

## Product Discontinuation Notices

February 1, 2012

Safety Relays

No. 2012037E

### Discontinuation Notice of Safety Relay and Socket. G7S series, P7S series

#### Product Discontinuation



Safety Relay  
**G7S series**  
Socket  
**P7S series**



#### Recommended Replacement

Safety Relay  
**G7S-E series**  
Socket  
**P7S-E series**

**Discontinuation date : The end of March, 2013**

#### Difference from discontinued product

Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
G7S-E	**	**	**	**	*	**	-
P7S-14F-END	**	--	**	**	--	-	-
P7S-14P-E	**	--	**	**	*	-	-

\*\* : Fully compatible

\* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

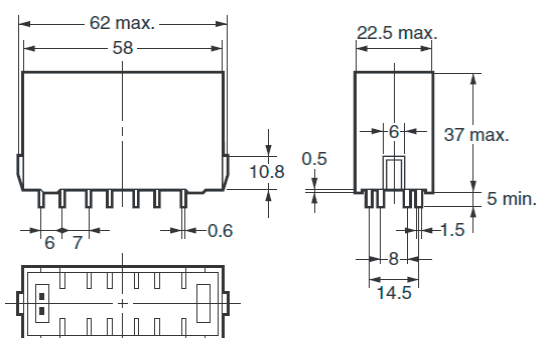
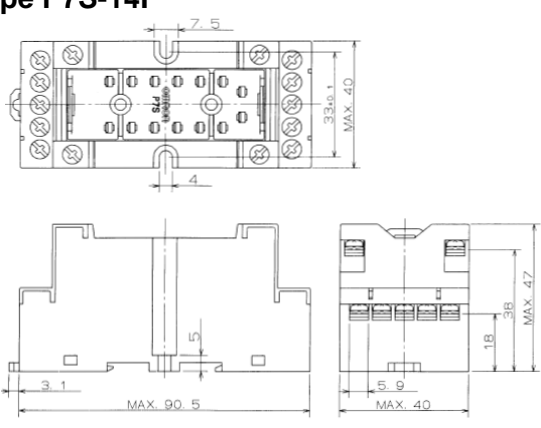
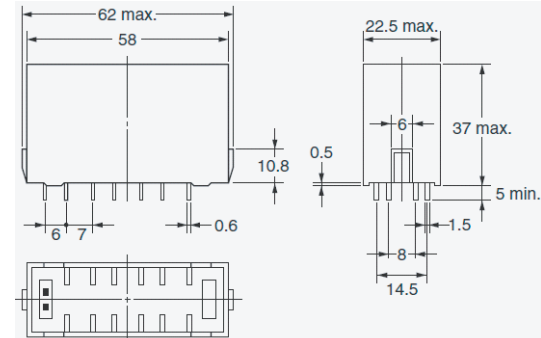
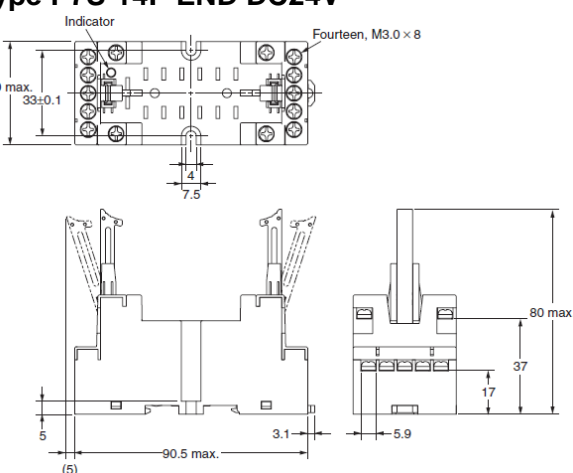
#### Product Discontinuation and recommended replacement

Product discontinuation	Recommended replacement
G7S-3A3B DC24V	G7S-3A3B-E DC24V
G7S-4A2B DC24V	G7S-4A2B-E DC24V
P7S-14F	P7S-14F-END DC24V
P7S-14F-ND DC24V	P7S-14F-END DC24V
P7S-14P	P7S-14P-E
P7S-B (desorbed clasp)	No recommended replacement

