OMRON
ELECTRONIC COMPONENTS

MARKETINGUPDATE

NO:	**REL-137**	**PRODUCT:**	**G5LE-G Power PCB Relay**
DATE:	**June 2013**	**TYPE:**	**Product DISCONTINUATION**

G5LE-G Power PCB Relays to be DISCONTINUED

December 30, 2013

Based upon a diminishing demand for the G5LE-G series relay, OMRON will discontinue this model at the end of the year. With its improved production efficiencies, the standard **G5LE** model will be the recommended replacement. The standard model is ***not*** a direct replacement, however, so please carefully read through and note the differences. The following details will fully explain the discontinuation and replacement considerations; should you have any additional questions, however, please communicate with Product Manager, Mr. Jason Lipps.

Product Discontinuation		**Recommended Replacement**
Power PCB Relay		Power PCB Relay
Model G5LE-G	➡	**Model G5LE**

Discontinuation date

End of December, 2013

LAST Order date

September 29, 2013

Caution on recommended replacement:

Although not a drop-in replacement, we recommend the standard G5LE model which has closely rated performance specifications.

G5LE Differences from discontinued product:

Recommended replacement Model	Body Color	Dimen -sions	Wire connection	Mounting Dimensions	Charact -eristics	Operation ratings	Operation methods
G5LE	**	**	**	**	*	--	--

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

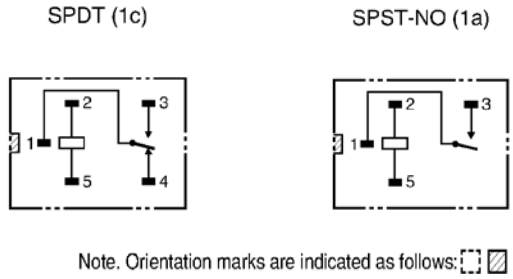
Discontinued product and recommended replacement:

Discontinued product	Recommended replacement
G5LE-1A-G DC5 BY OMB	G5LE-1A DC5 BY OMB
G5LE-1A-G DC9 BY OMB	G5LE-1A DC9 BY OMB
G5LE-1A-G DC12 BY OMB	G5LE-1A DC12 BY OMB
G5LE-1A-G DC20 BY OMB	G5LE-1A DC20 BY OMB
G5LE-1A-G DC24 BY OMB	G5LE-1A DC24 BY OMB
G5LE-1-G DC5 BY OMB	G5LE-1 DC5 BY OMB
G5LE-1-G DC9 BY OMB	G5LE-1 DC9 BY OMB
G5LE-1-G DC12 BY OMB	G5LE-1 DC12 BY OMB
G5LE-1-G DC20 BY OMB	G5LE-1 DC20 BY OMB
G5LE-1-G DC24 BY OMB	G5LE-1 DC24 BY OMB

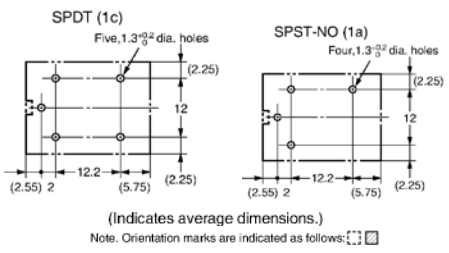
Body color:

Discontinued product Model G5LE-G	Recommended replacement Model G5LE
Black 	Same as on the left

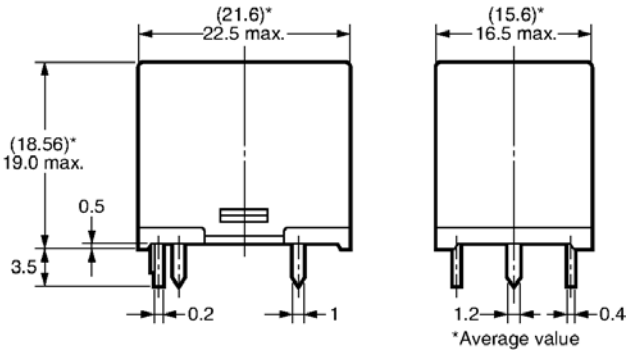
Wire connection:

Discontinued product Model G5LE-G	Recommended replacement Model G5LE
Contact configuration and indication of operation  **(BOTTOM VIEW)**	Contact configuration and indication of operation Same as on the left

Mounting dimensions:

Discontinued product Model G5LE-G	Recommended replacement Model G5LE
Mounting Holes  **(BOTTOM VIEW)**	Mounting Holes Same as on the left

Dimensions:

