

**NO:** RL-146                      **PRODUCT:** G2A, G2AK Miniature Relays  
**DATE:** August 2015            **TYPE:** Discontinuation Notice

## G2A, G2AK Miniature Relays to be Discontinued; Replace with MY Relays

**Discontinuation Date: February 2017**

Note: Date is subject to change based on raw materials and components availability at the factory.



### Affected Parts

Product discontinuation	Recommended replacement
G2AK-234A DC48	No recommended replacement
G2AK-234A DC24	No recommended replacement
G2AK-234A DC12	No recommended replacement
G2AK-234A AC100	No recommended replacement
G2AK-232AY DC48	MY2K DC48
G2AK-232AY DC24	MY2K DC24
G2AK-232AY DC12	MY2K DC12
G2AK-232AY AC100	MY2K AC100
G2AK-232AY AC100	MY2K AC100/110
G2AK-232A DC6	MY2K DC6
G2AK-232A DC48	MY2K DC48
G2AK-232A DC24	MY2K DC24
G2AK-232A DC12	MY2K DC12
G2AK-232A AC50	No recommended replacement
G2AK-232A AC24	MY2K AC24
G2AK-232A AC12	MY2K AC12
G2AK-232A AC100	MY2K AC100
G2AK-232A AC100	MY2K AC100/110
G2AK-2321P DC48V	No recommended replacement
G2AK-2321P DC24	MY2K-02 DC24
G2AK-2321P DC12	MY2K-02 DC12
G2AK-2321P AC100	MY2K-02 AC100
G2A-4L34A AC200/220	No recommended replacement
G2A-4L34A AC100/110	No recommended replacement
G2A-4L32A-N1 DC24	No recommended replacement
G2A-4L32A-N DC24	No recommended replacement
G2A-4L32A-N DC100	No recommended replacement
G2A-4L32A-N AC200/220	No recommended replacement

<b>Product discontinuation</b>	<b>Recommended replacement</b>
G2A-4L32A-N AC100/110	No recommended replacement
G2A-4L32A-D DC24	No recommended replacement
G2A-4L32A-D DC110	No recommended replacement
G2A-4L32A DC48	No recommended replacement
G2A-4L32A DC24	No recommended replacement
G2A-4L32A DC125	No recommended replacement
G2A-4L32A DC12	No recommended replacement
G2A-4L32A DC110	No recommended replacement
G2A-4L32A DC100	No recommended replacement
G2A-4L32A AC240	No recommended replacement
G2A-4L32A AC24	No recommended replacement
G2A-4L32A AC200/220	No recommended replacement
G2A-4L32A AC100/110	No recommended replacement
G2A-434AY-N1 DC24	MYQ4ZN-D2 DC24
G2A-434AY-N DC24	MYQ4ZN DC24
G2A-434AY-N AC200/220	MYQ4ZN AC200/220
G2A-434AY-N AC100/110	MYQ4ZN AC100/110
G2A-434A-N1 DC48	MYQ4ZN-D2 DC48
G2A-434A-N1 DC24	MYQ4ZN-D2 DC24
G2A-434A-N1 DC100	MYQ4ZN-D2 DC100/110
G2A-434A-N DC6	No recommended replacement
G2A-434A-N DC48	No recommended replacement
G2A-434A-N DC24	MYQ4ZN DC24
G2A-434A-N DC12	No recommended replacement
G2A-434A-N DC100	MYQ4ZN DC100/110
G2A-434A-N AC50	No recommended replacement
G2A-434A-N AC24	MYQ4ZN AC24
G2A-434A-N AC200/220	MYQ4ZN AC200/220
G2A-434A-N AC12	No recommended replacement
G2A-434A-N AC115/120	MYQ4ZN AC110/120
G2A-434A-N AC100/110	MYQ4ZN AC100/110
G2A-434A-D DC24	No recommended replacement
G2A-434A DC48	MYQ4Z DC48
G2A-434A DC24	MYQ4Z DC24
G2A-434A DC12	MYQ4Z DC12
G2A-434A DC110	MYQ4Z DC100/110
G2A-434A DC100	MYQ4Z DC100/110
G2A-434A AC24	No recommended replacement
G2A-434A AC200/220	MYQ4Z AC200/220
G2A-434A AC100/110	MYQ4Z AC100/110
G2A-4341P DC48	MYQ4Z-02 DC48
G2A-4341P DC24	MYQ4Z-02 DC24
G2A-4341P DC12	No recommended replacement
G2A-4341P DC100	MYQ4Z-02 DC100/110
G2A-4341P AC6	No recommended replacement
G2A-4341P AC200/220	MYQ4Z-02 AC200/220

