

Discontinuation Notice of PCB Power Relays G5LA Series.

Product Discontinuation

PCB Power Relays



Model G5LA Series
Model G5LA-1A Series DC12, 24



Recommended Replacement

PCB Power Relays

Model G5Q Series
Model G5Q-1A Series DC12, 24
Model G5NB-1A4-EL-HA

[Discontinuation date]

The end of March, 2016

[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	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
Model G5Q series	**	--	--	--	*	*	**
Model G5NB-1A4-EL-HA	--	--	--	--	*	*	**

** : Compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

[Product Discontinuation and recommended replacement]

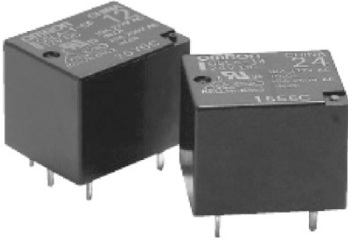


Product discontinuation	Recommended replacement
G5LA-1-SP DC24 BY OMZ	G5Q-1 DC24 BY OMZ
G5LA-1-SP DC12 BY OMZ	G5Q-1 DC12 BY OMZ
G5LA-1-HA-SP DC24 BY OMZ	G5Q-1 DC24 BY OMZ
G5LA-1-HA-SP DC12 BY OMZ	G5Q-1 DC12 BY OMZ
G5LA-1-HA DC24 BY OMZ/C	G5Q-1 DC24 BY OMZ/C
G5LA-1-HA DC24 BY OMZ	G5Q-1 DC24 BY OMZ
G5LA-1-HA DC12 BY OMZ/C	G5Q-1 DC12 BY OMZ/C
G5LA-1-HA DC12 BY OMZ	G5Q-1 DC12 BY OMZ
G5LA-1-E-CF-SP1 DC12 BY OMZ	G5Q-1-EU DC12 BY OMZ
G5LA-1-E-CF-SP DC12 BY OMZ	G5Q-1-EU DC12 BY OMZ
G5LA-1-E-CF-HA-SP1 DC12 BY OMZ	G5Q-1-EU DC12 BY OMZ
G5LA-1-E-CF-HA-SP DC12 BY OMZ	G5Q-1-EU DC12 BY OMZ
G5LA-1-E-CF-HA DC12 BY OMZ	G5Q-1-EU DC12 BY OMZ
G5LA-1-E-CF DC9 BY OMZ	G5Q-1-EU DC9 BY OMZ
G5LA-1-E-CF DC5 BY OMZ	G5Q-1-EU DC5 BY OMZ
G5LA-1-E-CF DC48 BY OMZ	No Recommended Replacement
G5LA-1-E-CF DC24 BY OMZ	G5Q-1-EU DC24 BY OMZ
G5LA-1-E-CF DC12 BY OMZ/C	G5Q-1-EU DC12 BY OMZ/C
G5LA-1-E-CF DC12 BY OMZ	G5Q-1-EU DC12 BY OMZ
G5LA-1-E DC9 BY OMZ	G5Q-1-EU DC9 BY OMZ
G5LA-1-E DC5 BY OMZ	G5Q-1-EU DC5 BY OMZ
G5LA-1-E DC48 BY OMZ	No Recommended Replacement
G5LA-1-E DC24 BY OMZ/C	G5Q-1-EU DC24 BY OMZ/C
G5LA-1-E DC24 BY OMZ	G5Q-1-EU DC24 BY OMZ
G5LA-1-E DC12 BY OMZ	G5Q-1-EU DC12 BY OMZ
G5LA-1-CF-HA-SP1 DC24 BY OMZ	G5Q-1 DC24 BY OMZ
G5LA-1-CF-HA DC24 BY OMZ/C	G5Q-1 DC24 BY OMZ/C
G5LA-1-CF-HA DC24 BY OMZ	G5Q-1 DC24 BY OMZ
G5LA-1-CF-HA DC12 BY OMZ/C	G5Q-1 DC12 BY OMZ/C
G5LA-1-CF-HA DC12 BY OMZ	G5Q-1 DC12 BY OMZ
G5LA-1-CF DC9 BY OMZ/C	G5Q-1 DC9 BY OMZ/C
G5LA-1-CF DC9 BY OMZ	G5Q-1 DC9 BY OMZ
G5LA-1-CF DC5 BY OMZ/C	G5Q-1 DC5 BY OMZ/C
G5LA-1-CF DC5 BY OMZ	G5Q-1 DC5 BY OMZ
G5LA-1-CF DC48 BY OMZ/C	No Recommended Replacement
G5LA-1-CF DC48 BY OMZ	G5Q-1 DC48 BY OMZ
G5LA-1-CF DC24 BY OMZ/C	G5Q-1 DC24 BY OMZ/C
G5LA-1-CF DC24 BY OMZ	G5Q-1 DC24 BY OMZ
G5LA-1-CF DC12 BY OMZ/C	G5Q-1 DC12 BY OMZ/C
G5LA-1-CF DC12 BY OMZ	G5Q-1 DC12 BY OMZ
G5LA-1A-SP DC24 BY OMZ	G5Q-1A DC24 BY OMZ
	G5NB-1A4-EL-HA DC24
G5LA-1A-SP DC12 BY OMZ	G5Q-1A DC12 BY OMZ
	G5NB-1A4-EL-HA DC12
G5LA-1A-HA-SP DC12 BY OMZ	G5Q-1A DC12 BY OMZ
	G5NB-1A4-EL-HA DC12
G5LA-1A-CF DC9 BY OMZ/C	G5Q-1A DC9 BY OMZ/C

