 g (Approx. 20 g *4)	

Note: The values here are initial values.
*1. Measurement conditions: 5 VDC, 1 A, voltage-drop method.
*2. Measurement conditions: Rated operating voltage applied, not including contact bounce.
*3. Measurement conditions: The insulation resistance was measured with a 500 VDC megohmmeter at the same locations as the dielectric strength was measured.
*4. Value for quick-connect terminals.

Double-winding Latching Relays

Item	Number of poles	1-pole	2-pole
Contact resistance *1		30 mΩ max.	50 mΩ max.
Set	Time *2	20 ms max.	
	Min. set pulse width *3	30 ms	
Reset	Time *2	20 ms max.	
	Min. reset pulse width *3	30 ms	
Max. operating frequency	Mechanical	18,000 operations/hr	
	Electrical	1,800 operations/hr	
Insulation resistance *4		1,000 MΩ min.	
Dielectric strength	Between coil and contacts	5,000 VAC, 50/60 Hz for 1 min	
	Between contacts of different polarity	–	3,000 VAC, 50/60 Hz for 1 min
	Between contacts of the same polarity	1,000 VAC, 50/60 Hz for 1 min	
	Between set and reset coils	1,000 VAC, 50/60 Hz for 1 min	
Insulation distance	Between coil and contacts	Clearance: 8 mm, Creepage: 8 mm	
Vibration resistance	Destruction	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)	
	Malfunction	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)	
Shock resistance	Destruction	1,000 m/s²	
	Malfunction	Set: 500m/s² Armature OFF Reset: 200m/s² Contact OFF	
Durability	Mechanical	10,000,000 operations min (at 18,000 operations/hr)	
	Electrical	100,000 operations min. (at 1,800 operations/hr under rated load)	
Ambient operating temperature		-40°C to 70°C (with no icing or condensation)	
Ambient operating humidity		5% to 85%	
Weight		Approx. 17 g	

Note: The values here are initial values.
*1. Measurement conditions: 5 VDC, 1 A, voltage-drop method.
*2. Measurement conditions: Rated operating voltage applied, not including contact bounce.
*3. Measurement couditions: Rated operating voltage applied.
*4. Measurement conditions: The insulation resistance was measured with a 500 VDC megohmmeter at the same locations as the dielectric strength was measured.

Recommendable replacement model G2RL series

●Flux Protection Type

Classification		Standard type		High-capacity type	High-sensitivity type
Item	Number of poles	1-pole	2-pole	1-pole	
Contact resistance *1		100 mΩ max.			
Operate time		15 ms max.			
Release time		5 ms max.			
Insulation resistance *2		1,000 MΩ min.			
Dielectric strength	Between coil and contacts	5,000 VAC, 50/60 Hz for 1min			
	Between contacts of the same polarity	1,000 VAC, 50/60 Hz for 1min			
	Between contacts of different polarity	–	2,500 VAC, 50/60 Hz for 1min	–	
Impulse withstand voltage		10 kV (1.2 x 50 µs)			
Vibration resistance	Destruction	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)			
	Malfunction	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)			
Shock resistance	Destruction	1,000 m/s²			
	Malfunction	Energized: 100 m/s², De-energized: 100 m/s²			
Durability	Mechanical	20,000,000 operations (at 18,000 operations/hr)			
	Electrical *3 (resistive load)	G2RL-1A, G2RL-1(-HA, -PW1): 50,000 operations at 250 VAC, 12 A 30,000 operations at 24 VDC, 12 A	G2RL-2(A)(-HA, -PW1), G2RL-2-ASI: 30,000 operations at 250 VAC, 8 A 30,000 operations at 30 VDC, 8 A	G2RL-1A-E(-ASI, -HA, -PW1), G2RL-1-E(-ASI, -HA, -PW1): 30,000 operations at 250 VAC, 16 A 30,000 operations at 24 VDC, 16 A G2RL-1A-E-CV(-HA): 50,000 operations at 250 VAC, 16 A at 105°C	G2RL-1(A)-H: 50,000 operations at 250 VAC, 10 A
Ambient operating temperature		-40°C to 85°C (with no icing or condensation) -40°C to 105°C (with no icing or condensation) by G2RL-1A-E-CV			
Ambient operating humidity		5% to 85% (with no icing or condensation)			
Weight		Approx. 12 g			

Note 1. Values in the above table are the initial values at 23°C.
Note 2. Contact your OMRON sales representative for sealed models.
*1. Measurement conditions: 5 VDC, 1 A, voltage drop method
*2. Measurement conditions: Measured at the same points as the dielectric strength using a 500 VDC ohmmeter.
*3. 1,800 operations per hour.