<b>Product discontinuation</b>	<b>Recommended replacement</b>
G2A-4341P AC100/110	MYQ4Z-02 AC100/110
G2A-432AY-N DC24	MY4ZN DC24 (S)
G2A-432AY-N DC100	MY4ZN DC100/110 (S)
G2A-432AY-N AC200/220	MY4ZN AC200/220 (S)
G2A-432AY-N AC100/110	MY4ZN AC100/110 (S)
G2A-432AY-2 DC24	No recommended replacement
G2A-432AY DC48	MY4Z DC48 (S)
G2A-432AY DC24	MY4Z DC24 (S)
G2A-432AY DC12	MY4Z DC12 (S)
G2A-432AY DC110	MY4Z DC100/110 (S)
G2A-432AY DC100	MY4Z DC100/110 (S)
G2A-432AY AC24	MY4Z AC24 (S)
G2A-432AY AC200/220	MY4Z AC200/220 (S)
G2A-432AY AC100/110	MY4Z AC100/110 (S)
G2A-432A-QC DC12	No recommended replacement
G2A-432A-N-M DC125	No recommended replacement
G2A-432A-N-2 DC48	No recommended replacement
G2A-432A-N1-2 DC24	No recommended replacement
G2A-432A-N1 DC6	MY4ZN-D2 DC6 (S)
G2A-432A-N1 DC48	MY4ZN-D2 DC48 (S)
G2A-432A-N1 DC24	MY4ZN-D2 DC24 (S)
G2A-432A-N1 DC125	MY4ZN-D2 DC125 (S)
G2A-432A-N1 DC12	MY4ZN-D2 DC12 (S)
G2A-432A-N1 DC110	MY4ZN-D2 DC100/110 (S)
G2A-432A-N1 DC100	MY4ZN-D2 DC100/110 (S)
G2A-432A-N DC6	MY4ZN DC6 (S)
G2A-432A-N DC48	MY4ZN DC48 (S)
G2A-432A-N DC24	MY4ZN DC24 (S)
G2A-432A-N DC125	MY4ZN DC125 (S)
G2A-432A-N DC12	MY4ZN DC12 (S)
G2A-432A-N DC110	MY4ZN DC100/110 (S)
G2A-432A-N DC100	MY4ZN DC100/110 (S)
G2A-432A-N AC6	MY4ZN AC6 (S)
G2A-432A-N AC50	MY4ZN AC48/50 (S)
G2A-432A-N AC240	MY4ZN AC220/240 (S)
G2A-432A-N AC24	MY4ZN AC24 (S)
G2A-432A-N AC200/220	MY4ZN AC200/220 (S)
G2A-432A-N AC12	MY4ZN AC12 (S)
G2A-432A-N AC115/120	MY4ZN AC110/120 (S)
G2A-432A-N AC100/110	MY4ZN AC100/110 (S)
G2A-432A-M3 DC24	No recommended replacement
G2A-432A-D6 DC125	No recommended replacement
G2A-432A-D6 DC110	No recommended replacement
G2A-432A-D5-M DC24	No recommended replacement
G2A-432A-D5-M DC110	No recommended replacement
G2A-432A-D DC6	MY4Z-D DC6

