PRODUCT NEWS

Product Discontinuation Notices

PCB Power Relays

OMRON

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February 1, 2016

No. 2016010CE(ON)

Discontinuation Notice of PCB Power relays G6DS series.

Product Discontinuation		Recommended Replacement
PCB Power Relays		PCB Power Relays
Model G6DS Series	➡	**Model G6DN Series**

[Discontinuation date]

The end of December, 2017

[Caution on recommended replacement]

There are dimensions, wire connection and mounting dimensions.
Therefore, please re-evaluate adequacy with applications.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimen-sions	Wire connection	Mounting Dimensions	Charac-teristics	Operation ratings	Operation methods
Model G6DN Series	**	*	--	*	*	*	**

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

[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
P6DS-04P BY OMI	No recommended replacement
G6DS-1A-N DC12 BY OMI	G6DN
G6DS-1A-H-OM DC24 BY OMI	G6DN-1A DC24
G6DS-1A-H DC6 BY OMI	G6DN
G6DS-1A-H DC5 BY OMI	G6DN-1A DC5
G6DS-1A-H DC24 BY OMI	G6DN-1A DC24
G6DS-1A-H DC20 BY OMI	G6DN
G6DS-1A-H DC12 BY OMI	G6DN-1A DC12
G6DS-1A-ASI DC24 BY OMI	G6DN
G6DS-1A-ASI DC12 BY OMI	G6DN
G6DS-1A DC5 BY OMI	G6DN-1A DC5
G6DS-1A DC24 BY OMI	G6DN-1A DC24
G6DS-1A DC12 BY OMI	G6DN-1A DC12
R99-01 FOR G6DS	No recommended replacement

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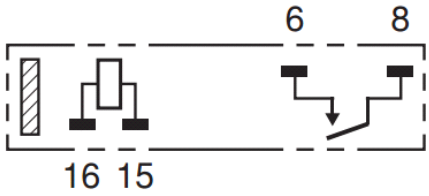
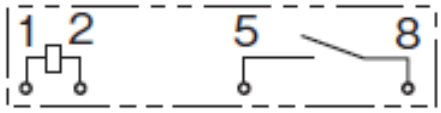
No. YPE-G6DS-0096

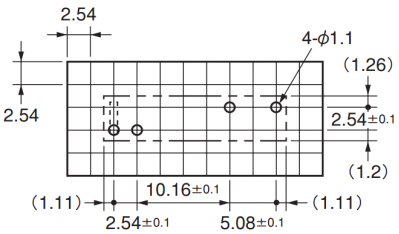
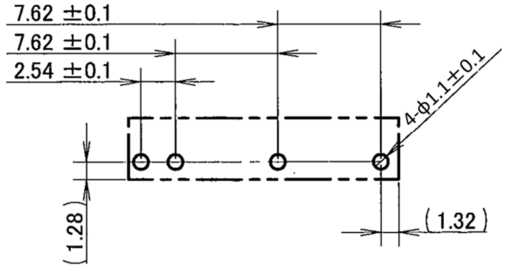
[Body color]

Product discontinuation Model G6DS Series	Recommendable replacement Model G6DN Series
Black 	**Black** 

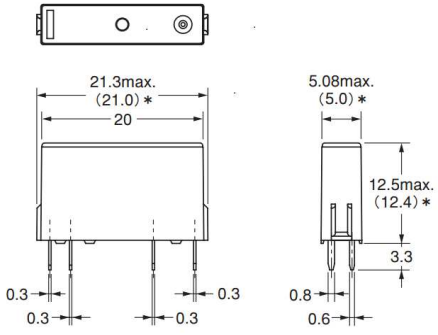
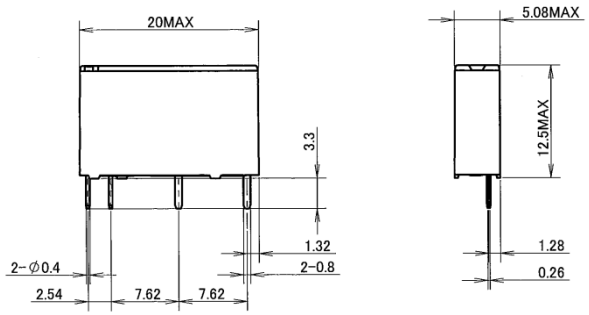
[Wire connection]

