

**Product Discontinuation  
Notices**

General Purpose Relays

Issue Date  
January 6, 2014

No. 2013018CE(2)

**Discontinuation Notice of General Purpose Relays G2R-1(A)3-S[].****<< REQUEST >>**

There was modification in portion of Product Discontinuation notices of Product News No. 2013018CE of March 2013 issue. What we have changed is as follows; The addition of type G2R-1A3-S (NO contact series) to product discontinuation. Please abolish old edition, replace the latest No. 2013018CE(2).

**Product Discontinuation**

General-purpose Relay

**Model G2R-1(A)3-S[]****Recommended Replacement**

I/O Relay

**Model G7T-1122S****[ Discontinuation date ]**

The end of March, 2014

**[ Caution on recommended replacement ]**

Not compatible replacement for full, We are recommended to close G7T-1122S rated performance, size and price. If you wish to the Switching contact, there is MY4Z-CBG. But it is size increase. Please ask for details.

**[ Difference from discontinued product ]**

Recommended replacement Model	Body Color	Dimen-sions	Wire connection	Mounting Dimensions	Charact-eristics	Operation ratings	Operation methods
G7T-1122S	--	--	--	--	*	*	*

\*\* : Compatible

\* : The change is a little/Almost compatible



-- : Not compatible

- : No corresponding specification

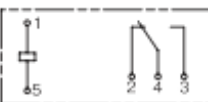
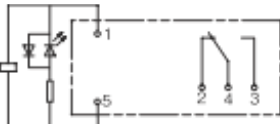
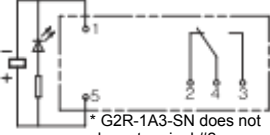
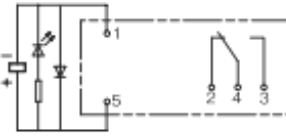

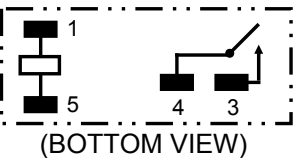
**[ Product Discontinuation and recommended replacement ]**

Product discontinuation	Recommended replacement
G2R-13-S DC24(N) BY OMB	G7T-1122S DC24
G2R-13-SN AC230(N) BY OMB	G7T-1122S AC200/220
G2R-13-SND DC24(N) BY OMB	G7T-1122S DC24
G2R-13-S AC230(S) BY OMB	G7T-1122S AC200/220
G2R-13-S DC12(S) BY OMB	G7T-1122S DC12
G2R-13-SN AC230(S) BY OMB	G7T-1122S AC200/220
G2R-13-SND DC24(S) BY OMB	G7T-1122S DC24
G2R-1A3-S AC100/(110)(S) BY OMB	G7T-1122S AC100/110

[ Body color ]

Product discontinuation Model G2R-1(A)3-S[]	Recommendable replacement Model G7T-1122S
Transparent 	Transparent green (DC-coil) Transparent red (AC-coil) 

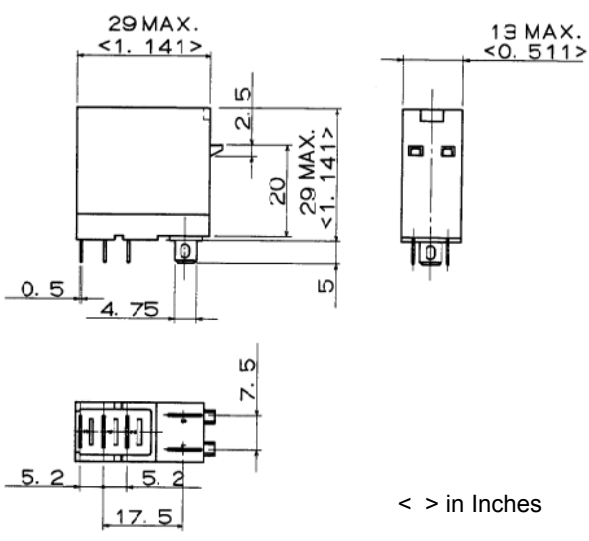
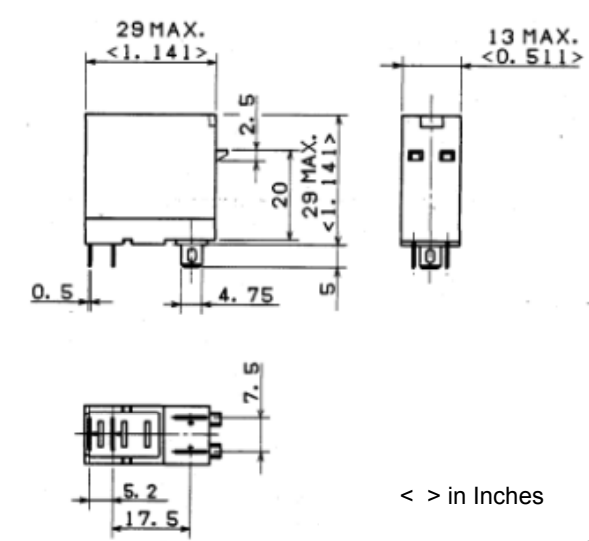
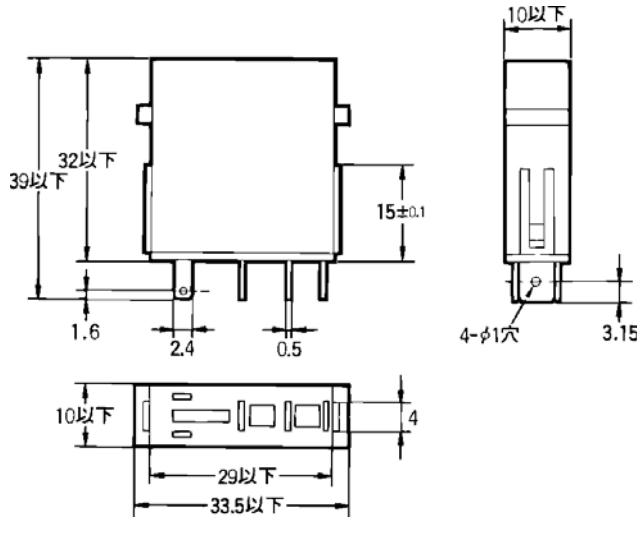
[ Wire connection ]