<b>Product discontinuation</b>	<b>Recommended replacement</b>
G2A-432A-D DC48	MY4Z-D DC48
G2A-432A-D DC24	MY4Z-D DC24
G2A-432A-D DC12	MY4Z-D DC12
G2A-432A-D DC110	MY4Z-D DC100/110
G2A-432A-D DC100	MY4Z-D DC100/110
G2A-432A-2 DC24	No recommended replacement
G2A-432A DC6	MY4Z DC6 (S)
G2A-432A DC48	MY4Z DC48 (S)
G2A-432A DC24	MY4Z DC24 (S)
G2A-432A DC125	MY4Z DC125 (S)
G2A-432A DC12	MY4Z DC12 (S)
G2A-432A DC110	MY4Z DC100/110 (S)
G2A-432A DC100	MY4Z DC100/110 S)
G2A-432A AC50	MY4Z AC48/50
G2A-432A AC24	MY4Z AC24 (S)
G2A-432A AC200/220	MY4Z AC200/220 (S)
G2A-432A AC12	MY4Z AC12 (S)
G2A-432A AC115/120	MY4Z AC110/120
G2A-432A AC100/110	MY4Z AC100/110 (S)
G2A-4321P-D DC48	No recommended replacement
G2A-4321P-D DC24	No recommended replacement
G2A-4321P-D DC12	No recommended replacement
G2A-4321P-D DC100	No recommended replacement
G2A-4321P DC48	MY4Z-02 DC48
G2A-4321P DC24	MY4Z-02 DC24
G2A-4321P DC12	MY4Z-02 DC12
G2A-4321P DC100	MY4Z-02 DC100/110
G2A-4321P AC6	No recommended replacement
G2A-4321P AC200/220	MY4Z-02 AC200/220
G2A-4321P AC100/110	MY4Z-02 AC100/110

## Cautions on Applying Replacements

- Characteristics and Dimensions of the Recommended Replacement are different from the Discontinued Product.

See the detail of differences on the following pages.

## Reference Documentation

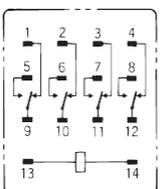
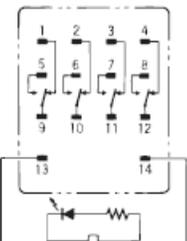
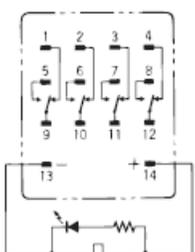
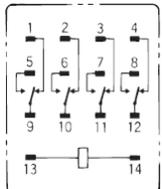
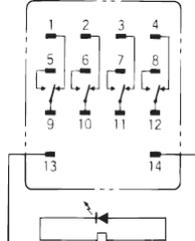
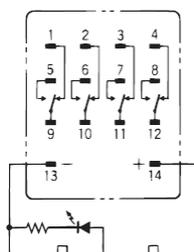
<b>Description</b>	<b>Media</b>	<b>Publication number</b>
G2A-432 Power Relays Datasheet	PDF	<a href="#">G2A_DS_E_2_1</a>
G2A-434 Fully Sealed Power Relays Datasheet	PDF	<a href="#">G2A_434_DS_E-4_1</a>
G2AK Latching Relays Datasheet	PDF	<a href="#">CSM-G2AK-DS-E-4-1</a>

# Detail of Differences

## Body Color

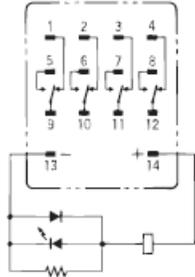
Product discontinuation Model G2A(K) Series	Recommended replacement Model MY Series
<p><b>Body color</b> Clear case</p> 	<p><b>Body color</b> Clear case</p> 

## Wiring Diagrams

Product discontinuation Model G2A(K) Series	Recommended replacement Model MY Series
<p><b>Terminal Arrangement/Internal Connections.</b> Model G2A-432A (Y), G2A-4321P</p>  <p>There is no the polarity of the coil.</p> <p>Model G2A-432A-N AC Type. Color of operation indicator:Red.</p>  <p>There is no the polarity of the coil.</p> <p>Model G2A-432A-N DC6V,12V,24V Type. Color of operation indicator:Green.</p>  <p>There is the polarity of the coil.</p>	<p><b>Terminal Arrangement/Internal Connections.</b> Model MY4Z (-02)</p>  <p>There is no the polarity of the coil.</p> <p>Model MY4ZN AC Type. Color of operation indicator:Red.</p>  <p>There is no the polarity of the coil.</p> <p>Model MY4ZN DC Type. Color of operation indicator:Green.</p>  <p>There is the polarity of the coil.</p>

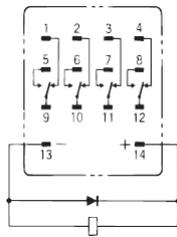
**Product discontinuation  
Model G2A(K) Series**

Model G2A-432A-N DC48V,100V Type.  
Color of operation indicator:Green.



