PRODUCT NEWS

Product Discontinuation Notices

PCB Power Relays

OMRON

Issue Date
November 17, 2014

No. YPE-G8P-0162

Discontinuation Notice of PCB Power Relays G8P Series.

Product Discontinuation		Recommended Replacement
PCB Power Relays		PCB Power Relays
Model G8P-1C Series **Model G8P-1A Series** **Model G8P Series DC110**	➡	**Model G2RL-1-E** **Model G4A-1A-(P)E** **Model G2R-1(A)-E DC110**

[Discontinuation date]

Last delivery date: 31-3-2016 (from factory to EDC)
Last order date: 31-5-2015

[Caution on recommended replacement]

There are some differences (Dimensions, Wire connection, Mounting Dimensions,).
Therefore, please re-evaluate adequacy with applications.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimen -sions	Wire connection	Mounting Dimensions	Charact -eristics	Operation ratings	Operation methods
Model G2RL-1-E	**	--	--	--	*	*	**
Model G4A-1A-(P)E	**	--	--	--	*	*	**
Model G2R-1(A)-E	--	--	--	--	*	*	**

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

[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
G8P-1CTP DC24 BY OMZ/C	G2RL-1-E DC24 BY OMB
G8P-1CTP DC24 BY OMZ	G2RL-1-E DC24 BY OMB
G8P-1CTP DC12 BY OMZ	G2RL-1-E DC12 BY OMB
G8P-1CP DC48 BY OMZ	G2RL-1-E DC48 BY OMB
G8P-1CP DC24 BY OMZ/C	G2RL-1-E DC24 BY OMB
G8P-1CP DC24 BY OMZ	G2RL-1-E DC24 BY OMB
G8P-1CP DC12 BY OMZ/C	G2RL-1-E DC12 BY OMB
G8P-1CP DC12 BY OMZ	G2RL-1-E DC12 BY OMB
G8P-1C4TP DC9 BY OMZ	G2RL-1-E DC9 BY OMB
G8P-1C4TP DC5 BY OMZ/C	G2RL-1-E DC5 BY OMB
G8P-1C4TP DC5 BY OMZ	G2RL-1-E DC5 BY OMB
G8P-1C4TP DC48 BY OMZ	G2RL-1-E DC48 BY OMB
G8P-1C4TP DC24 BY OMZ/C	G2RL-1-E DC24 BY OMB
G8P-1C4TP DC24 BY OMZ	G2RL-1-E DC24 BY OMB
G8P-1C4TP DC22 BY OMZ	G2RL-1-E DC22 BY OMB
G8P-1C4TP DC12 BY OMZ/C	G2RL-1-E DC12 BY OMB
G8P-1C4TP DC12 BY OMZ	G2RL-1-E DC12 BY OMB
G8P-1C4P DC9 BY OMZ/C	G2RL-1-E DC9 BY OMB
G8P-1C4P DC9 BY OMZ	G2RL-1-E DC9 BY OMB
G8P-1C4P DC5 BY OMZ/C	G2RL-1-E DC5 BY OMB
G8P-1C4P DC5 BY OMZ	G2RL-1-E DC5 BY OMB
G8P-1C4P DC48 BY OMZ/C	G2RL-1-E DC48 BY OMB
G8P-1C4P DC48 BY OMZ	G2RL-1-E DC48 BY OMB
G8P-1C4P DC24 BY OMZ/C	G2RL-1-E DC24 BY OMB
G8P-1C4P DC24 BY OMZ	G2RL-1-E DC24 BY OMB
G8P-1C4P DC24 BY OMI	G2RL-1-E DC24 BY OMB
G8P-1C4P DC22 BY OMZ	G2RL-1-E DC22 BY OMB
G8P-1C4P DC12 BY OMZ/C	G2RL-1-E DC12 BY OMB
G8P-1C4P DC12 BY OMZ	G2RL-1-E DC12 BY OMB
G8P-1C4P DC12 BY OMI	G2RL-1-E DC12 BY OMB
G8P-1C4P DC110 BY OMZ/C	G2R-1-E DC110 BY OMI
G8P-1C4P DC110 BY OMZ	G2R-1-E DC110 BY OMI
G8P-1C2T-F DC5 BY OMZ/C	G2RL-1-E DC5 BY OMB
G8P-1C2T-F DC5 BY OMZ	G2RL-1-E DC5 BY OMB
G8P-1C2T-F DC48 BY OMZ	G2RL-1-E DC48 BY OMB
G8P-1C2T-F DC24 BY OMZ/C	G2RL-1-E DC24 BY OMB
G8P-1C2T-F DC24 BY OMZ	G2RL-1-E DC24 BY OMB
G8P-1C2T-F DC12 BY OMZ/C	G2RL-1-E DC12 BY OMB
G8P-1C2T-F DC12 BY OMZ	G2RL-1-E DC12 BY OMB
G8P-1C2P DC24 BY OMZ/C	G2RL-1-E DC24 BY OMB
G8P-1C2P DC24 BY OMZ	G2RL-1-E DC24 BY OMB
G8P-1C2P DC12 BY OMZ	G2RL-1-E DC12 BY OMB
G8P-1ATP DC5 BY OMZ	G4A-1A-E DC5 BY OMZ
G8P-1ATP DC24 BY OMZ	G4A-1A-E DC24 BY OMZ
G8P-1ATP DC12 BY OMZ/C	G4A-1A-E DC12 BY OMZ/C

