

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

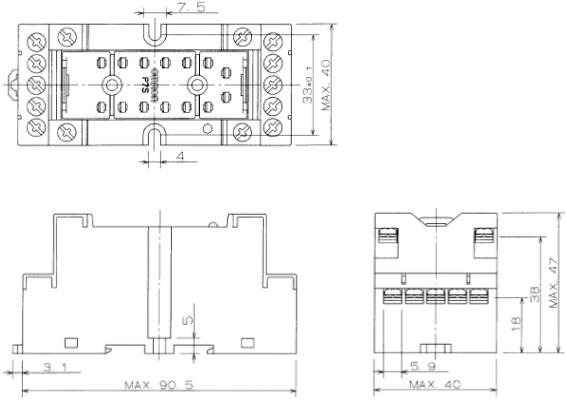
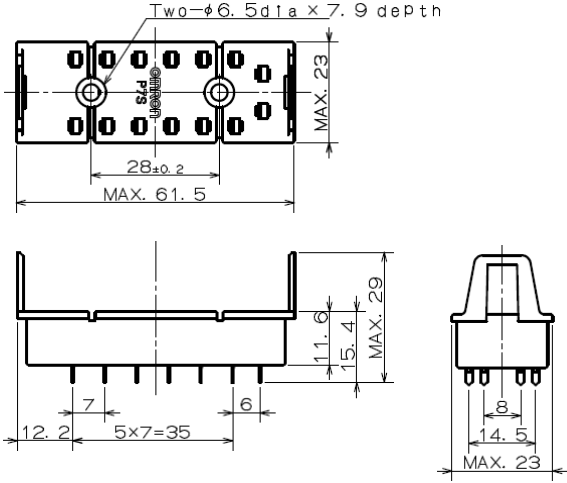
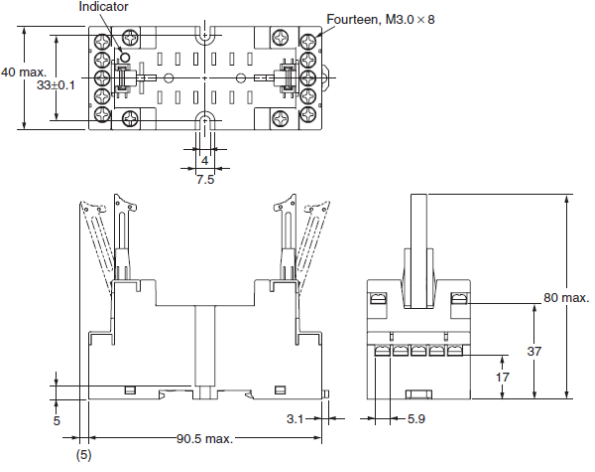
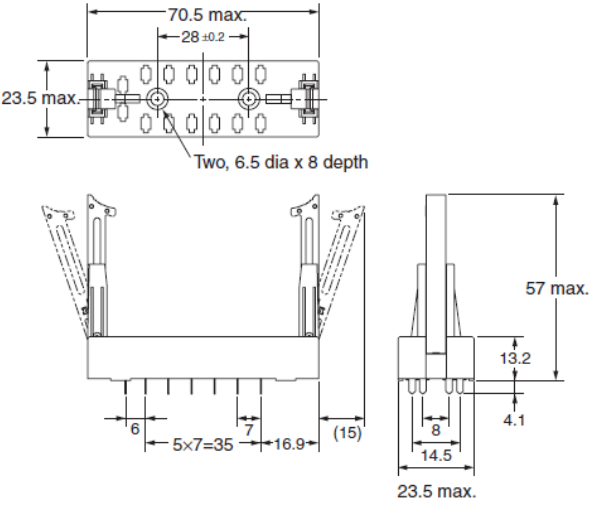
Body color