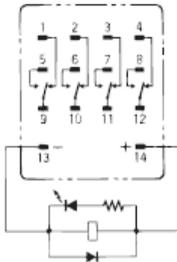
There is the polarity of the coil.

Model G2A-432A-D,G2A-4321P-D



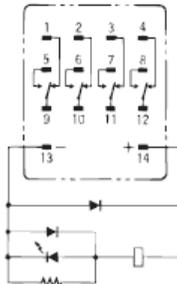
There is the polarity of the coil.

Model G2A-432A-N1 DC6V,12V,24V Type.



There is the polarity of the coil.

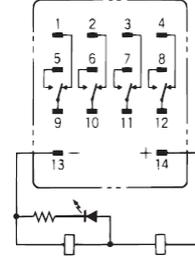
Model G2A-432A-N1 DC48V,100V Type.



There is the polarity of the coil.

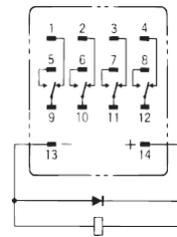
**Recommended replacement  
Model MY Series**

Model MY4ZN DC Type.  
Color of operation indicator:Green.



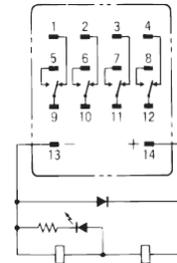
There is the polarity of the coil.

Model MY4Z-D

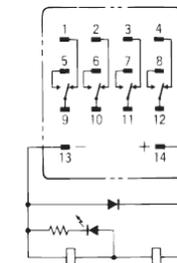


There is the polarity of the coil.

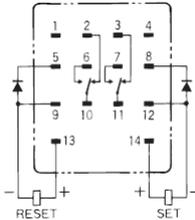
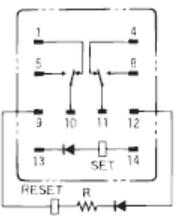
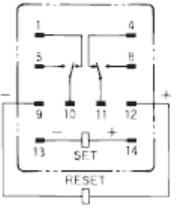
Model MY4ZN-D2



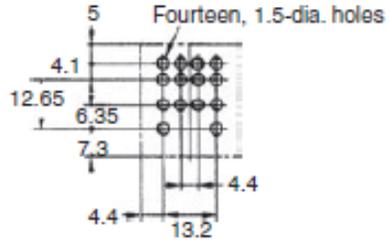
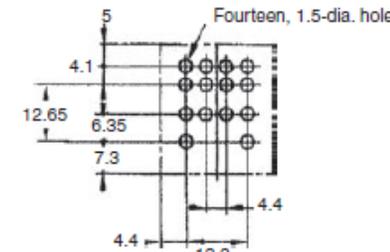
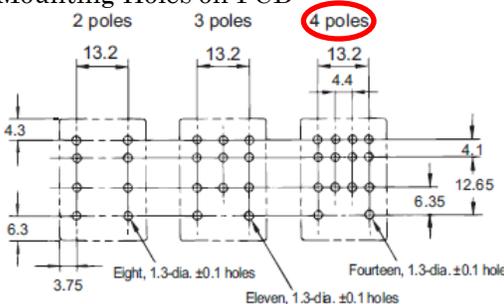
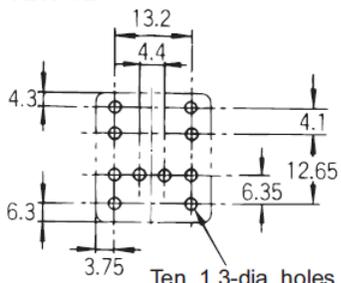
There is the polarity of the coil.

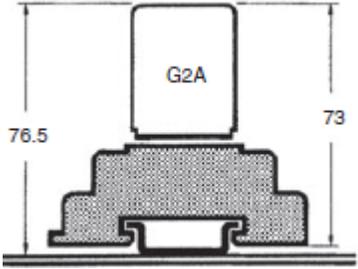
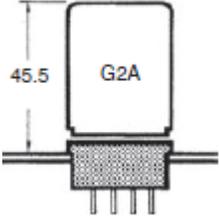
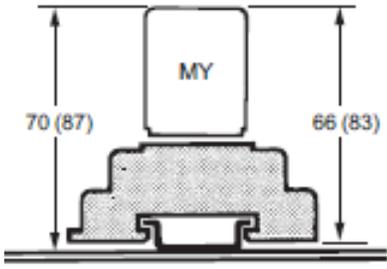
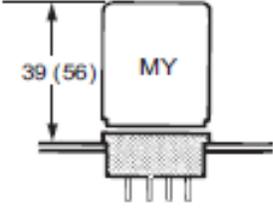


There is the polarity of the coil.