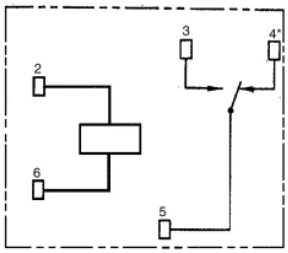
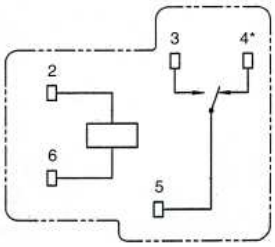
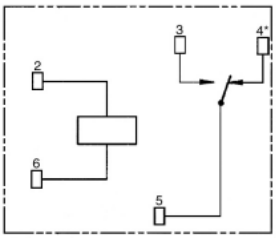
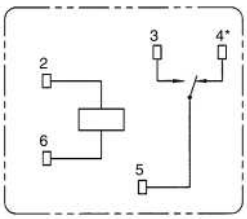
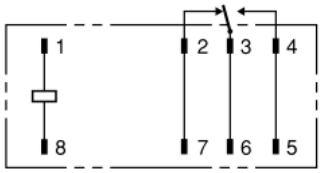
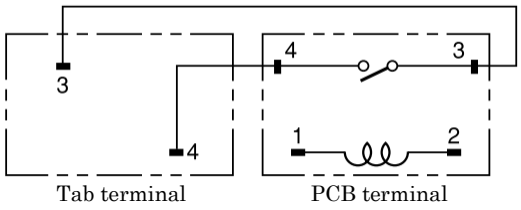
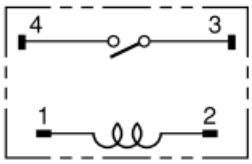
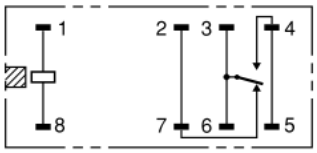
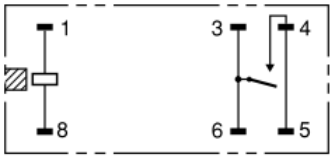
G8P-1ATP DC12 BY OMZ	G4A-1A-E DC12 BY OMZ
G8P-1ATP DC110 BY OMZ	G2R-1A-E DC110 BY OMI
G8P-1AP DC9 BY OMZ	G4A-1A-PE DC9 BY OMZ
G8P-1AP DC5 BY OMZ/C	G4A-1A-PE DC5 BY OMZ/C
G8P-1AP DC5 BY OMZ	G4A-1A-PE DC5 BY OMZ
G8P-1AP DC24 BY OMZ/C	G4A-1A-PE DC24 BY OMZ/C
G8P-1AP DC24 BY OMZ	G4A-1A-PE DC24 BY OMZ
G8P-1AP DC12 BY OMZ/C	G4A-1A-PE DC12 BY OMZ/C
G8P-1AP DC12 BY OMZ	G4A-1A-PE DC12 BY OMZ
G8P-1AP DC110 BY OMZ	G2R-1A-E DC110 BY OMI
G8P-1A4TP DC9 BY OMZ	G4A-1A-E DC9 BY OMZ
G8P-1A4TP DC5 BY OMZ/C	G4A-1A-E DC5 BY OMZ/C
G8P-1A4TP DC5 BY OMZ	G4A-1A-E DC5 BY OMZ
G8P-1A4TP DC24 BY OMZ/C	G4A-1A-E DC24 BY OMZ/C
G8P-1A4TP DC24 BY OMZ	G4A-1A-E DC24 BY OMZ
G8P-1A4TP DC18 BY OMZ	G4A-1A-E DC18 BY OMZ
G8P-1A4TP DC12 BY OMZ/C	G4A-1A-E DC12 BY OMZ/C
G8P-1A4TP DC12 BY OMZ	G4A-1A-E DC12 BY OMZ
G8P-1A4TP DC110 BY OMZ	G2R-1A-E DC110 BY OMI
G8P-1A4P-VD DC12 BY OMZ	G4A-1A-PE DC12 BY OMZ
G8P-1A4P-TV5 DC24 BY OMZ	G4A-1A-PE DC24 BY OMZ
