

Product Discontinuation Notices

PCB Power Relays

Issue Date March 1, 2017

No. 2017032CE(ON)

Discontinuation Notice of PCB Power Relay G5SB series.

Product Discontinuation PCB Power Relays

Recommended Replacement

PCB Power Relays



Model G5SB series



Model G5Q series

[Final order entry date]

The end of March, 2018

[Date of The Last Shipping]

The end of June, 2018

[Caution on recommended replacement]

This replacement is compatible. But there are some differences of the rating, and characteristic. Please confirm the compatibility.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimen- sions	Wire connection	Mounting Dimensions	Charac- teristics	Operation ratings	Operation methods
G5Q-1A	**	**	**	**	*	*	**
G5Q-1A4	**	**	**	**	*	*	**
G5Q-1	**	**	**	**	*	**	**
G5Q-14	**	**	**	**	*	**	**

^{** :} Compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
G5SB-1A DC5 BY OMI	G5Q-1A DC5 BY OMZ
G5SB-1A DC5 BY OMI (N)	G5Q-1A DC5 BY OMZ
G5SB-1A DC9 BY OMI	G5Q-1A DC9 BY OMZ
G5SB-1A DC9 BY OMI (N)	G5Q-1A DC9 BY OMZ
G5SB-1A DC12 BY OMI	G5Q-1A DC12 BY OMZ
G5SB-1A DC12 BY OMI (N)	G5Q-1A DC12 BY OMZ
G5SB-1A DC24 BY OMI	G5Q-1A DC24 BY OMZ
G5SB-1A DC24 BY OMI (N)	G5Q-1A DC24 BY OMZ
G5SB-1A DC48 BY OMI	G5Q-1A DC48 BY OMZ

^{*}This document had been distributed by Omron Electronic Components Europe BV.

OMRON

Product discontinuation	Recommended replacement
G5SB-1A DC48 BY OMI (N)	G5Q-1A DC48 BY OMZ
G5SB-1A4 DC5 BY OMI	G5Q-1A4 DC5 BY OMZ
G5SB-1A4 DC5 BY OMI (N)	G5Q-1A4 DC5 BY OMZ
G5SB-1A4 DC12 BY OMI	G5Q-1A4 DC12 BY OMZ
G5SB-1A4 DC12 BY OMI (N)	G5Q-1A4 DC12 BY OMZ
G5SB-1A4 DC24 BY OMI	G5Q-1A4 DC24 BY OMZ
G5SB-1A4 DC24 BY OMI (N)	G5Q-1A4 DC24 BY OMZ
G5SB-1A4 DC48 BY OMI	G5Q-1A4 DC48 BY OMZ
G5SB-1A4 DC48 BY OMI (N)	G5Q-1A4 DC48 BY OMZ
G5SB-1 DC5 BY OMI	G5Q-1 DC5 BY OMZ
G5SB-1 DC5 BY OMI (N)	G5Q-1 DC5 BY OMZ
G5SB-1 DC9 BY OMI	G5Q-1 DC9 BY OMZ
G5SB-1 DC9 BY OMI (N)	G5Q-1 DC9 BY OMZ
G5SB-1 DC12 BY OMI	G5Q-1 DC12 BY OMZ
G5SB-1 DC12 BY OMI (N)	G5Q-1 DC12 BY OMZ
G5SB-1 DC18 BY OMI	G5QN
G5SB-1 DC18 BY OMI (N)	G5QN
G5SB-1 DC24 BY OMI	G5Q-1 DC24 BY OMZ
G5SB-1 DC24 BY OMI (N)	G5Q-1 DC24 BY OMZ
G5SB-1 DC48 BY OMI	G5Q-1 DC48 BY OMZ
G5SB-1 DC48 BY OMI (N)	G5Q-1 DC48 BY OMZ
G5SB-14 DC5 BY OMI	G5Q-14 DC5 BY OMZ
G5SB-14 DC5 BY OMI (N)	G5Q-14 DC5 BY OMZ
G5SB-14 DC9 BY OMI	G5Q-14 DC9 BY OMZ
G5SB-14 DC9 BY OMI (N)	G5Q-14 DC9 BY OMZ
G5SB-14 DC12 BY OMI	G5Q-14 DC12 BY OMZ
G5SB-14 DC12 BY OMI (N)	G5Q-14 DC12 BY OMZ
G5SB-14 DC18 BY OMI	G5Q-14 DC18 BY OMZ
G5SB-14 DC18 BY OMI (N)	G5Q-14 DC18 BY OMZ
G5SB-14 DC24 BY OMI	G5Q-14 DC24 BY OMZ
G5SB-14 DC24 BY OMI (N)	G5Q-14 DC24 BY OMZ
G5SB-14 DC48 BY OMI	G5Q-14 DC48 BY OMZ
G5SB-14 DC48 BY OMI (N)	G5Q-14 DC48 BY OMZ
G5SB-14-ANI DC5 BY OMI	G5Q-14 DC5 BY OMZ
G5SB-14-ANI DC5 BY OMI (N)	G5Q-14 DC5 BY OMZ
G5SB-14-CB DC12 BY OMI	G5Q-14 DC12 BY OMZ
G5SB-14-CB DC12 BY OMI (N)	G5Q-14 DC12 BY OMZ
G5SB-14-CQC DC12 BY OMI	G5Q-14 DC12 BY OMZ
G5SB-14-CQC DC12 BY OMI (N)	G5Q-14 DC12 BY OMZ
G5SB-14-SS DC12 BY OMI	G5Q-14 DC12 BY OMZ
G5SB-14-SS DC12 BY OMI (N)	G5Q-14 DC12 BY OMZ

