PRODUCT NEWS

OMRON

NO: RL-180 **PRODUCT:** G3MC
DATE: May 2021 **TYPE:** Discontinuation Notice

Discontinuation Notice of Solid State Relay of products of G3MC series

Product Discontinuation	Recommended Replacement
Solid State Relays	Solid State Relays
Model G3MC-101P(-VD)	**Model G3CN-202P1-US DC3-28**
Model G3MC-201P(-VD)(-1)	**Model G3CN-202P1-US DC3-28**
Model G3MC-202P(-VD)(-1)	**Model G3CN-202P1-US DC3-28**
Model G3MC-101PL(-VD) DC5	**Model G3CN-202PL1 DC5**
Model G3MC-101PL(-VD) DC12	**Model G3CN-202PL1-US DC12**
Model G3MC-101PL(-VD) DC24	**Model G3CN-202PL1-US DC24**
Model G3MC-202PL(-VD)(-1) DC5	**Model G3CN-202PL1 DC5**
Model G3MC-202PL(-VD)(-1) DC12	**Model G3CN-202PL1-US DC12**
Model G3MC-202PL(-VD)(-1) DC24	**Model G3CN-202PL1-US DC24**
Model G3MC-201PL(-VD)(-1) DC5	**Model G3CN-202PL1 DC5**
Model G3MC-201PL(-VD)(-1) DC12	**Model G3CN-202PL1-US DC12**
Model G3MC-201PL(-VD)(-1) DC24	**Model G3CN-202PL1-US DC24**
Model G3MC-102PL DC5	**Model G3CN-202PL1 DC5**
Model G3MC-202PL-VD-2 DC12	**Model G3CN-202PL1-US DC12**

[Final order entry date]
The end of March, 2022

[Date of The Last Shipping]
The end of June, 2022

[Caution on recommended replacement]
Model G3CN series are NOT certificated EN standard.
5VDC of Model G3CN-202PL series are NOT certificated UL/CSA standard type -US series.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimen-sions	Wire connection	PCB Dimensions	Charac-teristics	Operation ratings	Operation methods
G3CN-202P1-US DC3-28	**	--	**	--	**	*	**
G3CN-202PL1 DC5	**	--	**	--	**	**	**
G3CN-202PL1-US DC12	**	--	**	--	**	**	**
G3CN-202PL1-US DC24	**	--	**	--	**	**	**

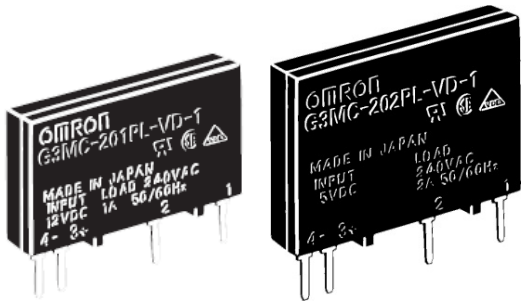
** : Compatible
* : The change is a little/Almost compatible
-- : Not compatible
- : No corresponding specification

[Product Discontinuation and recommended replacement]