Product discontinuation Model G2R-1(A)3-S[]	Recommendable replacement Model G7T-1122S
<p><b>Contact configuration and indication of operation</b></p> <ul style="list-style-type: none"> <li>• 1c (Switching contact)/ 1a(NO contact)</li> <li>• LED indicator                             <ul style="list-style-type: none"> <li>-SN: LED indicator</li> <li>-SND: LED indicator and diode</li> </ul> </li> </ul> <p>G2R-13-S </p> <p>G2R-13-SN(AC-coil)   <small>* G2R-1A3-SN does not have terminal #2.</small></p> <p>G2R-13-SN(DC-coil)   <small>* G2R-1A3-SN does not have terminal #2.</small></p> <p>G2R-13-SND </p> <p>G2R-1A3-S </p> <p>(BOTTOM VIEW)</p>	<p><b>Contact configuration and indication of operation</b></p> <ul style="list-style-type: none"> <li>• 1a (NO contact)</li> <li>• No indicator (Transfer contact)</li> </ul>  <p>(BOTTOM VIEW)</p>

[ Mounting dimensions ]

Product discontinuation Model G2R-1(A)3-S[]	Recommendable replacement Model G7T-1122S										
<p><b>Connecting Sockets</b>                      P2RF-05, P2R-05 series                      Track/surface-mounting Socket</p> <table border="1" data-bbox="135 1720 774 1848"> <thead> <tr> <th>Screwless clamp terminal</th> <th>Screw terminal</th> </tr> </thead> <tbody> <tr> <td>P2RF-05S+ (P2CM-S (option))</td> <td>P2RF-05-E P2RF-05</td> </tr> </tbody> </table> <p>Back-mounting Socket</p> <table border="1" data-bbox="135 1915 774 2027"> <thead> <tr> <th>Terminals</th> <th>Model</th> </tr> </thead> <tbody> <tr> <td>PCB terminals</td> <td>P2R-05P, P2R-057P</td> </tr> <tr> <td>Solder terminals</td> <td>P2R-05A</td> </tr> </tbody> </table>	Screwless clamp terminal	Screw terminal	P2RF-05S+ (P2CM-S (option))	P2RF-05-E P2RF-05	Terminals	Model	PCB terminals	P2R-05P, P2R-057P	Solder terminals	P2R-05A	<p><b>Table body style1</b>                      P7TF-05</p>
Screwless clamp terminal	Screw terminal										
P2RF-05S+ (P2CM-S (option))	P2RF-05-E P2RF-05										
Terminals	Model										
PCB terminals	P2R-05P, P2R-057P										
Solder terminals	P2R-05A										

[ Dimensions ]

Product discontinuation Model G2R-1(A)3-S[]	Recommendable replacement Model G7T-1122S
<p><b>G2R-13-S([])</b></p>  <p>29 MAX. &lt;1.141&gt; 13 MAX. &lt;0.511&gt; 2.5 20 29 MAX. &lt;1.141&gt; 0.5 4.75 5 7.5 5.2 5.2 17.5</p> <p>&lt; &gt; in Inches</p> <p><b>G2R-1A3-S</b></p>  <p>29 MAX. &lt;1.141&gt; 13 MAX. &lt;0.511&gt; 2.5 20 29 MAX. &lt;1.141&gt; 0.5 4.75 5 7.5 5.2 5.2 17.5</p> <p>&lt; &gt; in Inches</p>	 <p>10以下 32以下 39以下 15±0.1 1.6 2.4 0.5 4-φ1穴 3.15 10以下 4 29以下 33.5以下</p>

[ Characteristics, Operation ratings and Operation methods ]

Item	Product discontinuation Model G2R-1(A)3-S[]	Recommendable replacement Model G7T-1122S
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■ Ratings

● Coil Ratings

Product discontinuation G2R-1(A)3-S[]

Rated voltage		Rated current *		Coil Resistance *	Must operate voltage	Must release voltage	Power consumption (approx.)	Max. voltage
		50Hz	60Hz					
AC	230 V	4.2 mA	3.6 mA	27,172 Ω	80% max.	30% min.	0.6 to 0.8 VA at 60 Hz	110%
DC	12 V	43.6 mA		275 Ω	70% max.	15% min.	0.53 W	110%
	24 V	21.8 mA		1,113 Ω				

\* The rated current and coil resistance are measured at a coil temperature of 20°C with tolerances of ±10%.