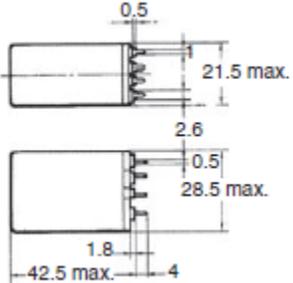
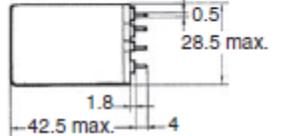
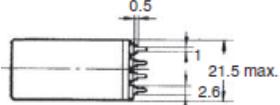
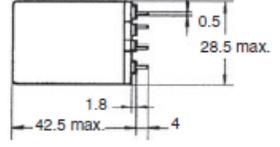
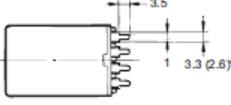
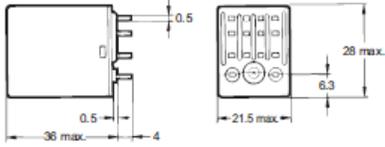
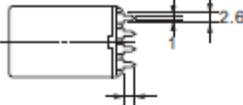
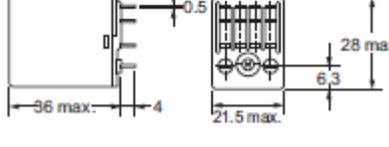
<b>Product discontinuation</b> <b>Model G2A(K) Series</b>	<b>Recommended replacement</b> <b>Model MY Series</b>
<p>Model G2AK-□□□□□</p>  <p>Reset side  DC coil: Connect terminal No.13 to terminalNo.9 or No.13 to No.5.  AC coil: Connect terminal No.13 to terminalNo.5.</p> <p>Set side  DC coil: Connect terminal No.14 to terminalNo.12 or No.14 to No.8.  AC coil: Connect terminal No.14 to terminalNo.8.  Terminals (No.12 and 9) are pulled from the respective junctions between the diode and reset coil. Use these terminals through external connection for selective use or non-use of the diodes as well as for surge prevention</p>	<p>Model MY2K (-02) AC Type</p>  <p>R is a resistor for ampere-turn correction. This resistor is built-in to 50-VAC and higher models.  (The coil has no polarity.)</p> <p>Model MY2K (-02) DC Type</p>  <p>Pay close attention to the set coil and reset coil polarities. If the connections are not correct, unintended operation may occur.</p>

### Mounting Dimensions

<b>Product discontinuation</b> <b>Model G2A(K) Series</b>	<b>Recommended replacement</b> <b>Model MY Series</b>
<p><b>Mounting dimensions</b>  Model G2A-□□□□1P-□  Mounting Holes on PCB</p>  <p>Dimensional tolerances are <math>\pm 0.1\text{mm}</math>.</p> <p>Model G2AK-□□□□1P-□</p>  <p>Dimensional tolerances are <math>\pm 0.1\text{mm}</math>.</p>	<p><b>Mounting dimensions</b>  Model MY4Z-02  Mounting Holes on PCB</p>  <p>Dimensional tolerances are <math>\pm 0.1\text{mm}</math>.</p> <p>Model MY2K-02</p>  <p>Dimensional tolerances are <math>\pm 0.1\text{mm}</math>.</p>