Discontinued product Model G5LE-G	Recommended replacement Model G5LE
 (Indicates average dimensions.)	Same as on the left

Characteristics, Operation ratings, and Operation method:

Item	Discontinued product Model G5LE-G	Recommended replacement Model G5LE
■Characteristics		
Contact resistance	100mΩ max.	100mΩ max.
Operate time	10ms max.	10ms max.
Release time	5ms max	5ms max
Bounce time	Operate: Approx. 0.6ms Release: Approx. 7.2ms	Operate: Approx. 0.6ms Release: Approx. 7.2ms
Max. switching frequency	Mechanical: 18,000 operations./hr	Mechanical: 18,000 operations./hr Electrical: 1,800 operations./hr (under rated load)
Insulation resistance	100 MΩ min. (at 500 VDC)	100 MΩ min. (at 500 VDC)
Dielectric strength	1500VAC, 50/60Hz for 1min. between contacts of same polarity 2,000 VAC 50/60Hz for 1min. between coil and contacts.	750VAC, 50/60Hz for 1min. between contacts of same polarity 2,000 VAC 50/60Hz for 1min. between coil and contacts.
Impulse withstand voltage	4,500V between coil and contacts, 1.2X50μsec	4,500V between coil and contacts
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 Hz, 1.5 mm double amplitude Malfunction: 10 to 55 Hz, 1.5 mm double amplitude
Shock resistance	Destruction: 1,000 m/s2 (approx. 100G) Malfunction: 100 m/s2 (approx. 10G)	Destruction: 1,000 m/s2 (approx. 100G) Malfunction: 100 m/s2 (approx. 10G)
Life expectancy	Mechanical: 10,000,000 operations min. (at 18,000 operations/hr)	Mechanical: 10,000,000 operations min. (at 18,000 operations/hr) Electrical: 100,000 operations min. (at 1,800 operations/hr)
Ambient temperature	Operating: -40℃ to 85℃	Operating: -40℃ to 85℃ (-13°F to 185°F)
Ambient humidity	Operating: 35% to 85%	Operating: 35% to 85%
Weight	Approx. 12g	Approx. 12g (0.42 oz)

Note; Values in the above table are the initial values.		
■Approved Standards	**UL: File No.E41643** **CSA: File No.LR31928** **VDE Reg. No.6850**	**UL: File No.E41643** **CSA: File No.LR31928** **VDE Reg. No.6850** **TÜV: File No.R50158258**
■Ratings **●Contact Ratings**		
Load	Resistive load (cos φ=1)	Resistive load (cos φ=1)
Rated load	10A at 35VDC	10A at 120VAC; 8A at 30VDC
Rated carry current	10A	10A
Max. switching voltage	35VDC	250VAC, 125VDC
Max. switching current	DC:10A	AC:10A DC:8A
Max. switching capacity	350W	1,200VA, 240W
MIN. permissible load	100mA at 5VDC	100mA at 5VDC

■Ratings

●Coil Ratings

Product discontinuation G5LE-G

700-mW Type (G5LE-G)

Rated voltage	**9 VDC**	**12 VDC**	**20 VDC**	**24 VDC**
Rated current	77.8 mA	58.3 mA	35.0 mA	29.2 mA
Coil resistance	115.7 Ω	205.7 Ω	571.4 Ω	822.9 Ω
Must operate voltage	75% of rated voltage (max.)			
Must release voltage	10% of rated voltage (min.)			
Max. voltage	120% of rated voltage at 85°C, 150% of rated voltage at 23°C			
Power consumption	Approx. 700 mW			

Note: The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%.

Recommendable replacement G5LE

Rated voltage	3 VDC	5 VDC	6 VDC	9 VDC	12 VDC	24 VDC	48 VDC
Rated current	136.4 mA	79.4 mA	66.7 mA	45 mA	33.3 mA	16.7 mA	8.33 mA
Coil resistance	22.5 Ω	63 Ω	90 Ω	200 Ω	360 Ω	1,440 Ω	5,760 Ω
Must operate voltage	75% of rated voltage (max.)						
Must release voltage	10% of rated voltage (min.)						
Max. voltage	130% of rated voltage at 70°C (158°F), 170% of rated voltage at 23°C (73°F)						
Power consumption	Approx. 400 mW						

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C (73°F) with a tolerance of ±10%.
2. 360 mW coil is available. Contact Omron for details.
3. VDE approved model available. Contact Omron for details.

* Sales teams should communicate this discontinuation with their OEM's and CEM's. For further technical support and any questions, please communicate with Product Marketing.