Product discontinuation	Recommended replacement
G5LA-1A-CF DC9 BY OMZ	G5Q-1A DC9 BY OMZ
G5LA-1A-CF DC5 BY OMZ/C	G5Q-1A DC5 BY OMZ/C
G5LA-1A-CF DC5 BY OMZ	G5Q-1A DC5 BY OMZ
G5LA-1A-CF DC48 BY OMZ/C	No Recommended Replacement
G5LA-1A-CF DC48 BY OMZ	G5Q-1A DC48 BY OMZ
G5LA-1A-CF DC24 BY OMZ/C	G5Q-1A DC24 BY OMZ/C
	G5NB-1A4-EL-HA DC24
G5LA-1A-CF DC24 BY OMZ	G5Q-1A DC24 BY OMZ
	G5NB-1A4-EL-HA DC24
G5LA-1A-CF DC12 BY OMZ/C	G5Q-1A DC12 BY OMZ/C
	G5NB-1A4-EL-HA DC12
G5LA-1A-CF DC12 BY OMZ	G5Q-1A DC12 BY OMZ
	G5NB-1A4-EL-HA DC12
G5LA-1A4-CF DC9 BY OMZ/C	G5Q-1A4 DC9 BY OMZ/C
G5LA-1A4-CF DC9 BY OMZ	G5Q-1A4 DC9 BY OMZ
G5LA-1A4-CF DC5 BY OMZ/C	G5Q-1A4 DC5 BY OMZ/C
G5LA-1A4-CF DC5 BY OMZ	G5Q-1A4 DC5 BY OMZ
G5LA-1A4-CF DC48 BY OMZ/C	No Recommended Replacement
G5LA-1A4-CF DC48 BY OMZ	G5Q-1A4 DC48 BY OMZ
G5LA-1A4-CF DC24 BY OMZ/C	G5Q-1A4 DC24 BY OMZ/C
	G5NB-1A4-EL-HA DC24
G5LA-1A4-CF DC24 BY OMZ	G5Q-1A4 DC24 BY OMZ
	G5NB-1A4-EL-HA DC24
G5LA-1A4-CF DC12 BY OMZ/C	G5Q-1A4 DC12 BY OMZ/C
	G5NB-1A4-EL-HA DC12
G5LA-1A4-CF DC12 BY OMZ	G5Q-1A4 DC12 BY OMZ
	G5NB-1A4-EL-HA DC12
G5LA-1A4 DC9 BY OMZ/C	G5Q-1A4 DC9 BY OMZ/C
G5LA-1A4 DC9 BY OMZ	G5Q-1A4 DC9 BY OMZ
G5LA-1A4 DC5 BY OMZ/C	G5Q-1A4 DC5 BY OMZ/C
G5LA-1A4 DC5 BY OMZ	G5Q-1A4 DC5 BY OMZ
G5LA-1A4 DC48 BY OMZ/C	No Recommended Replacement
G5LA-1A4 DC48 BY OMZ	G5Q-1A4 DC48 BY OMZ
G5LA-1A4 DC36 BY OMZ	No Recommended Replacement
G5LA-1A4 DC24 BY OMZ/C	G5Q-1A4 DC24 BY OMZ/C
	G5NB-1A4-EL-HA DC24
G5LA-1A4 DC24 BY OMZ	G5Q-1A4 DC24 BY OMZ
	G5NB-1A4-EL-HA DC24
G5LA-1A4 DC12 BY OMZ/C	G5Q-1A4 DC12 BY OMZ/C
	G5NB-1A4-EL-HA DC12
G5LA-1A4 DC12 BY OMZ	G5Q-1A4 DC12 BY OMZ
	G5NB-1A4-EL-HA DC12
G5LA-1A DC9 BY OMZ/C	G5Q-1A DC9 BY OMZ/C
G5LA-1A DC9 BY OMZ	G5Q-1A DC9 BY OMZ
G5LA-1A DC5 BY OMZ/C	G5Q-1A DC5 BY OMZ/C
G5LA-1A DC5 BY OMZ	G5Q-1A DC5 BY OMZ
G5LA-1A DC48 BY OMZ/C	No Recommended Replacement
G5LA-1A DC48 BY OMZ	G5Q-1A DC48 BY OMZ