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

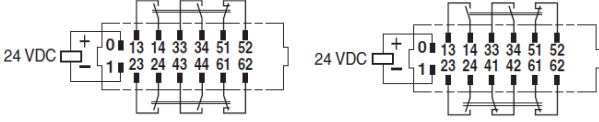
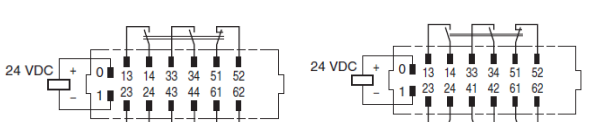
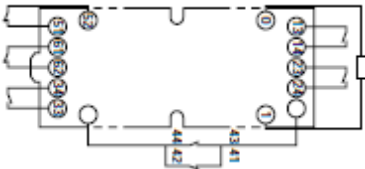
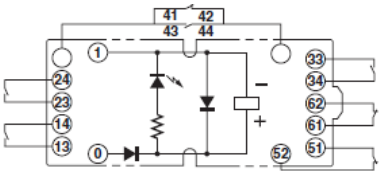
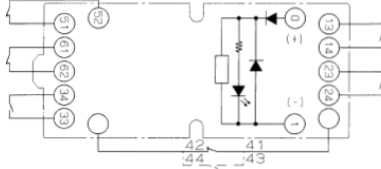
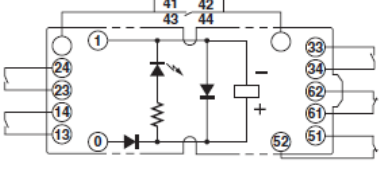

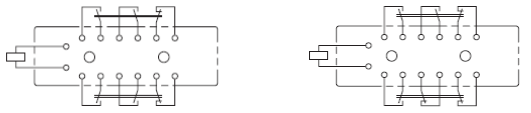
Dimensions

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

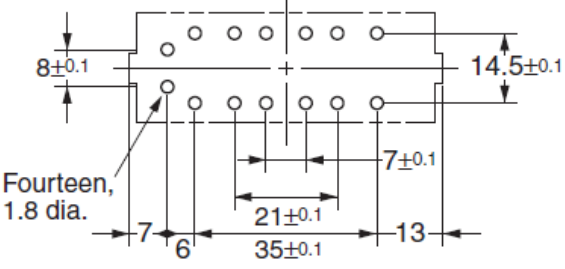

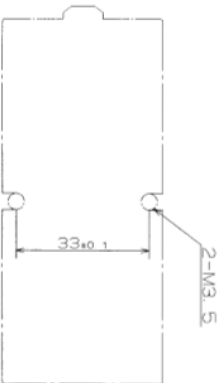
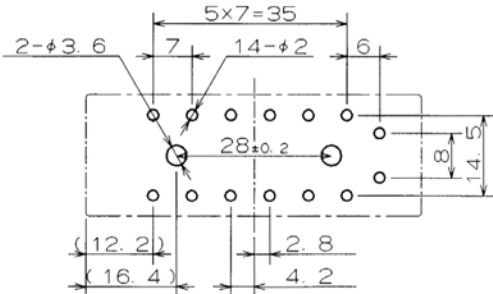
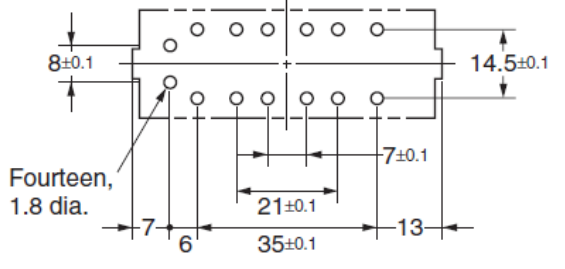
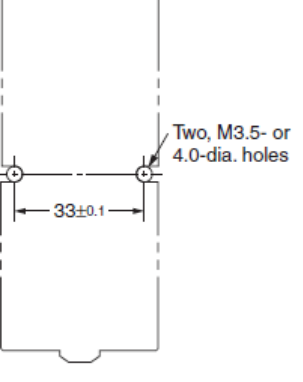
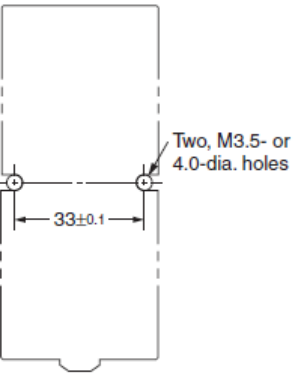
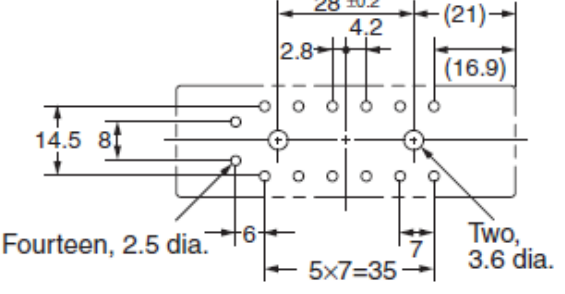
Dimensions