## Body color

Product discontinuation	Recommendable replacement
<p>G7S series : Bister                      Type P7S-14F : Ivory                      Type P7S-14F-ND DC24V : Ivory                      Type P7S-14P : Black                      P7S-B : Silver</p>	<p>G7S-E series : Bister                      Type P7S-14F-END DC24V : Ivory                      Type P7S-14F-END DC24V : Ivory                      Type P7S-14P-E : Black                      -</p>

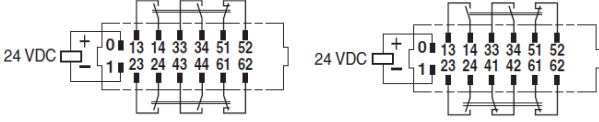
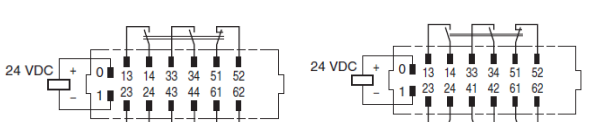
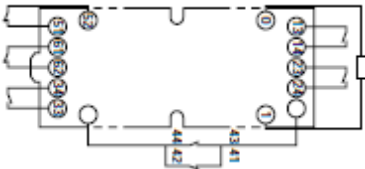
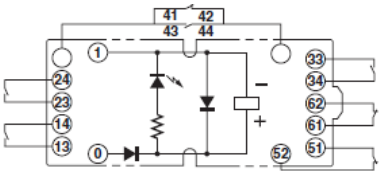
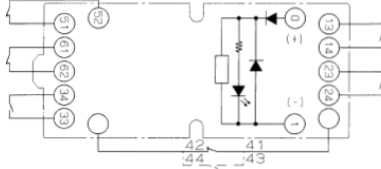
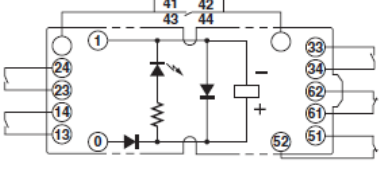

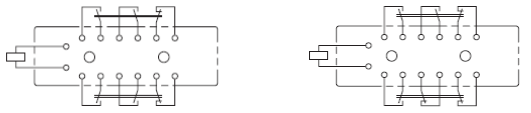
## Dimensions

Product discontinuation	Recommendable replacement
<p><b>G7S series</b></p>  <p><b>Type P7S-14F</b></p> 	<p><b>G7S-E series</b></p>  <p><b>Type P7S-14F-END DC24V</b></p> 