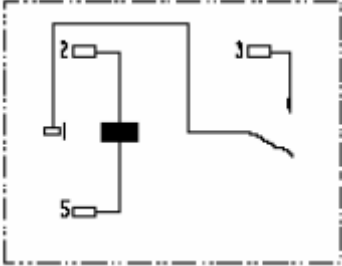
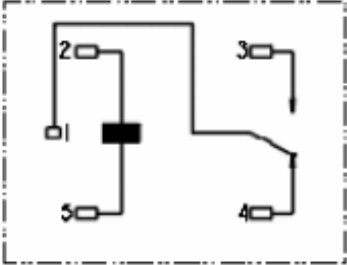
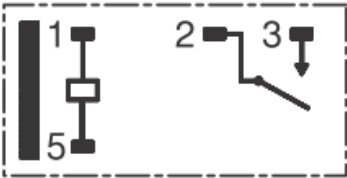
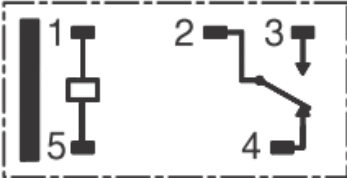
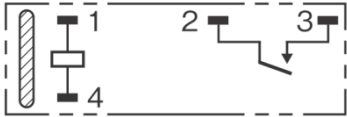
Product discontinuation	Recommended replacement
G5LA-1A DC24 BY OMZ/C	G5Q-1A DC24 BY OMZ/C
	G5NB-1A4-EL-HA DC24
G5LA-1A DC24 BY OMZ	G5Q-1A DC24 BY OMZ
	G5NB-1A4-EL-HA DC24
G5LA-1A DC18 BY OMZ	G5Q-1A DC18 BY OMZ
G5LA-1A DC12 BY OMZ/C	G5Q-1A DC12 BY OMZ/C
	G5NB-1A4-EL-HA DC12
G5LA-1A DC12 BY OMZ	G5Q-1A DC12 BY OMZ
	G5NB-1A4-EL-HA DC12
G5LA-14-SP DC12 BY OMZ/C	G5Q-14 DC12 BY OMZ/C
G5LA-14-SP DC12 BY OMZ	G5Q-14 DC12 BY OMZ
G5LA-14-E-CF DC9 BY OMZ	G5Q-14-EU DC9 BY OMZ
G5LA-14-E-CF DC5 BY OMZ	G5Q-14-EU DC5 BY OMZ
G5LA-14-E-CF DC48 BY OMZ	No Recommended Replacement
G5LA-14-E-CF DC24 BY OMZ	G5Q-14-EU DC24 BY OMZ
G5LA-14-E-CF DC12 BY OMZ	G5Q-14-EU DC12 BY OMZ
G5LA-14-E DC9 BY OMZ	G5Q-14-EU DC9 BY OMZ
G5LA-14-E DC5 BY OMZ	G5Q-14-EU DC5 BY OMZ
G5LA-14-E DC48 BY OMZ	No Recommended Replacement
G5LA-14-E DC24 BY OMZ	G5Q-14-EU DC24 BY OMZ
G5LA-14-E DC12 BY OMZ/C	G5Q-14-EU DC12 BY OMZ/C