G8P-1A4P-BG DC24 BY OMZ	G4A-1A-PE DC24 BY OMZ
G8P-1A4P-BG DC12 BY OMZ	G4A-1A-PE DC12 BY OMZ
G8P-1A4P DC9 BY OMZ/C	No Recommended Replacement
G8P-1A4P DC9 BY OMZ	G4A-1A-PE DC9 BY OMZ
G8P-1A4P DC5 BY OMZ/C	G4A-1A-PE DC5 BY OMZ/C
G8P-1A4P DC5 BY OMZ	G4A-1A-PE DC5 BY OMZ
G8P-1A4P DC48 BY OMZ/C	No Recommended Replacement
G8P-1A4P DC48 BY OMZ	No Recommended Replacement
G8P-1A4P DC24 BY OMZ/C	G4A-1A-PE DC24 BY OMZ/C
G8P-1A4P DC24 BY OMZ	G4A-1A-PE DC24 BY OMZ
G8P-1A4P DC18 BY OMZ/C	No Recommended Replacement
G8P-1A4P DC18 BY OMZ	G4A-1A-PE DC18 BY OMZ
G8P-1A4P DC15 BY OMZ/C	No Recommended Replacement
G8P-1A4P DC15 BY OMZ	No Recommended Replacement
G8P-1A4P DC12 BY OMZ/C	G4A-1A-PE DC12 BY OMZ/C
G8P-1A4P DC12 BY OMZ	G4A-1A-PE DC12 BY OMZ
G8P-1A4P DC12 BY OMI	G4A-1A-PE DC12 BY OMZ
G8P-1A4P DC110 BY OMZ	G2R-1A-E DC110 BY OMI
G8P-1A2T-F DC5 BY OMZ/C	G4A-1A-E DC5 BY OMZ/C
G8P-1A2T-F DC5 BY OMZ	G4A-1A-E DC5 BY OMZ
G8P-1A2T-F DC48 BY OMZ	No Recommended Replacement
G8P-1A2T-F DC24 BY OMZ/C	G4A-1A-E DC24 BY OMZ/C
G8P-1A2T-F DC24 BY OMZ	G4A-1A-E DC24 BY OMZ
G8P-1A2T-F DC12 BY OMZ/C	G4A-1A-E DC12 BY OMZ/C
G8P-1A2T-F DC12 BY OMZ	G4A-1A-E DC12 BY OMZ
G8P-1A2P DC5 BY OMZ	G4A-1A-PE DC5 BY OMZ
G8P-1A2P DC48 BY OMZ	No Recommended Replacement
G8P-1A2P DC24 BY OMZ/C	G4A-1A-PE DC24 BY OMZ/C