Recommendable replacement model G5RL series

●Low Noise Models: G5RL-1A(-E)-LN

Item	Classification	Standard	High-capacity
Contact resistance		100 mΩ max.	
Operate time		15 ms max.	
Release time		15 ms max.	
Insulation resistance		1,000 MΩ min.	
Dielectric strength	Between coil and contacts	6,000 VAC, 50/60 Hz for 1 min	
	Between contacts of the same polarity	1,000 VAC, 50/60 Hz for 1 min	
Impulse withstand voltage	Between coil and contacts	10 kV (1.2 × 50 μs)	
Insulation distance	Between coil and contacts	Clearance: 8 mm, Creepage: 8 mm	
Vibration resistance	Destruction	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)	
	Malfunction	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	Mechanical	1,000,000 operation min. (at 18,000 operations/hr)	
	Electrical	100,000 operations min. (at 1,800 operations/hr)	50,000 operations min. (at 1,800 operations/hr)
Failure rate (P level) (reference)		100 mA at 5 VDC	
Ambient operating temperature		-40°C to 85°C (with no icing or condensation)	
Ambient operating humidity		5% to 85%	
Weight		Approx. 10 g	

Note 1. Values in the above table are initial values.
2. The contact resistance is measured with 1 A applied at 5 VDC using a fall-of-potential method.
3. The insulation resistance is measured between coil and contacts and between contacts of the same polarity at 500 VDC.
4. The release time is value with a diode attached.
5. Failure rate (P level) was measured at a switching frequency of 120 operations/min.

●High-Inrush Models: G5RL-1(A)-E-HR, G5RL-1A(-E)-TV8

Item	Classification	Standard	High-capacity
Contact resistance		100 mΩ max.	
Operate time		15 ms max.	
Release time		5 ms max.	
Insulation resistance		1,000 MΩ min. (at 500 VDC)	
Dielectric strength	Between coil and contacts	6,000 VAC, 50/60 Hz for 1 min	
	Between contacts of the same polarity	1,000 VAC, 50/60 Hz for 1 min	
Impulse withstand voltage	Between coil and contacts	10 kV (1.2 × 50 μs)	
Insulation distance	Between coil and contacts	Clearance: 8 mm, Creepage: 8 mm	
Vibration resistance	Destruction	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)	
	Malfunction	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	Mechanical	10,000,000 operation min. (at 18,000 operations/hr)	
	Electrical	100,000 operations min. (at 1,800 operations/hr)	50,000 operations min. (at 1,800 operations/hr)
Failure rate (P level) (reference)		100 mA at 5 VDC	
Ambient operating temperature		-40°C to 85°C (with no icing or condensation)	
Ambient operating humidity		5% to 85%	
Weight		Approx. 10 g	

Note 1. Values in the above table are initial values.
2. The contact resistance is measured with 1 A applied at 5 VDC using voltage drop method.
3. The insulation resistance is measured between coil and contacts and between contacts of the same polarity at 500 VDC.
4. The resistive load ratings for NO contact apply when there is no load on NC contact.
5. Failure rate (P level) was measured at a switching frequency of 120 operations/min.

●Models with AC Coil: G5RL-1-E

Item	Classification	High-capacity
Contact resistance		100 mΩ max.
Operate time		20 ms max.
Release time		20 ms max.
Insulation resistance		1,000 MΩ min. (at 500 VDC)
Dielectric strength	Between coil and contacts	6,000 VAC, 50/60 Hz for 1 min
	Between contacts of the same polarity	1,000 VAC, 50/60 Hz for 1 min
Impulse withstand voltage	Between coil and contacts	10 kV (1.2 × 50 μs)
Insulation distance	Between coil and contacts	Clearance: 8 mm, Creepage: 8 mm
Vibration resistance	Destruction	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)
	Malfunction	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	Mechanical	10,000,000 operation min. (at 18,000 operations/hr)
	Electrical	50,000 operations min. (at 720 operations/hr)
Failure rate (P level) (reference)		40 mA at 24 VDC
Ambient operating temperature		-40°C to 70°C (with no icing or condensation)
Ambient operating humidity		5% to 85%
Weight		Approx. 10 g

Note 1. Values in the above table are initial values.
2. The contact resistance is measured with 1 A applied at 5 VDC using voltage drop method.
3. The insulation resistance is measured between coil and contacts and between contacts of the same polarity at 500 VDC.
4. The resistive load ratings for NO contact apply when there is no load on NC contact.
5. Failure rate (P level) was measured at a switching frequency of 120 operations/min.

[Operation methods]
There is no change in the operation method.

* For a comparison of the specifications of discontinued products and recommended substitute products, please refer to Appendix” Spec Comparison_G2R”