G5LA-14-E DC12 BY OMZ	G5Q-14-EU DC12 BY OMZ
G5LA-14-CF DC9 BY OMZ/C	G5Q-14 DC9 BY OMZ/C
G5LA-14-CF DC9 BY OMZ	G5Q-14 DC9 BY OMZ
G5LA-14-CF DC5 BY OMZ/C	G5Q-14 DC5 BY OMZ/C
G5LA-14-CF DC5 BY OMZ	G5Q-14 DC5 BY OMZ
G5LA-14-CF DC48 BY OMZ/C	G5Q-14-DC48 BY OMZ/C
G5LA-14-CF DC48 BY OMZ	G5Q-14 DC48 BY OMZ
G5LA-14-CF DC24 BY OMZ/C	G5Q-14-DC24 BY OMZ/C
G5LA-14-CF DC24 BY OMZ	G5Q-14 DC24 BY OMZ
G5LA-14-CF DC12 BY OMZ/C	G5Q-14-DC12 BY OMZ/C
G5LA-14-CF DC12 BY OMZ	G5Q-14 DC12 BY OMZ
G5LA-14-AP DC9 BY OMZ	G5Q-14 DC9 BY OMZ
G5LA-14-AP DC5 BY OMZ	G5Q-14 DC5 BY OMZ
G5LA-14-AP DC24 BY OMZ	G5Q-14 DC24 BY OMZ
G5LA-14-AP DC12 BY OMZ	G5Q-14 DC12 BY OMZ
G5LA-14 DC9 BY OMZ/C	G5Q-14 DC9 BY OMZ/C
G5LA-14 DC9 BY OMZ	G5Q-14 DC9 BY OMZ
G5LA-14 DC6 BY OMZ	No Recommended Replacement
G5LA-14 DC5 BY OMZ/C	G5Q-14 DC5 BY OMZ/C
G5LA-14 DC5 BY OMZ	G5Q-14 DC5 BY OMZ
G5LA-14 DC48 BY OMZ/C	G5Q-14 DC48 BY OMZ/C
G5LA-14 DC48 BY OMZ	G5Q-14 DC48 BY OMZ
G5LA-14 DC24 BY OMZ/C	G5Q-14 DC24 BY OMZ/C
G5LA-14 DC24 BY OMZ	G5Q-14 DC24 BY OMZ
G5LA-14 DC18 BY OMZ	G5Q-14 DC18 BY OMZ
G5LA-14 DC12 BY OMZ/C	G5Q-14 DC12 BY OMZ/C
G5LA-14 DC12 BY OMZ	G5Q-14 DC12 BY OMZ