G8P-1A2P DC24 BY OMZ	G4A-1A-PE DC24 BY OMZ
G8P-1A2P DC12 BY OMZ/C	G4A-1A-PE DC12 BY OMZ/C
G8P-1A2P DC12 BY OMZ	G4A-1A-PE DC12 BY OMZ

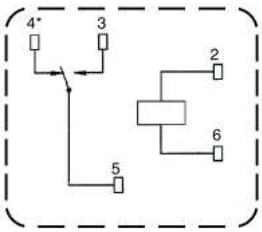
[Body color]

Product discontinuation Model G8P Series	Recommendable replacement Model G2RL-1-E Model G4A-1A-(P)E Model G2R-1(A)-E DC110
Black 	**Model G2RL-1-E: Black**  **Model G4A-1A-(P)E: Black**  **Model G2R-1(A)-E: Clear case** 

[Wire connection]

Product discontinuation Model G8P Series	Recommendable replacement Model G2RL-1-E Model G4A-1A-(P)E Model G2R-1(A)-E DC110
Model G8P series (BOTTOM VIEW) (No coil polarity) **Open frame, PCB terminals**  **Note:** Terminal #4 is omitted on G8P-1AP. **Sealed/ Ventable, PCB terminals**  *Note: Terminal #4 is omitted on SPST-NO version. **Open frame,** **PCB with Quick Connect terminals**  **Note:** Terminal #4 is omitted on G8P-1ATP. **Sealed/ Ventable,** **PCB with Quick Connect terminals**  *Note: Terminal #4 is omitted on SPST-NO version.	**Model G2RL-1-E** (BOTTOM VIEW) (No coil polarity)  **Model G4A-1A-E** (BOTTOM VIEW) (No coil polarity) (TOP VIEW) (BOTTOM VIEW)  Tab terminal PCB terminal **Model G4A-1A-PE** (BOTTOM VIEW) (No coil polarity)  **Model G2R-1-E** (BOTTOM VIEW) (No coil polarity)  **Model G2R-1A-E** (BOTTOM VIEW) (No coil polarity) 

Flange mount



*Note: Terminal #4 is omitted on SPST-NO version.

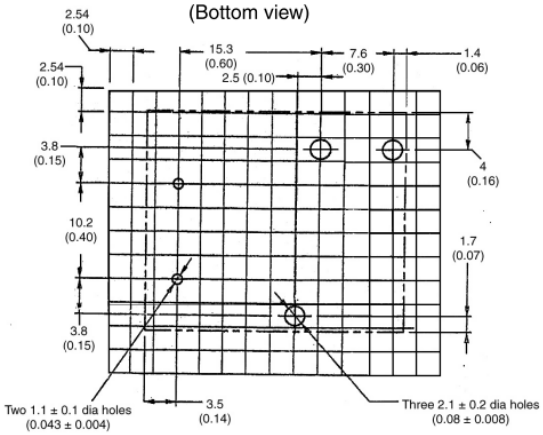
[Mounting dimensions]

Product discontinuation Model G8P Series	Recommendable replacement Model G2RL-1-E Model G4A-1A-(P)E Model G2R-1(A)-E DC110

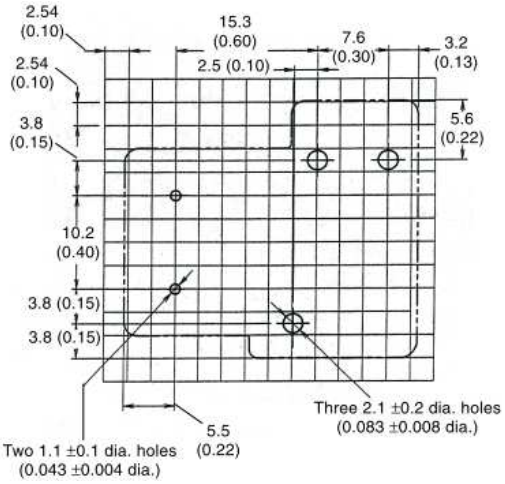
Model G8P series

(BOTTOM VIEW)