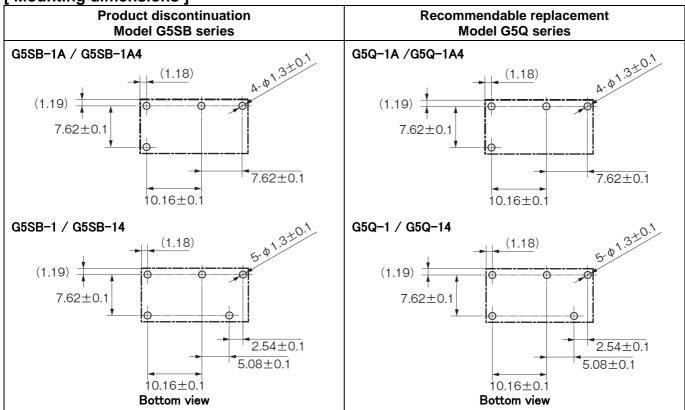
[Body color]

Product discontinuation Model G5SB series	Recommendable replacement Model G5Q series		
Black	Black		

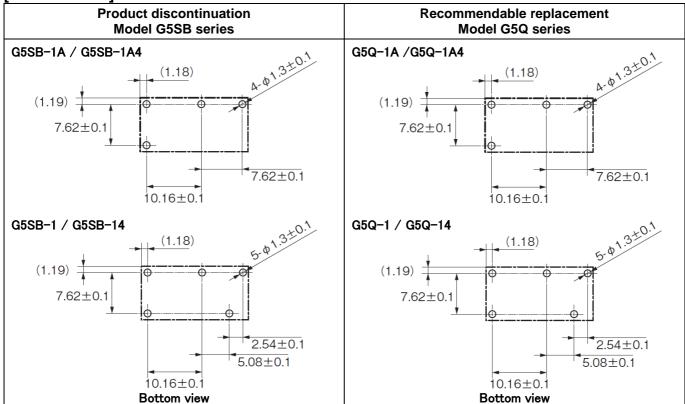
[Wire connection]

Product discontinuation Model G5SB series	Recommendable replacement Model G5Q series		
G5SB-1A / G5SB-1A4	G5Q-1A /G5Q-1A4		
G5SB-14 1	G5Q-14 No coil polarity		

[Mounting dimensions]



Dimensions]



Model		Rated voltage (VDC)	Rated current (mA)	Coil Resistance (Ω)	Must operate voltage (%)	Must release voltage (%)	Max. voltage (%)	Power consumption (mW)
		5	80.0	63				
		9	44.4	202			150% (at 23°C)	Approx.400
Product	CECD 14	12	33.3	360	75%	5% min.		
discontinuation	G5SB-14	18	22.2	798	max.			
		24	16.7	1,440				
		48	8.3	5,760				
	G5Q-1A G5Q-1A4	5	40.0	125	75%	5% min.	190% (at 23°C)	Approx.200
		9	22.2	405				
		12	16.7	720				
		24	8.3	2880				
Dagammandahla		48	4.2	11520				
Recommendable	G5Q-1 G5Q-14	5	80.0	63				A = = = = 400
replacement		9	44.4	202	max.			
		12	33.3	360				
		18	22.2	798				Approx.400
		24	16.7	1,440				
		48	8.3	5,760				