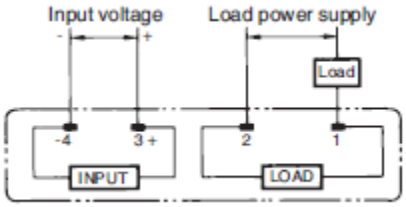
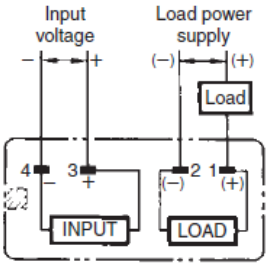
Product discontinuation	Recommended replacement
G3MC-101P DC12	G3CN-202P1-US DC3-28
G3MC-101P DC24	G3CN-202P1-US DC3-28
G3MC-101P DC5	G3CN-202P1-US DC3-28
G3MC-101P-VD DC12	G3CN-202P1-US DC3-28
G3MC-101P-VD DC24	G3CN-202P1-US DC3-28
G3MC-101P-VD DC5	G3CN-202P1-US DC3-28
G3MC-101PL DC12	G3CN-202PL1-US DC12
G3MC-101PL DC24	G3CN-202PL1-US DC24
G3MC-101PL DC5	G3CN-202PL1 DC5
G3MC-101PL-VD DC12	G3CN-202PL1-US DC12
G3MC-101PL-VD DC24	G3CN-202PL1-US DC24
G3MC-101PL-VD DC5	G3CN-202PL1 DC5
G3MC-102PL DC5	G3CN-202PL1 DC5
G3MC-201P DC12	G3CN-202P1-US DC3-28
G3MC-201P DC24	G3CN-202P1-US DC3-28
G3MC-201P DC5	G3CN-202P1-US DC3-28
G3MC-201P-VD DC12	G3CN-202P1-US DC3-28
G3MC-201P-VD DC24	G3CN-202P1-US DC3-28
G3MC-201P-VD DC5	G3CN-202P1-US DC3-28
G3MC-201P-VD-1 DC12	G3CN-202P1-US DC3-28
G3MC-201P-VD-1 DC24	G3CN-202P1-US DC3-28
G3MC-201P-VD-1 DC5	G3CN-202P1-US DC3-28
G3MC-201PL DC12	G3CN-202PL1-US DC12
G3MC-201PL DC24	G3CN-202PL1-US DC24
G3MC-201PL DC5	G3CN-202PL1 DC5
G3MC-201PL-VD DC12	G3CN-202PL1-US DC12
G3MC-201PL-VD DC24	G3CN-202PL1-US DC24
G3MC-201PL-VD DC5	G3CN-202PL1 DC5
G3MC-201PL-VD-1 DC12	G3CN-202PL1-US DC12
G3MC-201PL-VD-1 DC24	G3CN-202PL1-US DC24

Product discontinuation	Recommended replacement
G3MC-201PL-VD-1 DC5	G3CN-202PL1 DC5
G3MC-202P DC12	G3CN-202P1-US DC3-28
G3MC-202P DC24	G3CN-202P1-US DC3-28
G3MC-202P DC5	G3CN-202P1-US DC3-28
G3MC-202P-VD DC12	G3CN-202P1-US DC3-28
G3MC-202P-VD DC24	G3CN-202P1-US DC3-28
G3MC-202P-VD DC5	G3CN-202P1-US DC3-28
G3MC-202P-VD-1 DC12	G3CN-202P1-US DC3-28
G3MC-202P-VD-1 DC24	G3CN-202P1-US DC3-28
G3MC-202P-VD-1 DC5	G3CN-202P1-US DC3-28
G3MC-202PL DC12	G3CN-202PL1-US DC12
G3MC-202PL DC24	G3CN-202PL1-US DC24
G3MC-202PL DC5	G3CN-202PL1 DC5
G3MC-202PL-VD DC12	G3CN-202PL1-US DC12
G3MC-202PL-VD DC24	G3CN-202PL1-US DC24
G3MC-202PL-VD DC5	G3CN-202PL1 DC5
G3MC-202PL-VD-1 DC12	G3CN-202PL1-US DC12
G3MC-202PL-VD-1 DC24	G3CN-202PL1-US DC24
G3MC-202PL-VD-1 DC5V	G3CN-202PL1 DC5
G3MC-202PL-VD-2 DC12	G3CN-202PL1-US DC12

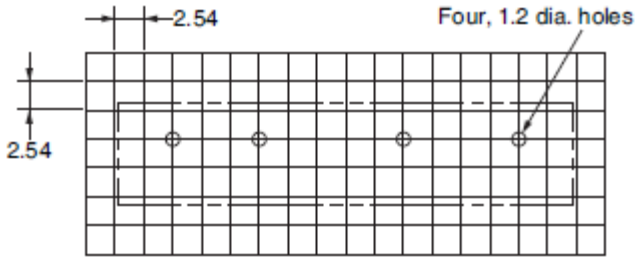
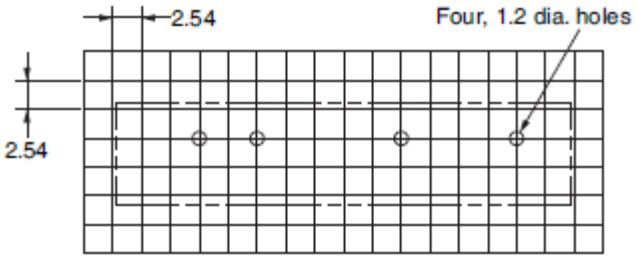
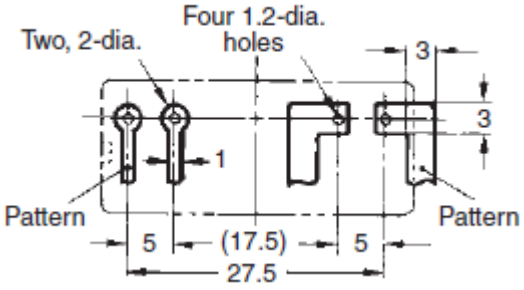
[Body color]