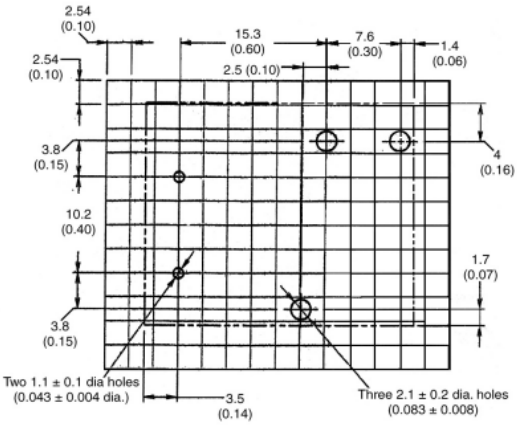
Open frame, PCB terminals



Sealed/ Ventable, PCB terminals

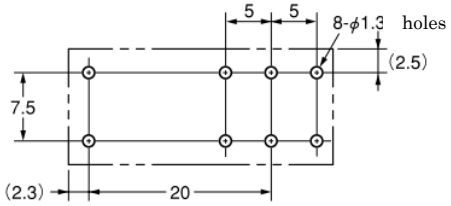


Open frame,
PCB with Quick Connect terminals



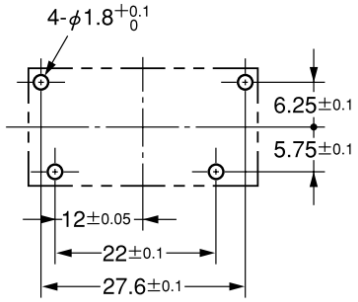
Model G2RL-1-E

(BOTTOM VIEW)



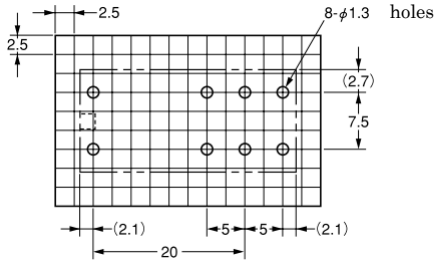
Model G4A-1A-(P)E

(BOTTOM VIEW)



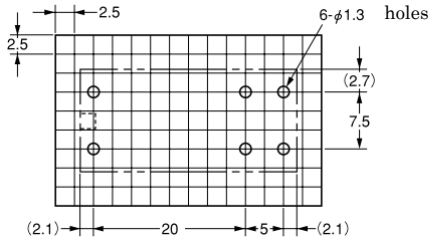
Model G2R-1-E

(BOTTOM VIEW)

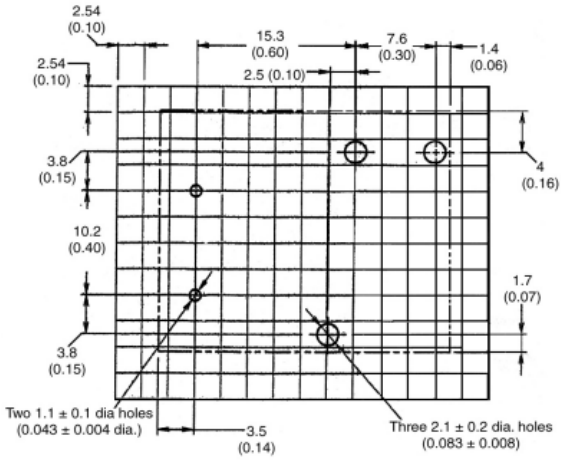


Model G2R-1A-E

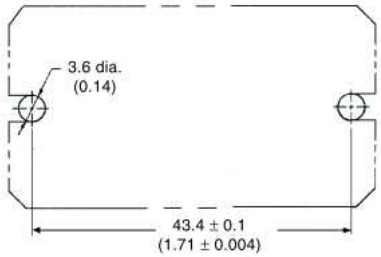
(BOTTOM VIEW)