Product discontinuation	Recommended replacement
G5LA-1 DC9 BY OMZ/C	G5Q-1 DC9 BY OMZ/C
G5LA-1 DC9 BY OMZ	G5Q-1 DC9 BY OMZ
G5LA-1 DC5 BY OMZ/C	G5Q-1 DC5 BY OMZ/C
G5LA-1 DC5 BY OMZ	G5Q-1 DC5 BY OMZ
G5LA-1 DC48 BY OMZ/C	No Recommended Replacement
G5LA-1 DC48 BY OMZ	G5Q-1 DC48 BY OMZ
G5LA-1 DC24 BY OMZ/C	G5Q-1 DC24 BY OMZ/C
G5LA-1 DC24 BY OMZ	G5Q-1 DC24 BY OMZ
G5LA-1 DC12 BY OMZ/C	G5Q-1 DC12 BY OMZ/C
G5LA-1 DC12 BY OMZ	G5Q-1 DC12 BY OMZ

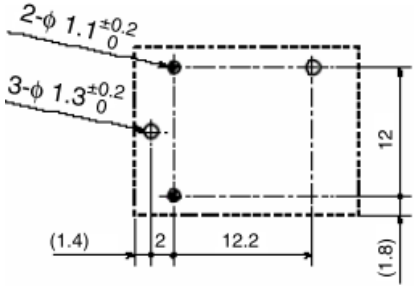
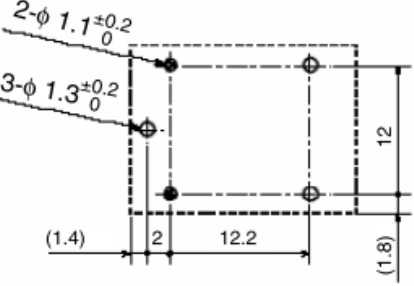
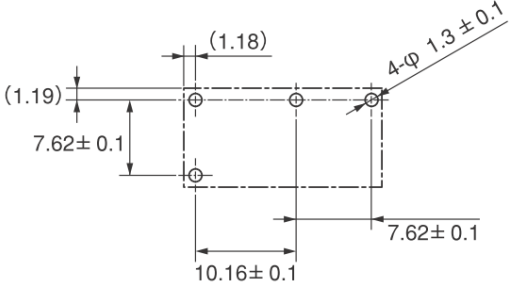
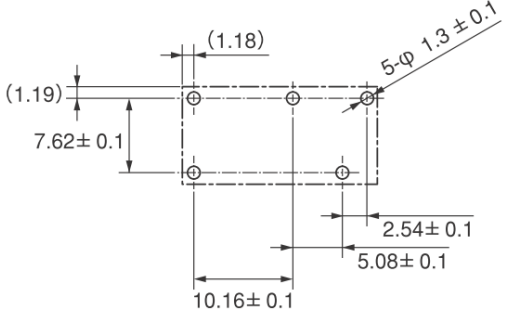
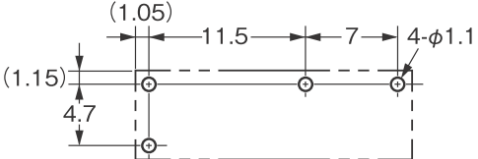
[Body color]

<p>Product discontinuation Model G5LA Series</p>	<p>Recommendable replacement Model G5Q Series Model G5NB-1A4-EL-HA</p>
<p>Black</p> 	<p>Model G5Q: Black</p>  <p>Model G5NB-1A4-EL-HA: White</p> 

[Wire connection]

<p>Product discontinuation Model G5LA Series</p>	<p>Recommendable replacement Model G5Q Series Model G5NB-1A4-EL-HA</p>
<p>Model G5LA series (BOTTOM VIEW) (No coil polarity)</p> <p>1A Type</p>  <p>1C Type</p> 	<p>Model G5Q Series (BOTTOM VIEW) (No coil polarity)</p> <p>1A Type</p>  <p>1C Type</p>  <p>Model G5NB-1A4-EL-HA (BOTTOM VIEW) (No coil polarity)</p> 