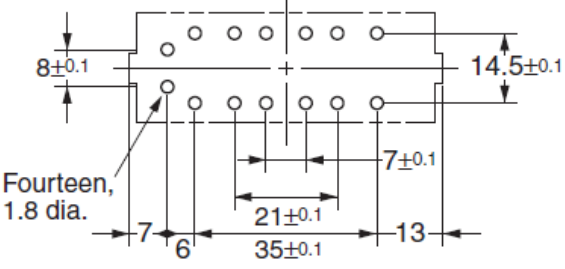

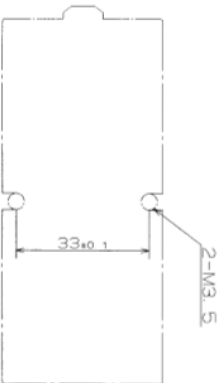
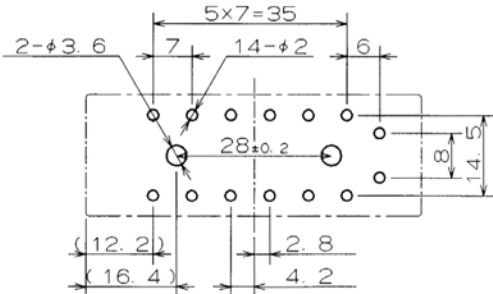
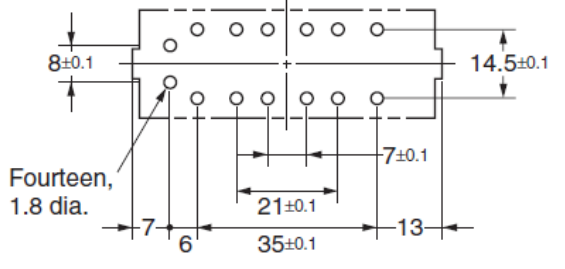
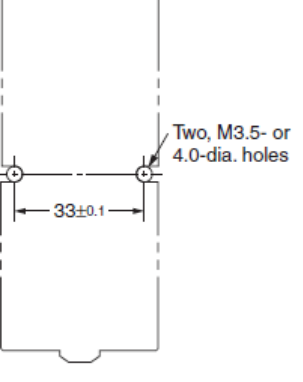
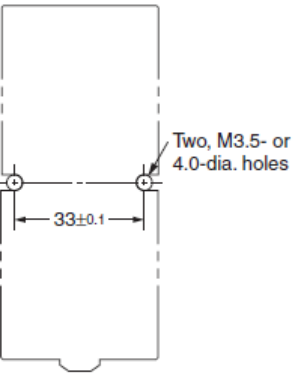
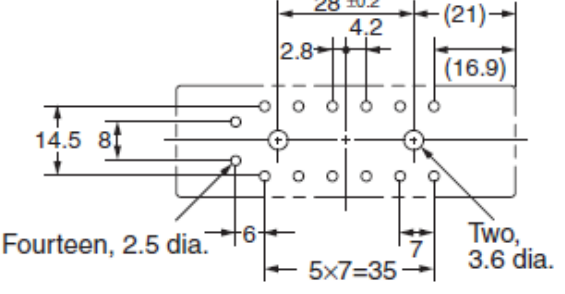
# Dimensions

Product discontinuation	Recommendable replacement
<p><b>Type P7S-14F-ND DC24V</b></p>	<p><b>Type P7S-14F-END DC24V</b></p>
<p><b>P7S-14P</b></p> <p>Two-<math>\phi 6.5</math> dia x 7.9 depth</p>	<p><b>P7S-14P-E</b></p>

## Wire Connection

Product discontinuation	Recommendable replacement
<p><b>G7S series</b> (Bottom View)</p> <p>Type G7S-4A2B      Type G7S-3A3B</p> 	<p><b>G7S-E series</b> (Bottom View)</p> <p>Type G7S-4A2B-E      Type G7S-3A3B-E</p> 
<p><b>Type P7S-14F</b> (Top View)</p> 	<p><b>Type P7S-14F-END DC24V</b> (Top View)</p> 
<p><b>Type P7S-14F-ND DC24V</b> (Top View)</p> 	<p><b>Type P7S-14F-END DC24V</b> (Top View)</p> 
<p><b>P7S-14P</b> (Bottom View)</p> <p>Type G7S-4A2B      Type G7S-3A3B</p> 	<p><b>P7S-14P-E</b> (Bottom View)</p> <p>Type G7S-4A2B-E      Type G7S-3A3B-E</p> 

**Mounting dimensions**

Product discontinuation	Recommendable replacement
<p><b>G7S series</b></p>  <p><b>Type P7S-14F</b></p>  <p><b>Type P7S-14F-ND DC24V</b></p>  <p><b>P7S-14P</b></p> 	<p><b>G7S-E series</b></p>  <p><b>Type P7S-14F-END DC24V</b></p>  <p><b>Type P7S-14F-END DC24V</b></p>  <p><b>P7S-14P-E</b></p> 