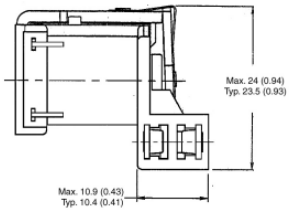
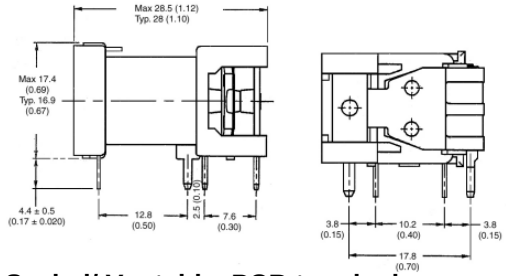
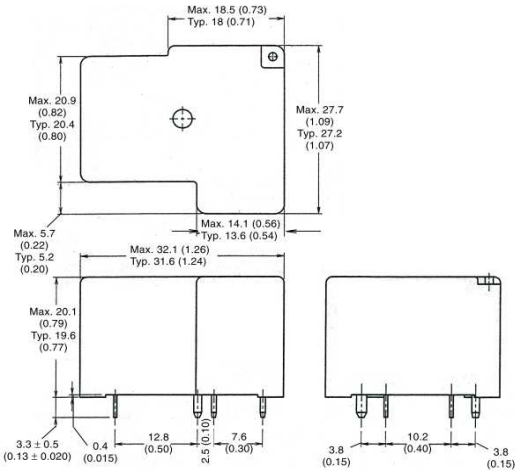
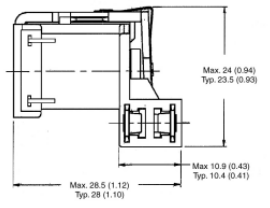
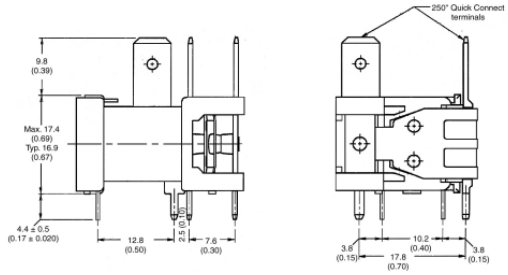
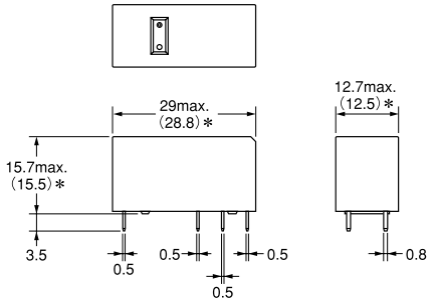
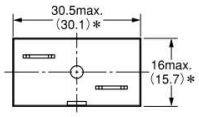
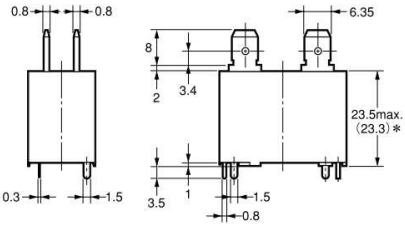
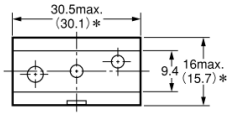
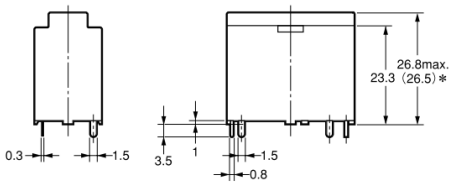
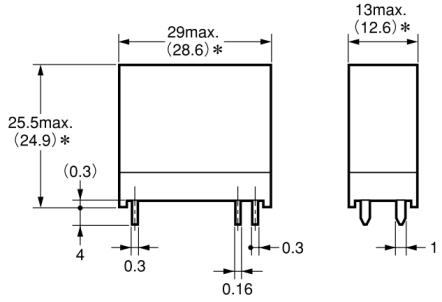
Sealed/ Ventable,
PCB with Quick Connect terminals