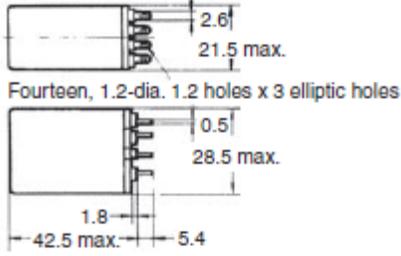
<b>Product discontinuation</b> <b>Model G2A(K) Series</b>	<b>Recommended replacement</b> <b>Model MY Series</b>
<p>Model G2AK-□□□A-□, G2AK-□□□A□            With Front-connecting Socket</p>  <p style="text-align: center;">G2A</p> <p style="text-align: center;">PYF14A</p> <p>With Back-connecting Socket</p>  <p style="text-align: center;">G2A</p> <p style="text-align: center;">PY14</p>	<p>Model MY4Z, MY2K            With Front-connecting Socket</p>  <p style="text-align: center;">MY</p> <p style="text-align: center;">PYF14A</p> <p>With Back-connecting Socket</p>  <p style="text-align: center;">MY</p> <p style="text-align: center;">PY14</p>

## Dimensions

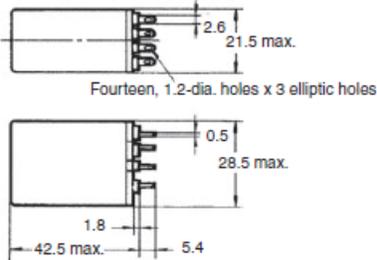
<b>Product discontinuation</b> <b>Model G2A(K) Series</b>	<b>Recommended replacement</b> <b>Model MY Series</b>
<p><b>Dimensions</b>            Model G2A-□□□1P□-□</p>   <p>Model G2AK-□□□1P□</p>  	<p><b>Dimensions</b>            Model MY4Z-02</p>   <p>*Dimensions in parentheses are for the MY4-02.</p> <p>Model MY2K-02</p>  

**Product discontinuation  
Model G2A(K) Series**

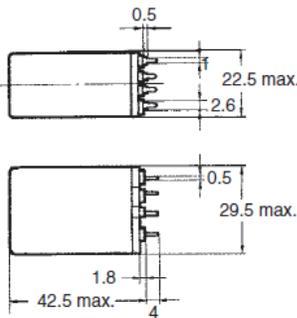
Model G2A-□□□A□-□



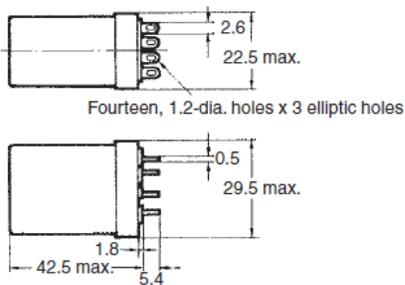
Model G2AK-□□□A□



Model G2A-□□□41P□-□, G2AK-□□□41P□

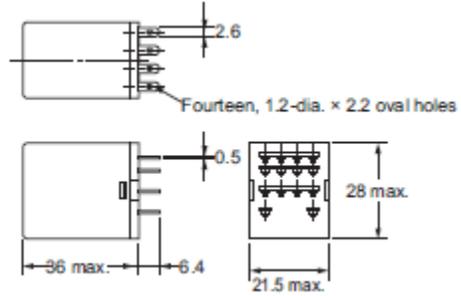


Model G2A-□□□4A□-□, G2AK-□□□4A□

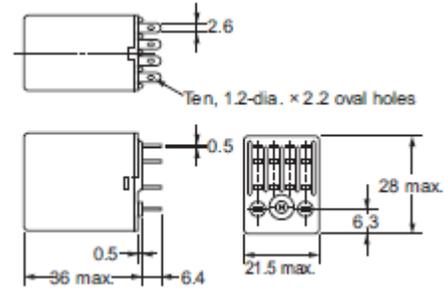


**Recommended replacement  
Model MY Series**

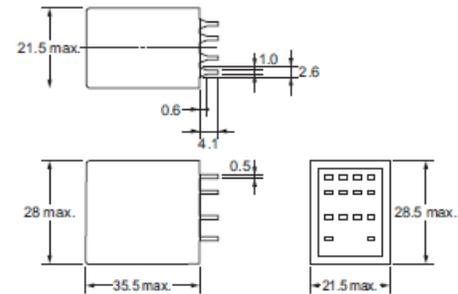
Model MY4Z



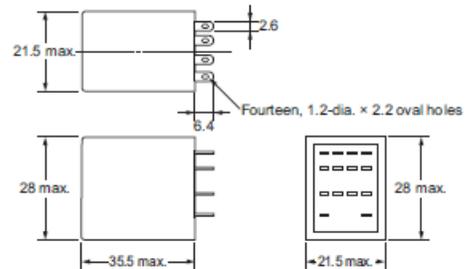
Model MY2K



Model MYQ4(Z)-02



Model MYQ4(Z)