## Characteristics

Product discontinuation	Recommendable replacement																						
<p><b>G7S series</b></p> <p><b>Dielectric strength</b>            2,500VAC, 50/60Hz for 1min            (1,500 VAC between contacts of same polarity)</p> <p><b>Contacts</b>            Rated load</p> <table data-bbox="220 1048 699 1137"> <tr> <td>Resistive load</td> <td>Inductive Load (*3)</td> </tr> <tr> <td>3A at 240VAC</td> <td>3A at 240VAC</td> </tr> <tr> <td>3A at 24VDC</td> <td>1A at 24VDC</td> </tr> </table> <p>Rated carry current: 6A            Maximum switching voltage : 250VAC, 24VDC            Maximum switching current: 6A</p> <p>*3. <math>\cos\phi = 0.4</math>, L/R=7ms</p>	Resistive load	Inductive Load (*3)	3A at 240VAC	3A at 240VAC	3A at 24VDC	1A at 24VDC	<p><b>G7S-E series</b></p> <p><b>Dielectric strength</b>            Between coil and contacts:            Between coil and pole 3 or coil and pole 4: 4,000 VAC, 50/60 Hz for 1 min            Other than the above: 2,500 VAC, 50/60 Hz for 1 min            - Between different poles:            Between pole 1, 3, or 5 and pole 2, 4, or 6: 4,000 VAC, 50/60 Hz for 1 min            Other than the above: 2,500 VAC, 50/60 Hz for 1 min            - Between contacts of same polarity:            1,500 VAC, 50/60 Hz for 1 min</p> <p>*1. When using a P7S Socket, the dielectric strength between coil and contacts and between different poles is 2,000 VAC, 50/60 Hz for 1 min.            *2. The coil refers to terminals 0-1, pole 1 refers to terminals 13-14, pole 2 refers to terminals 23-24, pole 3 refers to terminals 33-34, pole 4 refers to terminals 41-42 or 43-44, pole 5 refers to terminals 51-52, and pole 6 refers to terminals 61-62.</p> <p><b>Contacts</b>            Rated load</p> <table data-bbox="815 1048 1305 1281"> <tr> <td colspan="2">NO contact</td> </tr> <tr> <td>Resistive load</td> <td>Inductive Load (*4)</td> </tr> <tr> <td>10A at 250VAC</td> <td>AC15: 5A at 240VAC</td> </tr> <tr> <td>10A at 30VDC</td> <td>DC13: 2A at 24VDC</td> </tr> <tr> <td colspan="2">NC contact</td> </tr> <tr> <td>Resistive load</td> <td>Inductive Load (*3)</td> </tr> <tr> <td>6A at 250VAC</td> <td>AC15: 3A at 240VAC</td> </tr> <tr> <td>6A at 30VDC</td> <td>DC13: 2A at 24VDC</td> </tr> </table> <p>Rated carry current            NO contact : 10A            NC contact : 6A            Maximum switching voltage : 250VAC, 30VDC            Maximum switching current            NO contact: 10A            NC contact: 6A</p> <p>*4. In the above table, <math>\cos\phi = 0.3</math> for AC-15 inductive loads and L/R = 96 ms for DC-13 inductive loads.</p>	NO contact		Resistive load	Inductive Load (*4)	10A at 250VAC	AC15: 5A at 240VAC	10A at 30VDC	DC13: 2A at 24VDC	NC contact		Resistive load	Inductive Load (*3)	6A at 250VAC	AC15: 3A at 240VAC	6A at 30VDC	DC13: 2A at 24VDC
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## Characteristics