Product discontinuation Model G6DS Series	Recommendable replacement Model G6DN Series
BOTTOM VIEW  No coil polarity	BOTTOM VIEW  No coil polarity

[Mounting dimensions]

Product discontinuation Model G6DS Series	Recommendable replacement Model G6DN Series
BOTTOM VIEW  Tolearance :±0.1mm	BOTTOM VIEW  Tolearance :±0.1mm

[Dimensions]

Product discontinuation Model G6DS Series	Recommendable replacement Model G6DN Series
Average value 	Average value 

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[Characteristics]

Item		Product discontinuation Model G6DS Series		Recommendable replacement Model G6DN Series
		Standard	High-sensitivity	
■Ratings ●Coil Ratings				
Rated Voltage		5V,12V,24V		5V,12V,24V
Operate voltage		70% max. Operate voltage when the terminal is installed top of the relay is less than 75%Operate voltage when the terminal is installed top of the relay is less than 75%		70% max. Operating voltage is less than 72% when the relay is sideways and the marking is right way.
Release voltage		5% min.		5% min.
Maximum voltage		160%(at 23 degree C)		160%(at 23 degree C)
Power consumption		Approx.180mW	Approx.120mW	Approx.110mW
●Contact Ratings				
Contact type		Single		Cross bar twin
Contact material		Ag Alloy + Au		Ag Alloy + Au(Only stationary contact)
Rated load (Resistive load)		250VAC 5A 30VDC 5A		250VAC 5A 30VDC 5A
Rated load (Inductive load)		250VAC 2A($\cos\phi$=0.4) 30VDC 2A(L/R=7ms)		-
Rated carry current		5A		5A
■Characteristics				
Contact resistance *1		100mΩ max.		100mΩ max.
Operate time		10ms max.		10ms max.
Release time		5ms max.		5ms max.
Insulation resistance *2		1000MΩ min.		1000MΩ min.
Dielectric strength	**Between coil and contacts**	3000VAC, 50/60Hz for 1min		3000VAC, 50/60Hz for 1min
	Between contacts of the same polarity	750VAC, 50/60Hz for 1min		750VAC, 50/60Hz for 1min
Impulse withstand voltage	**Between contacts of the same polarity**	6,000V(1.2×50μs)		6,000V(1.2×50μs)
Vibration resistance	**Destruction**	10 to 55 to 10Hz,0.75mm single amplitude(1.5mm double amplitude)		10 to 55 to 10Hz,2.5mm single amplitude(5mm double amplitude)
	Malfunction	10 to 55 to 10Hz,0.75mm single amplitude(1.5mm double amplitude)		10 to 55 to 10Hz,0.75mm single amplitude(1.5mm double amplitude)
Shock resistance	**Destruction**	1000m/s^2		1000m/ s^2
	Malfunction	150m/ s^2	130m/ s^2	100m/ s^2
Endurance	**Mechanical**	20,000,000 operations min.		20,000,000 operations min.
	Electrical	100,000operatons min.:5A at 250VAC /30VDC,1800 operations an hour	80,000operatons min.:5A at 250VAC /30VDC,1800 operations an hour	100,000operatons min. :3A at 250VAC/30VDC,1800 operations an hour

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Item		Product discontinuation Model G6DS Series		Recommendable replacement Model G6DN Series
		100,000operatons min.:2A at 250VAC (cos ϕ =0.4),1800 operations an hour 100,000operatons min.:2A at 30VDC (L/R=7ms),1800 operations an hour	100,000operatons min.:2A at 250VAC (cos ϕ =0.4),1800 operations an hour 100,000operatons min.:2A at 30VDC (L/R=7ms),1800 operations an hour	80,000operatons min. :5A at 250VAC/30VDC,1200 operations an hour
Failure rate(P level) (reference value)		24VDC,5mA		0.1VDC,0.1mA
Ambient temperature		-40 degree C to +85 degree C (with no icing or condensation)		-40 degree C to +90 degree C (with no icing or condensation)

Note. Values in the above table are initial values.
Note 1. The contact resistance is measured with 1 A applied at 5 VDC using a fall-of-potential method.
Note 2. The insulation resistance is measured between coil and contacts and between contacts of the same polarity at 500 VDC.

[Operation methods]

Product discontinuation Model G6DS Series	Recommendable replacement Model G6DN Series
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.