## Characteristics

Item	Product discontinuation Model G2A-□□2□□-□	Recommended replacement Model MY4Z(-02)
Contact arrangement	4C	4C
Contact mechanism	Crossbar bifurcated	Bifurcated
Contact material	Movable: AgAu-clad AgPd Fixed: AgPd	MY4Z: Au-clad Ag alloy MY4Z-02: Au plating Ag
Contact resistance	100mΩ max. (0.1A at 5VDC using the voltage drop method)	50mΩ max. (1A at 5VDC using the voltage drop method)
Operate time	15ms max.	20ms max.
Release time	15ms max. (30ms max.) ( ):Built-in diode type	20ms max.
Rating load (Resistive load) φ=1 AC	AC110V/0.3A	AC220V/3A
Rating load (Resistive load) L/R=0 DC	DC24V/0.5A	DC24V/3A
Rating load (Inductive load) φ=0.4 AC	AC110V/0.2A	AC220V/0.8A
Rating load (Inductive load) L/R=7ms DC	DC24V/0.3A	DC24V/1.5A
Max. switching current (Resistive load) φ=1 AC	1A	3A
Max. switching current (Resistive load) L/R=0 DC	3A	3A
Max. switching current (Inductive load) φ=0.4 AC	0.75A	3A
Max. switching current (Inductive load) L/R=7ms DC	1.5A	3A
Endurance Mechanical Frequency 18,000 operating/hour	100,000,000 operations min.	20,000,000 operations min.
Endurance Electrical Frequency 1,800 operating/hour	5,000,000 operations min.	100,000 operations min.
Error rate (level P) (Reference value)	1mA at 100mVDC Frequency 1,800 operating/hour	0.1mA at 1VDC Frequency 7,200 operating/hour
Dielectric strength Between Coil and contact	1,500VAC	2,000VAC
Dielectric strength Between contacts different polarities	1,500VAC	2,000VAC
Dielectric strength Between contacts same polarities	700VAC	1,000VAC
Ambient temperature	-10°C~+40°C	-55°C~+70°C (+60°C) ( ):Built-in diode type
Enclosure Construction	Casing	Casing
Adaptation Socket	PYF14A, PY14	PYF14A, PY14

Item	Product discontinuation Model G2A-□□4□□-□	Recommended replacement Model MYQ4Z
Contact arrangement	4C	4C
Contact mechanism	Crossbar bifurcated	Bifurcated
Contact material	Movable: AgAu-clad AgPd Fixed: AgPd	Au plating Ag
Contact resistance	100mΩ max. (0.1A at 5VDC using the voltage drop method)	50mΩ max. (1A at 5VDC using the voltage drop method)
Operate time	15ms max.	20ms max.
Release time	15ms max. (30ms max.) ( ):Built-in diode type	20ms max.
Rating load(Resistive load) φ=1 AC	AC110V/0.3A	AC220V/1A
Rating load(Resistive load) L/R=0 DC	DC24V/0.5A	DC24V/1A
Rating load(Inductive load) φ=0.4 AC	AC110V/0.2A	AC220V/0.5A
Rating load(Inductive load) L/R=7ms DC	DC24V/0.3A	DC24/0.5A
Max. switching current (Resistive load) φ=1 AC	0.7A	1A
Max. switching current (Resistive load) L/R=0 DC	2A	1A
Max. switching current (Inductive load) φ=0.4 AC	0.5A	1A
Max. switching current (Inductive load) L/R=7ms DC	1A	1A
Endurance Mechanical Frequency 18,000 operating/hour	100,000,000 operations min.	5,000,000 operations min.
Endurance Electrical Frequency 1,800 operating/hour	5,000,000 operations min.	100,000 operations min.
Error rate(level P) (Reference value)	1mA at 100mVDC Frequency 1,800 operating/hour	0.1mA at 1VDC Frequency 7,200 operating/hour
Dielectric strength Between Coil and contact	1,500VAC	1,500VAC
Dielectric strength Between contacts different polarities	1,500VAC	1,500VAC
Dielectric strength Between contacts same polarities	700VAC	1,000VAC
Ambient temperature	-10°C~+40°C	-55°C~+60°C
Enclosure Construction	Fully sealed	Fully sealed
Adaptation Socket	PYF14A, PY14	PYF14A, PY14