Product discontinuation *Model* G3MC-101P(-VD) *Model* G3MC-101PL(-VD) *Model* G3MC-201P(-VD)(-1) *Model* G3MC-201PL(-VD)(-1) *Model* G3MC-202P(-VD)(-1) *Model* G3MC-202PL(-VD)(-1) *Model* G3MC-102PL 形G3MC-202PL-VD-2	Recommendable replacement ***Model G3CN-202P1-US*** ***Model G3CN-202PL1-US*** ***Model G3CN-202PL1 5VDC Only***
Body color: Black	***Body color: Black***
	

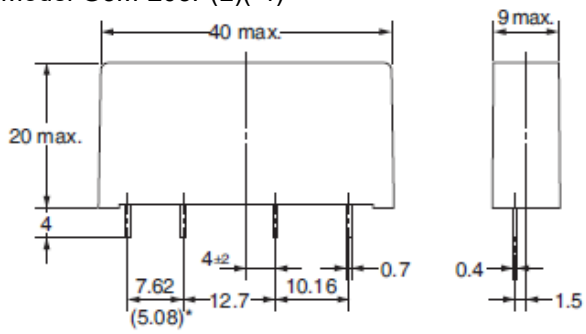
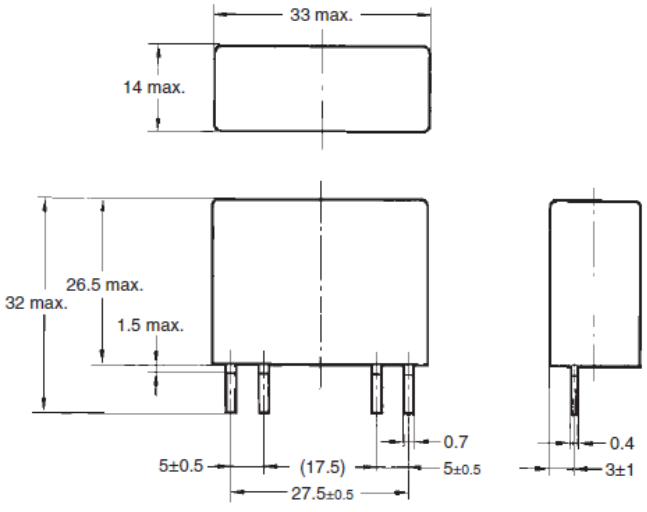
[Terminal Arrangement/Internal Connections(BOTTM VIEW)]

Product discontinuation *Model* G3MC-101P(-VD) *Model* G3MC-101PL(-VD) *Model* G3MC-201P(-VD)(-1) *Model* G3MC-201PL(-VD)(-1) *Model* G3MC-202P(-VD)(-1) *Model* G3MC-202PL(-VD)(-1) *Model* G3MC-102PL 形G3MC-202PL-VD-2	Recommendable replacement ***Model G3CN-202P1-US*** ***Model G3CN-202PL1-US*** ***Model G3CN-202PL1 5VDC Only***
	 Note. The plus and minus symbols shown in the parentheses are for DC loads.