[Mounting dimensions]

<p>Product discontinuation Model G5LA Series</p>	<p>Recommendable replacement Model G5Q Series Model G5NB-1A4-EL-HA</p>
<p>Model G5LA series (BOTTOM VIEW) Tolerance ± 0.1 mm</p> <p>1A Type</p>  <p>1C Type</p> 	<p>Model G5Q Series (BOTTOM VIEW) Tolerance ± 0.1 mm</p> <p>1A Type</p>  <p>1C Type</p>  <p>Model G5NB-1A4-EL-HA (BOTTOM VIEW) Tolerance ± 0.1 mm</p> 

[Dimensions]

<p align="center">Product discontinuation Model G5LA Series</p>	<p align="center">Recommendable replacement Model G5Q Series Model G5NB-1A4-EL-HA</p>
<p>Model G5LA series</p> <p>1A Type</p> <p align="center">*Average value</p> <p>1C Type</p> <p align="center">*Average value</p>	<p>Model G5Q Series</p> <p>1A Type</p> <p>1C Type</p> <p align="center">*Average value</p> <p>Model G5NB-1A4-EL-HA</p> <p align="center">*Average value</p>

[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
G5LA Series	5	72	69.4	75% max.	10% min.	Approx. 0.36	170% (at 23°C)
	9	40	225				
	12	30	400				
	24	15	1600				
	48	10	4800			Approx. 0.48	
G5Q Series (1A type)	5	40	125	75% max.	5% min.	Approx. 0.2	190% (at 23°C)
	9	22.2	405				
	12	16.7	720				
	24	8.3	2880				
	48	4.1	11520				
G5Q Series (1C type)	5	80	63	75% max.	5% min.	Approx. 0.4	190% (at 23°C)
	9	44.4	202				
	12	33.3	360				
	24	16.7	1440				
	48	8.3	5760				
G5NB-1A4-EL-HA	12	16.7	720	75% max.	10% min.	Approx. 0.2	160% (at 23°C)
	24	8.3	2880				

■ Contact Ratings

Items	Product discontinuation Model G5LA Series			Recommendable replacement Model G5Q Series		Recommendable replacement Model G5Q-EU Series		Recommendable replacement Model G5NB-1A4- EL-HA
	1A	1C	High Capacity	1A	1C	1A	1C	
Contact Form	1A	1C	High Capacity	1A	1C	1A	1C	1A
Rated load (resistive)	10 A 250 VAC (NO) 10 A 24 VDC (NO)	10 A 250 VAC (NO) 10 A 24 VDC (NO) 5 A 125 VAC (NO/NC) 5 A 24 VDC (NO/NC)	10 A 250 VAC (NO) 10 A 24 VDC (NO) 5 A 250 VAC (NO/NC) 5 A 24 VDC (NO/NC)	10 A 125 VAC 3 A 125 VAC 3 A 250 VAC 5 A 30 VDC	10 A 125 VAC (NO) 3 A 125 VAC (NO) 3 A 250 VAC (NO) 5 A 30 VDC (NO) 3 A 125 VAC (NC) 3 A 250 VAC (NC) 3 A 30 VDC (NC)	10 A 250 VAC 3 A 250 VAC 3 A 125 VAC 5 A 30 VDC	10 A 250 VAC (NO) 3 A 250 VAC (NO) 3 A 125 VAC (NO) 5 A 30 VDC (NO) 3 A 250 VDC (NC) 3 A 125 VDC (NC) 3 A 30 VDC (NC)	5 A 250 VAC 7 A 250 VAC 5 A 30 VDC
Rated carry current	10 A	5 A	10 A	10 A (NO) 3 A (NC)		AC: 10 A (NO) 3 A (NC) DC: 5 A (NO) 3 A (NC)		7 A
Max. switching voltage	250 VAC 24 VDC			277 VAC 30 VDC		277 VAC 30 VDC		250 VAC 30 VDC
Max. switching current	10 A	10 A (NO) 5 A (NC)	10 A (NO) 5 A (NC)	AC: 10 A (NO) 3 A (NC) DC: 5 A (NO) 3 A (NC)		AC: 10 A (NO) 3 A (NC) DC: 5 A (NO) 3 A (NC)		AC: 7 A DC: 5 A