Item	Product discontinuation Model G2AK-□□□□□	Recommended replacement Model MY2K
Contact arrangement	2C	2C
Contact mechanism	Crossbar bifurcated	Single
Contact material	Movable: AgAu-clad AgPd Fixed: AgPd	Au plating Ag
Contact resistance	100mΩ max. (0.1A at 5VDC using the voltage drop method)	50mΩ max. (1A at 5VDC using the voltage drop method)
Set time	AC: 25ms max. DC: 15ms max.	AC: 30ms max. DC: 15ms max.
Reset time	AC: 25ms max. DC: 15ms max.	AC: 30ms max. DC: 15ms max.

Rating load(Resistive load) φ=1 AC	AC110V/0.3A	AC220V/3A
Rating load(Resistive load) L/R=0 DC	DC24V/0.5A	DC24V/3A
Rating load(Inductive load) φ=0.4 AC	AC110V/0.2A	AC220V/0.8A
Rating load(Inductive load) L/R=7ms DC	DC24V/0.3A	DC24V/1.5A
Max. switching current (Resistive load) φ=1 AC	1A	3A
Max. switching current (Resistive load) L/R=0 DC	3A	3A
Max. switching current (Inductive load) φ=0.4 AC	0.75A	3A
Max. switching current (Inductive load) L/R=7ms DC	1.5A	3A
Endurance Mechanical Frequency 18,000 operating/hour	100,000,000 operations min.	100,000,000 operations min.
Endurance Electrical Frequency 1,800 operating/hour	5,000,000 operations min.	200,000 operations min.
Error rate(level P) (Reference value)	1mA at 100mVDC Frequency 1,800 operating/hour	1mA at 1VDC Frequency 7,200 operating/hour
Dielectric strength Between Coil and contact	1,500VAC	1,500VAC
Dielectric strength Between contacts different polarities	1,500VAC	1,500VAC
Dielectric strength Between contacts same polarities	700VAC	1,000VAC
Ambient temperature	-10°C~+40°C	-55°C~+60°C
Enclosure Construction	Casing	Casing
Adaptation Socket	PYF14A, PY14	PYF14A, PY14

## Operating Ratings

Product discontinuation Model G2A-□□□□□-□	Recommended replacement Model MY Series
<b>Operation ratings</b> Must operate: 80% max. Must release(AC): 30% min. Must release(DC): 10% min Max. voltage: 110% Power consumption: Approx. 1.4VA (AC)  Power consumption: Approx. 1.1W (DC)	<b>Operation ratings</b> Must operate: 80% max. Must release(AC): 30% min. Must release(DC): 10% min Max. voltage: 110% Power consumption: Approx. 1.0VA~1.2VA (AC12V, AC24V) Power consumption: Approx. 0.9VA~1.1VA (AC other than those above) Power consumption: Approx. 0.9W (DC)

Product discontinuation Model G2AK-□□□□□	Recommended replacement Model MYK Series
<b>Operation ratings</b> Set voltage: 80% max. Reset voltage: 80% max. Max. voltage: 110% Power consumption: Approx. 1.6VA~2.0VA (Set coil AC) Power consumption: Approx. 0.5VA~1.2VA (Reset coil AC) Power consumption: Approx. 2.0W~2.2W (Set coil DC) Power consumption: Approx. 1.0W~1.2W (Reset coil DC)	<b>Operation ratings</b> Set voltage: 80% max. Reset voltage: 80% max. Max. voltage: 110% Power consumption: Approx. 0.6VA~0.9VA (Set coil AC) Power consumption: Approx. 0.2VA~0.5VA (Reset coil AC) Power consumption: Approx. 1.3W (Set coil DC) Power consumption: Approx. 0.6W (Reset coil DC)

## Operation Methods

Product discontinuation Model G2A-□□□□□-□	Recommended replacement Model MY Series
No difference	

Product discontinuation Model G2AK-□□□□□	Recommended replacement Model MYK Series
No difference	

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