[PCB dimensions(BOTTOM VIEW)]

Product discontinuation ***Model* G3MC-101P(-VD) *Model* G3MC-101PL(-VD)** ***Model* G3MC-201P(-VD)(-1) *Model* G3MC-201PL(-VD)(-1)** ***Model* G3MC-202P(-VD)(-1) *Model* G3MC-202PL(-VD)(-1)** ***Model* G3MC-102PL 形G3MC-202PL-VD-2**	**Recommendable replacement** ***Model G3CN-202P1-US*** ***Model G3CN-202PL1-US*** ***Model G3CN-202PL1 5VDC Only***
G3M-203P(L)  **G3M-203P(L)-4** 	Model G3CN-202P1-US Model G3CN-202PL1-US 

[Dimensions]

Product discontinuation ***Model* G3MC-101P(-VD) *Model* G3MC-101PL(-VD)** ***Model* G3MC-201P(-VD)(-1) *Model* G3MC-201PL(-VD)(-1)** ***Model* G3MC-202P(-VD)(-1) *Model* G3MC-202PL(-VD)(-1)** ***Model* G3MC-102PL 形G3MC-202PL-VD-2**	**Recommendable replacement** ***Model G3CN-202P1-US*** ***Model G3CN-202PL1-US*** ***Model G3CN-202PL1 5VDC Only***
Model G3M-203P(L)(-4)  *Input terminal pitch for models ending in "-4" is 5.08 mm.	Model G3CN-202P1-US Model G3CN-202PL1-US 

[Characteristics]

Product discontinuation

***Model* G3MC-101P(-VD) *Model* G3MC-101PL(-VD)**
***Model* G3MC-201P(-VD)(-1) *Model* G3MC-201PL(-VD)(-1)**
***Model* G3MC-202P(-VD)(-1) *Model* G3MC-202PL(-VD)(-1)**
***Model* G3MC-102PL 形G3MC-202PL-VD-2**

Ratings
Input

Model G3M-203[]series

Rated input voltage	Operating voltage	Impedance	Must operate voltage	Must release voltage
5VDC	4 to 6VDC	300Ω±20%	4 VDC max.	1 VDC min.
12VDC	9.6 to 14.4 VDC	800Ω±20%	9.6 VDC max.	
24VDC	19.2 to 28.8 VDC	1.6kΩ±20%	19.2 VDC max.	

Output

Rated input voltage	Rated voltage	Applicable load		
		Load voltage range	Load current	Inrush current
G3MC-101P(-VD) G3MC-101PL(-VD)	100 to 120 VAC	75 to 132 VAC	0.1 to 1A *	8A (60Hz,1 cycle)
G3MC-201P(-VD)(-1) G3MC-201PL(-VD)(-1)	100 to 240 VAC	75 to 264 VAC		
G3MC-102PL	100 to 120 VAC	75 to 132 VAC	0.1 to 2A *	30A (60Hz,1 cycle)
G3MC-202P(-VD)(-1) G3MC-202PL(-VD)(-1)	100 to 240 VAC	75 to 264 VAC		
G3MC-202PL-VD-2	100 to 240 VAC	75 to 264 VAC		

* The load current varies depending on the ambient temperature.
Refer to Load Current vs. Ambient Temperature under Engineering Data.

Recommendable replacement

Model G3CN-202P1-US
Model G3CN-202PL1-US
Model G3CN-202PL1 5VDC Only

Ratings
Input

Model G3CN-202P1-US

Rated input voltage	Operating voltage	Impedance	Must operate voltage	Must release voltage
4～24VDC	3～28VDC	1.5kΩ+20%-10%	3 VDC max.	1 VDC min

Model G3CN-202PL1(-US)

Rated input voltage	Operating voltage	Impedance	Must operate voltage	Must release voltage
5VDC	4 to 6VDC	300Ω±20%	4 VDC max.	1 VDC min.
12VDC	9.6 to 14.4 VDC	900Ω±20%	9.6 VDC max.	
24VDC	19.2 to 28.8 VDC	1.6kΩ±20%	19.2 VDC max.	

Output

Rated input voltage	Rated voltage	Applicable load		
		Load voltage range	Load current	Inrush current
G3CN-202P1-US G3CN-202PL1-US G3CN-202PL15VDC	100 to 240 VAC	75 to 240 VAC	0.1 to 2A *	30A (60Hz,1 cycle)

* The load current varies depending on the ambient temperature.
Refer to Load Current vs. Ambient Temperature under Engineering Data.