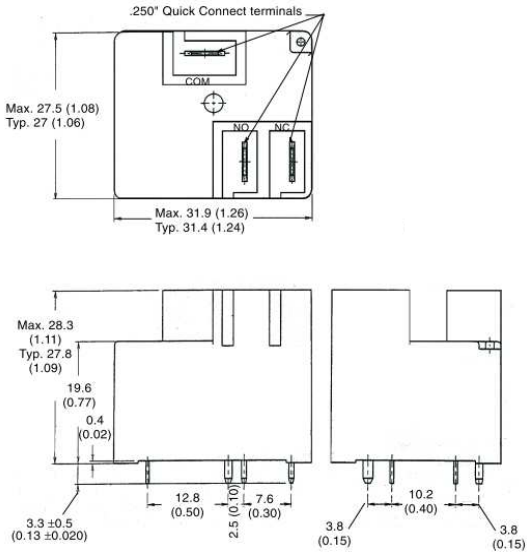
Flange mount



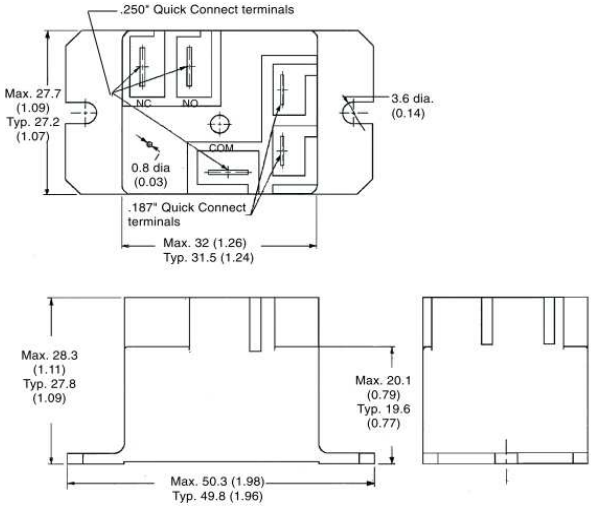
[Dimensions]

Product discontinuation Model G8P Series	Recommendable replacement Model G2RL-1-E Model G4A-1A-(P)E Model G2R-1(A)-E DC110
Model G8P series **Open frame, PCB terminals**   **Sealed/ Ventable, PCB terminals**  **Open frame,** **PCB with Quick Connect terminals**   	**Model G2RL-1-E**  *Average value **Model G4A-1A-E**   *Average value **Model G4A-1A-PE**   *Average value **Model G2R-1A-E**  *Average value

Sealed/ Ventable,
PCB with Quick Connect terminals



Flange mount



[Characteristics / Operation ratings]

■Coil Ratings

Model	Rated Voltage (VDC)	Rated current (mA)	Coil resistance (Ω)	Must operate voltage	Must release voltage	Rated power consumption (W)	Max voltage
G8P Series	5	185	27	75% max.	10% min	Approx. 0.9	120% (at23℃)
	9	93	97				
	12	77	155				
	24	36	660				
	48	19	2480				
	110	9	12400				
G2RL-1-E	5	80	62.5	70% max.	10% min	Approx.0.4	180% (at23℃)
	9	44.4	202.5				
	12	33.3	360				
	24	16.7	1440				
	48	8.96	5358			Approx.0.43	
G4A-1A-(P)E	5	180	27.8	70% max.	10% min	Approx.0.9	160% (at23℃)
	9	100	90				
	12	75	160				
	24	37.5	640				
G2R-1(A)-E	110	4.8	22900	70% max	15% min	Approx.0.53	170% (at23℃)