■ Characteristic

Items	Product discontinuation Model G5LA Series	Recommendable replacement Model G5Q Series	Recommendable replacement Model G5NB-1A4-EL-HA
Contact resistance	100 mΩ max.	100 mΩ max.	100 mΩ max.
Operate time	10 ms max.	10 ms max.	10 ms max.
Release time	5 ms max.	5 ms max.	10 ms max.
Insulation resistance	1,000 MΩ min.	1,000 MΩ min.	1,000 MΩ min.
Dielectric strength	[Coil and contacts] 2,000 VAC 1 min [Contacts of same polarity] 750 VAC 1 min	[Coil and contacts] 4,000 VAC 1 min [Contacts of same polarity] 1,000 VAC 1 min	[Coil and contacts] 4,000 VAC 1 min [Contacts of same polarity] 750 VAC 1 min
Vibration resistance	[Destruction] 10 to 55 Hz 1.5 mm double amplitude [Malfunction] 10 to 55 Hz, 1.5 mm double amplitude	[Destruction] 10 to 55 to 10 Hz, (1.5 mm double amplitude) [Malfunction] 10 to 55 to 10 Hz, (1.5 mm double amplitude)	[Destruction] 10 to 55 to 10 Hz, (1.5 mm double amplitude) [Malfunction] 10 to 55 to 10 Hz, (1.5 mm double amplitude)
Shock resistance	[Destruction] 1,000 m/s ² [Malfunction] 100 m/s ²	[Destruction] 1,000 m/s ² [Malfunction] 100 m/s ²	[Destruction] 1,000 m/s ² [Malfunction] 100 m/s ²
Endurance	[Mechanical] 10,000,000 operations min. (18,000 operations/hr) [Electrical] Rated load: 100,000 operations average. (1,800 operations/hr)	[Mechanical] 10,000,000 operations min. (18,000 operations/hr) [Electrical] (NO) 10 A 125 VAC 50,000 operations min. (900 operations/hr) 3 A 125 VAC 200,000 operations min. (1,800 operations/hr) 3 A 250 VAC 100,000 operations min. (1,800 operations/hr) 5 A 30 VDC 100,000 operations min. (1,800 operations/hr) 10 A 250 VAC (G5Q-EU only) 25,000 operations min. (900 operations/hr) (NC) 3 A 125 VAC 200,000 operations min. (1,800 operations/hr) 3 A 250 VAC 100,000 operations min. (1,800 operations/hr) 3 A 30 VDC 100,000 operations min. (1,800 operations/hr)	[Mechanical] 5,000,000 operations min. (18,000 operations/hr) [Electrical] 5 A 250 VAC 200,000 operations min. (900 operations/hr) 7 A 250 VAC 50,000 operations min. (900 operations/hr) 5 A 30 VDC 100,000 operations min. (900 operations/hr)
Ambient temperature	-40°C to +85°C (with no icing)	-40°C to 105°C (with no icing) -40°C to 85°C (with no icing) (G5Q-EU type only)	-40°C to +85°C (with no icing)
Ambient humidity	5 to 85%RH	5 to 85%RH	5 to 85%RH
Weight	7.5 g	6.5 g	4 g

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

[Operation methods]

Product discontinuation Model G5LA Series	Recommendable replacement Model G5Q Series Model G5NB-1A4-EL-HA
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> No difference </div>	

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.