

Product Discontinuation Notice

Issue Date
February, 2023

Product Discontinuation

Solid-state Relay



G3R series
G3RD series



Recommended Replacement

Solid State Relay & Socket

G3R-I/O series
& P2R-05P

[Final order entry date]

The end of March, 2024

[Date of The Last Shipping]

The end of June, 2024

[Caution on recommended replacement]

Big change of mounting dimensions and wiring method.

Especially, recommended replacement model G3R-I/O is not mounted Printed board by single item.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
G3R-OA202SZN-UTU DC5-24 & P2R-05P	*	--	--	--	*	*	*
G3R-OA202SLN-UTU DC5-24 & P2R-05P	*	--	--	--	*	*	*
G3R-ODX02SN-UTU DC5-24 & P2R-05P	*	--	--	--	*	*	*
G3R-OD201SN-UTU DC5-24 & P2R-05P	*	--	--	--	*	*	*

** : Compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

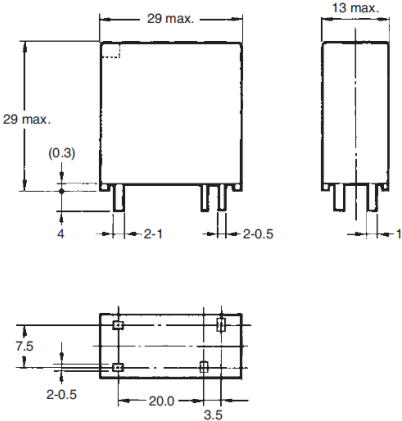
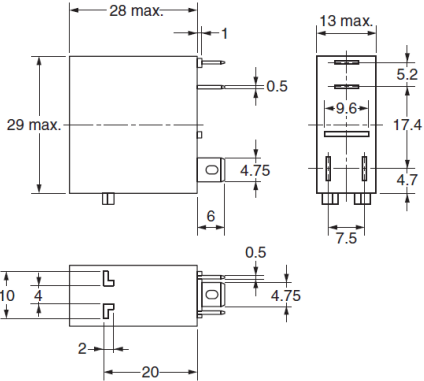
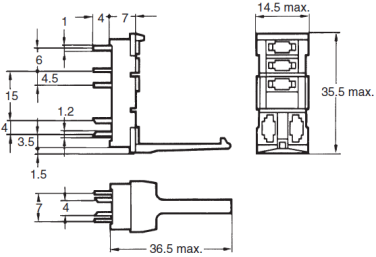
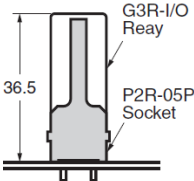
[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
G3R-102PN DC5	G3R-OA202SZN-UTU DC5-24 & P2R-05P
G3R-102PN DC12	
G3R-102PN DC24	
G3R-102PN-US DC5	
G3R-102PN-US DC12	
G3R-102PN-US DC24	
G3R-202PN DC5	
G3R-202PN DC12	
G3R-202PN DC24	
G3R-202PN-2 DC24	
G3R-202PN-US DC5	
G3R-202PN-US DC12	
G3R-202PN-US DC24	
G3R-102PLN DC5	G3R-OA202SLN-UTU DC5-24 & P2R-05P
G3R-102PLN DC12	
G3R-102PLN DC24	
G3R-102PLN-US DC5	
G3R-102PLN-US DC12	
G3R-102PLN-US DC24	
G3R-202PLN DC5	
G3R-202PLN DC12	
G3R-202PLN DC24	
G3R-202PLN-US-VA DC5	
G3R-202PLN-US-VA DC12	
G3R-202PLN-US-VA DC24	
G3RD-101PN DC5	G3R-OD201SN-UTU DC5-24 & P2R-05P
G3RD-101PN DC12	
G3RD-101PN DC24	
G3RD-101PN-US DC5	
G3RD-101PN-US DC12	
G3RD-101PN-US DC24	
G3RD-X02PN DC5	G3R-ODX02SN-UTU DC5-24 & P2R-05P
G3RD-X02PN DC12	
G3RD-X02PN DC24	
G3RD-X02PN-2 DC24	
G3RD-X02PN-US DC5	
G3RD-X02PN-US DC12	
G3RD-X02PN-US DC24	

[Body color]

Product discontinuation Model G3R series, G3RD series	Recommendable replacement Model G3R-I/O series & P2R-05P
	G3R-I/O  P2R-05P 

[Dimensions]

Product discontinuation Model G3R series, G3RD series	Recommendable replacement Model G3R-I/O series & P2R-05P
	G3R-I/O  P2R-05P  G3R-I/O & P2R-05P 

[Wire connection]

Product discontinuation Model G3R series, G3RD series	Recommended replacement Model G3R-I/O series & P2R-05P
Terminal Arrangement/ Internal Connections (BOTTOM VIEW)	G3R-I/O Terminal Arrangement/ Internal Connections (Bottom View) P2R-05P Terminal Arrangement (Bottom View)
Note. The plus and minus symbols shown in the parentheses are for DC loads.	The information in parentheses in for a DC output.