Items	Product discontinuation Model G8P Series		Recommendable replacement Model G2RL-1-E	Recommendable replacement Model G4A-1A-(P)E	Recommendable replacement Model G2R-1(A)-E
■Contact Ratings					
Contact Form	**1A**	**1C**	**1C**	**1A**	**1A / 1C**
Rated load (resistive)	30A 250VAC (-BG:20A 250VAC) 20A 28VDC (-BG:---)	20/10A 250VAC (NO/NC) 20/10A 28VDC (NO/NC)	16A 250VAC	250VAC 20A	250VAC 6A 30VDC 16A
Rated carry current	30A (-BG:20A)	20/10A (NO/NC)	16A	20A	16A
Max. switching voltage	250VAC 28VDC		440VAC 300VDC	250VAC	380VAC 125VDC
Max. switching current	AC:30A (-BG: AC20A) DC:20A	20/10A (AC,DC)	16A	20A	16A

Items	Product discontinuation Model G8P Series	Recommendable replacement Model G2RL-1-E	Recommendable replacement Model G4A-1A-(P)E	Recommendable Replacement Model G2R-1(A)-E
■Characteristic				
Contact resistance	100mΩmax	100mΩmax	100mΩmax	30mΩmax
Operate time	15ms max (-BG: 20ms max.)	15ms max	20ms max	15ms max
Release time	10ms max	5ms max	10ms max	5ms max
Insulation resistance	100 MΩ min	1,000 MΩ min	1,000 MΩ min	1,000 MΩ min
Dielectric strength	[Coil and contacts] 2,500VAC 1min (-BG: 4,000 VAC) [Contacts of same polarity] 1,500VAC 1min	[Coil and contacts] 5,000VAC 1min [Contacts of same polarity] 1,000VAC 1min	[Coil and contacts] 4,500VAC 1min [Contacts of same polarity] 1,000VAC 1min	[Coil and contacts] 5,000VAC 1min [Contacts of same polarity] 1,000VAC 1min
Vibration resistance	[Destruction] 10 to 55 Hz (1.65mm double amplitude) (-BG:10 to 55 Hz 1.5mm double amplitude) [Malfunction] 10 to 55 Hz, (1.65mm double amplitude)	[Destruction] 10 to 55 to 10Hz, (1.5mm double amplitude) [Malfunction] 10 to 55 to 10Hz, (1.5mm double amplitude)	[Destruction] 10 to 55 to 10Hz, (1.5mm double amplitude) [Malfunction] 10 to 55 to 10Hz, (1.5mm double amplitude)	[Destruction] 10 to 55 to 10Hz, (1.5mm double amplitude) [Malfunction] 10 to 55 to 10Hz, (1.5mm double amplitude)
Shock resistance	[Destruction] 1,000m/s² [Malfunction] 100m/s²	[Destruction] 1,000m/s² [Malfunction] 100m/s²	[Destruction] 1,000m/s² [Malfunction] 200m/s²	[Destruction] 1,000m/s² [Malfunction] 200m/s²
Endurance	[Mechanical] 10,000,000 operations min (18,000 ops/hr) (-BG:5,000,000 operations min) [Electrical] 100,000 operations min(approx). (360 ops/hr) (-BG:40,000 operations min)	[Mechanical] 20,000,000 operations min (18,000 ops/hr) [Electrical] 16A 250VAC 30,000 operations min	[Mechanical] 2,000,000 operations min (18,000 ops/hr) [Electrical] Rated load:100,000 operations min Motor load:200,000 operations min Inverter load:30,000 operations min	[Mechanical] 20,000,000 operations min (18,000 ops/hr) [Electrical] Rated load:100,000 operations min (18,000 ops/hr)
Ambient temperature	-55℃～+105℃ (with no icing)	-40℃～+85℃ (with no icing)	-20℃～+60℃ (with no icing)	-40℃～+70℃ (with no icing)
Ambient humidity	5～85%RH	5～85%RH	5～85%RH	5～85%RH
Weight	24～31g	12g	23g	17g

Note; Values in the above table are the initial values.

[Operation methods]

Product discontinuation Model G8P Series	Recommendable replacement Model G2RL-1-E Model G4A-1A-(P)E Model G2R-1(A)-E DC110
No difference	

Specifications and prices in this product news are as of the issue date and are subject to change without notice.
Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.