Product discontinuation	Recommendable replacement
<p><b>Type P7S-14F</b>  <b>Ratings</b>            Rated carry current : 6A  <b>Characteristics (Initial value)</b>            Contact resistance: 30 m ohm MAX.            * Measured by the voltage drop method with DC5V 10mA applied.  <b>Dielectric strength</b>            Between coil and contact terminal : 2000VAC            Between contact terminals of different polarity : 2000AC            Between contact terminals of same polarity : 2000VAC            * Leakage current 2mA 50/60Hz for 1 minute.  <b>Operating conditions</b>            Humidity : 5 to 85 %RH</p>	<p><b>Type P7S-14F-END DC24V</b>  <b>Ratings</b>            Rated carry current : 10A  <b>Characteristics(Initial value)</b>            Contact resistance: 50 m ohm MAX.            * Measured by the voltage drop method with DC5V 10mA applied.  <b>Dielectric strength</b>            Between coil and contact terminal : 2000VAC            Between contact terminals of different polarity : 2000AC            Between contact terminals of same polarity : 1500VAC            * Leakage current 10mA 50/60Hz for 1 minute.  <b>Operating conditions</b>            Humidity : 35 to 85 %RH</p>
<p><b>Type P7S-14F-ND DC24V</b>  <b>Ratings</b>            Rated carry current : 6A  <b>Characteristics (Initial value)</b>            Contact resistance: 30 m ohm MAX.            * Measured by the voltage drop method with DC5V 10mA applied.  <b>Dielectric strength</b>            Between coil and contact terminal : 2000VAC            Between contact terminals of different polarity : 2000AC            Between contact terminals of same polarity : 2000VAC            * Leakage current 10mA 50/60Hz for 1 minute.  <b>Operating conditions</b>            Humidity : 5 to 85 %RH</p>	<p><b>Type P7S-14F-END DC24V</b>  <b>Ratings</b>            Rated carry current : 10A  <b>Characteristics(Initial value)</b>            Contact resistance: 50 m ohm MAX.            * Measured by the voltage drop method with DC5V 10mA applied.  <b>Dielectric strength</b>            Between coil and contact terminal : 2000VAC            Between contact terminals of different polarity : 2000AC            Between contact terminals of same polarity : 1500VAC            * Leakage current 10mA 50/60Hz for 1 minute.  <b>Operating conditions</b>            Humidity : 35 to 85 %RH</p>
<p><b>P7S-14P</b>  <b>Ratings</b>            Rated carry current : 6A  <b>Characteristics (Initial value)</b>            Contact resistance: 10 m ohm MAX.            * Measured by the voltage drop method with DC5V 10mA applied.  <b>Dielectric strength</b>            Between coil and contact terminal : 2000VAC            Between contact terminals of different polarity : 2000AC            Between contact terminals of same polarity : 1500VAC            * Leakage current 2mA 50/60Hz for 1 minute.</p>	<p><b>P7S-14P-E</b>  <b>Ratings</b>            Rated carry current : 10A  <b>Characteristics(Initial value)</b>            Contact resistance: 50 m ohm MAX.            * Measured by the voltage drop method with DC5V 10mA applied.  <b>Dielectric strength</b>            Between coil and contact terminal : 2000VAC            Between contact terminals of different polarity : 2000AC            Between contact terminals of same polarity : 1500VAC            * Leakage current 1mA 50/60Hz for 1 minute.</p>

## Operation ratings

Product discontinuation	Recommendable replacement
<p><b>G7S series</b></p> <p>Rated voltage : 24VDC            Rated current (mA) : 30            Coil resistance (<math>\Omega</math>) : 800            Must operate voltage (V) : 80% max.            Must release voltage (V) : 10% min            Max voltage(V) : 110%            Power consumption (W) : Approx 0.8</p> <p>*5. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of <math>\pm 15\%</math>.</p> <p>*6. Performance characteristics are based on a coil temperature of 23°C.</p> <p>*7. The maximum voltage is based on an ambient operating temperature of 23°C maximum.</p>	<p><b>G7S-E series</b></p> <p>Rated voltage : 24VDC            Rated current (mA) : 30            Coil resistance (<math>\Omega</math>) : 800            Must operate voltage (V) : 80% max.            Must release voltage (V) : 10% min            Max voltage (V) : 110%            Power consumption (W) : Approx 0.8</p> <p>*8. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of <math>\pm 15\%</math>.</p> <p>*9. Performance characteristics are based on a coil temperature of 23°C.</p> <p>*10. The maximum voltage is based on an ambient operating temperature of 23°C maximum.</p>