Product discontinuation

***Model* G3MC-101P(-VD) *Model* G3MC-101PL(-VD)**
***Model* G3MC-201P(-VD)(-1) *Model* G3MC-201PL(-VD)(-1)**
***Model* G3MC-202P(-VD)(-1) *Model* G3MC-202PL(-VD)(-1)**
***Model* G3MC-102PL 形G3MC-202PL-VD-2**

Characteristics

Item	Characteristics
Operate time G3MC-[]-PL series	1ms max.
Operate time G3MC-[]-P series	1/2 of load power source cycle + 1ms max.
Release time	1/2 of load power source cycle + 1ms max.
Output ON voltage drop	1.6V(RMS) max.
Leakage current G3MC-10[]P(L) series	1mA max. (at 100VAC)
Leakage current G3MC-10[]P(L) series	1.5mA max. (at 200VAC)
Insulation resistance	1000MΩ max. (at 500VDC)
Dielectric strength	Between input and output 2,500VAC 50/60Hz 1min
Dielectric strength G3MC-[]-VD-1 series	Between input and output 3,000VAC 50/60Hz 1min
Vibration resistance	10 to 55 to 10Hz single amplitude 0.75mm (double amplitude 1.5mm)
Shock resistance	1000m/s^2
Ambient operating temperature	Storage : -30 to +100℃ (with no icing or no condensation) Operating : -30 to +80℃ (with no icing or no condensation)
Ambient operating humidity	45 to 85%RH
Wight	Approx. 15g

Approved standard

UL File No.E64562
CSA Report No.LR35535
EN TUV(EN62314) (-VD Series)

Recommendable replacement

Model G3CN-202P1-US
Model G3CN-202PL1-US
Model G3CN-202PL1 5VDC Only

Characteristics

Item	Characteristics
Operate time G3CN-[]-PL1 series	1ms max.
Operate time G3CN-[]-P1 series	1/2 of load power source cycle + 1ms max.
Release time	1/2 of load power source cycle + 1ms max.
Output ON voltage drop	1.6V(RMS) max.
Leakage current G3CN-[]-PL1 series	2.5mA max. (at 100VAC) 5mA max. (at 200VAC)
Leakage current G3CN-[]-PL1 series	5mA max. (at 100VAC) 10mA max. (at 200VAC)
Insulation resistance	1000MΩ max. (at 500VDC)
Dielectric strength	Between input and output 2,500VAC 50/60Hz 1min
Vibration resistance	10 to 55 to 10Hz single amplitude 0.75mm (double amplitude 1.5mm)
Shock resistance	1000m/s^2
Ambient operating temperature	Storage : -30 to +100℃ (with no icing or no condensation) Operating : -30 to +80℃ (with no icing or no condensation)
Ambient operating humidity	45 to 85%RH
Wight	Approx. 25g

Approved standard (Only G3CN-[]-US series)

UL File No.E64562
CSA Report No.LR35535

[Operation ratings]

Product discontinuation	Recommendable replacement
***Model* G3MC-101P(-VD) *Model* G3MC-101PL(-VD)** ***Model* G3MC-201P(-VD)(-1) *Model* G3MC-201PL(-VD)(-1)** ***Model* G3MC-202P(-VD)(-1) *Model* G3MC-202PL(-VD)(-1)** ***Model* G3MC-102PL 形G3MC-202PL-VD-2**	***Model G3CN-202P1-US*** ***Model G3CN-202PL1-US*** ***Model G3CN-202PL1 5VDC Only***
See Characteristics.	

[Operation methods]

Product discontinuation	Recommendable replacement
***Model* G3MC-101P(-VD) *Model* G3MC-101PL(-VD)** ***Model* G3MC-201P(-VD)(-1) *Model* G3MC-201PL(-VD)(-1)** ***Model* G3MC-202P(-VD)(-1) *Model* G3MC-202PL(-VD)(-1)** ***Model* G3MC-102PL 形G3MC-202PL-VD-2**	***Model G3CN-202P1-US*** ***Model G3CN-202PL1-US*** ***Model G3CN-202PL1 5VDC Only***
See Wire connection. (No change)	

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.