\* The operating characteristics values are for a coil temperature of 23°C.

\* The maximum voltage is one that is applicable to the Relay coil instantaneously at 23°C and not continuously.

Recommendable replacement G7T-1122S

Rated voltage		Rated current *		Coil Resistance *	Must operate voltage	Must release voltage	Power consumption (approx.)	Max. voltage
		50Hz	60Hz					
AC	200/220 V	4.1/4.5 mA	3.5/3.85 mA	33,300 Ω	80% max.	30% min.	0.7 VA	110%
DC	12 V	42 mA		290 Ω	80% max.	10% min.	0.50 W	110%
	24 V	21 mA		1,150 Ω				

\* The rated current and coil resistance values are measured at a coil temperature of 23°C.

Tolerances of AC rated current

\* The operating characteristics values are for a coil temperature of 23°C.

\* The maximum voltage is one that is applicable to the Relay coil instantaneously at 23°C and not continuously.

Item	Product discontinuation Model G2R-1(A)3-S[]	Recommendable replacement Model G7T-1122S
<b>■ Ratings</b> <b>● Contact Ratings</b>		
Number of poles	1 pole (Switching contact (G2R-13-S[])/ NO contact (G2R-1A3-S[]))	1 pole <b>(NO contact)</b>
Contact mechanism	Crossbar bifurcate	Crossbar bifurcated
Contact material	AgAu-clad Ag	AgAu-clad Ag
Load	Resistive load (cosφ 1)	Resistive load (cosφ 1)
Rated load	1 A at 250 VAC, 1 A at 30 VDC	<b>1 A at 110 VAC, 1 A at 24 VDC</b>
Rated carry current	1 A	1 A
Max. switching voltage	380 VAC, 125 VDC	<b>250 VAC, 125 VDC</b>
Max. switching current	1 A	1 A
Max. switching power	250 VA, 30 W	<b>110 VA, 24 W</b>
Failure rate (reference value) *	1 mA at 5 VDC	<b>100 μA at 1 VDC</b>
* P level: λ60 = 0.1 × 10 <sup>-6</sup> / operation		
<b>■ Characteristics</b>		
Contact resistance	100 mΩ max.	<b>50 mΩ max.</b>
Operate(set) time	15 ms max.	15 ms max.
Release(reset) time	AC: 10 ms max.; DC: 5 ms max. (w/built-in diode: 20ms max.)	<b>15 ms max.</b>
Max. operating frequency	Mechanical: 18,000 ops./hour Electrical: 1,800 ops./hour (under rated load)	Mechanical: 18,000 ops./hour Electrical: 1,800 ops./hour (under rated load)
Insulation resistance	1,000 MΩ min. (at 500 VDC)	100 MΩ min. (at 500 VDC)
Dielectric strength	5,000 VAC, 50/60 Hz for 1 min between coil and contacts *; 1,000 VAC 50/60Hz for 1min between contacts of same polarity	<b>2,000 VAC</b> , 50/60 Hz for 1 min between coil and contacts; 1,000 VAC 50/60Hz for 1min between contacts of same polarity
Vibration resistance	Destruction: 10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude) Malfunction: 10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)	Destruction: 10 to 55 to 10 Hz, <b>0.5 mm</b> single amplitude <b>(1.0 mm</b> double amplitude) Malfunction: 10 to 55 to 10 Hz, <b>0.5 mm</b> single amplitude <b>(1.0 mm</b> double amplitude)
Shock resistance	Destruction: 1,000 m/s <sup>2</sup> Malfunction: 200 m/s <sup>2</sup> when energized; 100 m/s <sup>2</sup> when not energized	<b>Destruction: 200 m/s<sup>2</sup></b> Malfunction: 200 m/s <sup>2</sup>
Endurance	Mechanical: AC coil: 10,000,000 ops. min.; DC coil; 20,000,000 ops. min. Electrical: 100,000 oprs min. (DC coil type)	Mechanical: <b>50,000,000 ops.</b> Electrical: <b>100,000 ops. (10 mA) or</b> <b>50,000 ops. (1 A)</b>
Ambient temperature	Operating: -40°C to 70°C (with no icing or condensation)	Operating: -40°C to 70°C (with no icing or condensation)
Ambient humidity	Operating: 5% to 85% (with no icing or condensation)	Operating: 5% to 85% (with no icing or condensation)
Weight	Approx. 21 g	Approx. 17 g
Note; Values in the above table are the initial values.		
* 4,000 VAC, 50/60Hz for 1 minute when the P2R-05A Socket is mounted.		
<b>■ Approved Standards</b>		
UL	File No. E41643	File No. E41643
CSA	File No. LR31928	File No. LR35535

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.