[Mounting dimensions]

Product discontinuation Model G3R series, G3RD series	Recommended replacement Model P2R-05P
Mounting Holes (BOTTOM VIEW)	Mounting Holes (Bottom View)

[Characteristics]

Product discontinuation
Model G3R series, G3RD series

■ Ratings

Input

Model	Item	Rated voltage	Operating voltage	Must operate voltage level
G3R-102PN	(-US)	5VDC	4 to 6V DC	3.5V DC max.
		12VDC	9.6 to 14.4V DC	8.4V DC max.
G3R-202PN		24VDC	19.2 to 28.8VDC	16.8V DC max.
	(-2)(-US)			

Model	Item	Rated voltage	Operating voltage	Must operate voltage level
G3R-102PN	(-US)	5VDC	0.375V DC min.	250 Ω ±20%
		12VDC	0.9V DC min.	600 Ω ±20%
G3R-202PN		24VDC	1.8V DC min.	1.5k Ω ±20%
	(-2)(-US)			

Model	Item	Rated voltage	Operating voltage	Must operate voltage level
G3R-102PLN	(-US)	5VDC	4 to 6V DC	3.5V DC max.
G3R-202PLN		12VDC	9.6 to 14.4V DC	8.4V DC max.
G3RD-X02PN				
G3RD-101PN	(-2)(-US)	24VDC	19.2 to 28.8VDC	16.8V DC max.
	(-US)			

Model	Item	Rated voltage	Operating voltage	Must operate voltage level
G3R-102PLN	(-US)	5VDC	0.375V DC min.	300 Ω ±20%
G3R-202PLN		12VDC	0.9V DC min.	750 Ω ±20%
G3RD-X02PN				
G3RD-101PN	(-2)(-US)	24VDC	1.8V DC min.	1.6k Ω ±20%
	(-US)			

Output

Model	Item	Rated load voltage	Load voltage range
G3R-102PN(-US)	G3R-102PLN(-US)	AC100~120V	AC75~132V
G3R-202PN		AC100~240V	AC75~264V
G3R-202PLN	(-2)(-US)		
G3RD-X02PN	(-US)(-VA)	DC4~48V	DC3~52.8V
G3RD-101PN(-US)		DC5~110V	DC3~125V

Model	Item	Load current	Inrush current
G3R-102PN(-US)	G3R-102PLN(-US)	0.1~2A	30A (60Hz, 1 cycle)
G3R-202PN		0.1~2A	
G3R-202PLN	(-2)(-US)		
G3RD-X02PN	(-US)(-VA)	0.01~2A	8A(10ms)
G3RD-101PN(-US)		0.01~1.5A	2.5A(10ms)

Recommendable replacement
Model G3R-I/O series & P2R-05P

■ Ratings

Input

Model	Rated voltage	Operating voltage
G3R-OA202SZN-UTU	5 to 24VDC	4 to 32VDC
G3R-OA202SLN-UTU		
G3R-ODX02SN-UTU		
G3R-OD201SN-UTU		

Model	Input current	Operating voltage	Release voltage	
G3R-OA202SZN-UTU	15mA max.	4VDC max.	1VDC min.	
G3R-OA202SLN-UTU				
G3R-ODX02SN-UTU	8mA max.			
G3R-OD201SN-UTU				

Output

Model	Rated load voltage	Load current	Inrush current
G3R-OA202SZN-UTU	75 to 264 VAC	0.05 to 2 A	30 A (60 Hz, 1 cycle)
G3R-OA202SLN-UTU			
G3R-ODX02SN-UTU	4 to 60 VDC	0.01 to 2 A	8 A (10 ms)
G3R-OD201SN-UTU	40 to 200 VDC	0.01 to 1.5 A	

Product discontinuation Model G3R series, G3RD series						Recommendable replacement Model G3R-I/O series & P2R-05P				
■ Characteristics						■ Characteristics				
Item	G3R -102PLN (-US)	G3R -102PN (-US)	G3R -202PLN (-US) (-VA)	G3R -202PN (-2)(-US)	G3RD -X02PN (-2)(-US) G3RD -101PN (-US)	Model	G3R -OA202SZN -UTU	G3R -OA202SLN -UTU	G3R -ODX02SN -UTU	G3R -OD201SN -UTU
Operate time	1 ms max.	1/2 of load power source cycle + 1 ms max.	1 ms max.	1/2 of load power source cycle + 1 ms max.	1 ms max.	Operate time	1/2 of load power source cycle + 1 ms max.	1 ms max.		
Release time	1/2 of load power source cycle + 1 ms max.				1 ms max.	Release time	1/2 of load power source cycle + 1 ms max.		2 ms max.	
Output ON voltage drop	1.6 V (RMS) max.				1.5 V max.	Output ON voltage drop	1.6 V (RMS) max.			2.5V max.
Leakage current	2 mA max. (at 100 VAC)		2 mA max. (at 100 VAC) 5 mA max. (at 200 VAC)		0.1mA max.	Leakage current	1.5mA max.		1mA max.	
Insulation resistance	100 MΩ min. (at 500 VDC)					Insulation resistance	100 MΩ min. (at 500 VDC)			
Dielectric strength	1,500 VAC, 50/60Hz for 1 min. between input and output (1A type) 2,500 VAC, 50/60Hz for 1 min. between input and output (2A type)				AC2,500V 50/60Hz 1min	Dielectric strength	4,000V AC, 50/60Hz 1min between input and output			
Vibration resistance	10 to 55 to 10 Hz, 0.75-mm single amplitude					Vibration resistance	10 to 55 to 10 Hz, 0.75-mm single amplitude			
Shock resistance	1,000 m/s2					Shock resistance	1,000 m/s2			
Ambient operating temperature	-30°C to 80°C					Storage temperature	-30~+100°C			
Ambient operating humidity	45% to 85%RH					Ambient operating temperature	-30°C to 80°C			
Storage temperature	-30°C to 100°C					Ambient operating humidity	45% to 85%RH			
Weight	Approx. 12g (1-A load model), Approx. 18 g (2-A LOAD, DC output model)					Weight	Approx. 18 g +P2RF-05P Approx. 5g			
Safety standard (-US type only) UL File No.E46562 CSA Report No. LR35535						Safety standard UL File No.E46562 CSA Report No. 203874 EN TUV(EN62314)				

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.