●Contacts

Item	Product discontinuation Model G5SB series			able replacement G5Q series		
Model	G5SB-1A(4) G5SB-1(4)		G5Q-1A(4)	G5Q-1(4)		
Contact Type		Single				
Contact material		Ag-Alloy(Cd free)				
Rated load (resistive)	3 A (NO)/3 A (NC) 5 A (NO)/3 A (NC) 5 A (NO) at 250 \ 3 A (NC) at 250 \ 5 A (NO)/3 A (NC)	s) at 125 VAC /AC /AC	N.O AC125V 10A AC250V 3A AC250V 5A AC125V 3A DC30V 5A	N.C AC250V 3A AC125V 3A DC30V 3A		
Rated carry current	5A(N.O.)	5A(N.O.)/3A(N.C.)	10A(N.O.)	10A(N.O.)/3A(N.C.)		

[Characteristics]

I	tem	Product disc	continuation	Recommendable replacement			
M	lodel	G5SB-1A(4)	G5SB-1(4)	G5Q-1A(4) G5Q-1(4)			
Contact resistance *1 $100m\Omega$							
Operate tim	ie	10ms max.					
Release tim	е		5ms	max.			
Insulation re	esistance*2		1,000	MΩmax.			
Dialogério e		AC 4,	000V 50/60Hz for 1 mi	n (Between coil and cont	tacts)		
Dielectric st	rength	AC 1,000V	50/60Hz for 1 min (Bet	ween contacts of the sar	me polarity)		
Impulse wit	hstand voltage		8kV(1.2 x 50µs) (betw	veen coil and contacts)			
	Destruction			5 to 10Hz			
Vibration	Destruction	0.7	<u> </u>	(1.5mm double amplitud	de)		
resistance	Malfunction			5 to 10Hz			
	Mananotion	0.7	75mm single amplitude	(1.5mm double amplitud	de)		
Shock	Destruction		1,00	00m/s²			
resistance	Malfunction	100m/s²					
	Mechanical		operations	10,000,000			
	Wiconamoai	(18,000 operations per hour) (18,000 operations per hour)					
		N.O (resistive load) N.O (resistive load)					
		50,000 operations: 5 A at 250 VAC (operation: ON for 1 sec, OFF for 1 sec) 50,000 operations: 10 A at 125 VAC (operation: ON for 1 sec, OFF for 3 sec)					
		(operation: ON for 1 sec, OFF for 1 sec) (operation: ON for 1 sec, OFF for 3 100,000 operations: 3 A at 250 VAC					
		N.C (resistive load) 200,000 operations: 3 A at 250 V/A					
		100,000 operations: 3 A at 250 VAC 50,000 operations: 5 A at 250 VAC					
			1 sec, OFF for 1 sec)	100,000 operations: 5 A at 30 VDC			
Durability		(oporation: Orvior	1 000, 011 101 1 000)	(operation: ON for 1			
	Electrical	N.O/N.C(resistive load	d)	(operanem errier :	, , , , , , , , , , , , , , , , , , , ,		
		200,000 operations:					
		3A(N.O)/3A(N.C) a	t 125 VAC	N.C (resistive load) 100,000 operations: 3 A	at 250 VAC		
		50,000 operations:		200,000 operations: 3 A			
		5A(N.O)/3A(N.C) a	t 125 VAC	100,000 operations: 3 A			
		100,000 operations:					
		5A(N.O)/3A(N.C) a	t 30 VDC	(-1	, - - - ,		
			1 sec, OFF for 1 sec)				
Failure rate	(P level)	DC5V 10mA					
(reference v		(This value wa		hing frequency of 120 op	erations/min.)		
Ambient op	erating	-40 °C to 70 °C -40 °C to 105 °C			105 °C		
temperature		(with no icing o		(with no icing or condensation)			

Note. The data shown above are initial values.

^{*1} The contact resistance is possible with 1 A applied at 5 VDC using a fall-of-potential method.

^{*2.} Testing conditions: The insulation resistance was measured with a 500 VDC meg ohmmeter at the same locations as the dielectric strength was measured.

[Operation methods]

Product discontinuation Model G5SB series	on	Recommendable replacement Model G5Q series		
	There is not operation m	t changing of nethods.		
			_	

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.