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

Wire Connection

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

Mounting dimensions

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

Characteristics

Product discontinuation	Recommendable replacement																						
<p>G7S series</p> <p>Dielectric strength 2,500VAC, 50/60Hz for 1min (1,500 VAC between contacts of same polarity)</p> <p>Contacts Rated load</p> <table border="0"> <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. $\cos\phi = 0.4$, L/R=7ms</p>	Resistive load	Inductive Load (*3)	3A at 240VAC	3A at 240VAC	3A at 24VDC	1A at 24VDC	<p>G7S-E series</p> <p>Dielectric strength 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>Contacts Rated load</p> <table border="0"> <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, $\cos\phi = 0.3$ 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>Type P7S-14F Ratings Rated carry current : 6A Characteristics (Initial value) Contact resistance: 30 m ohm MAX. * Measured by the voltage drop method with DC5V 10mA applied. Dielectric strength 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. Operating conditions Humidity : 5 to 85 %RH</p>	<p>Type P7S-14F-END DC24V Ratings Rated carry current : 10A Characteristics(Initial value) Contact resistance: 50 m ohm MAX. * Measured by the voltage drop method with DC5V 10mA applied. Dielectric strength 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. Operating conditions Humidity : 35 to 85 %RH</p>
<p>Type P7S-14F-ND DC24V Ratings Rated carry current : 6A Characteristics (Initial value) Contact resistance: 30 m ohm MAX. * Measured by the voltage drop method with DC5V 10mA applied. Dielectric strength 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. Operating conditions Humidity : 5 to 85 %RH</p>	<p>Type P7S-14F-END DC24V Ratings Rated carry current : 10A Characteristics(Initial value) Contact resistance: 50 m ohm MAX. * Measured by the voltage drop method with DC5V 10mA applied. Dielectric strength 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. Operating conditions Humidity : 35 to 85 %RH</p>
<p>P7S-14P Ratings Rated carry current : 6A Characteristics (Initial value) Contact resistance: 10 m ohm MAX. * Measured by the voltage drop method with DC5V 10mA applied. Dielectric strength 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>P7S-14P-E Ratings Rated carry current : 10A Characteristics(Initial value) Contact resistance: 50 m ohm MAX. * Measured by the voltage drop method with DC5V 10mA applied. Dielectric strength 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>G7S series</p> <p>Rated voltage : 24VDC Rated current (mA) : 30 Coil resistance (Ω) : 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 $\pm 15\%$. *6. Performance characteristics are based on a coil temperature of 23°C. *7. The maximum voltage is based on an ambient operating temperature of 23°C maximum.</p>	<p>G7S-E series</p> <p>Rated voltage : 24VDC Rated current (mA) : 30 Coil resistance (Ω) : 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 $\pm 15\%$. *9. Performance characteristics are based on a coil temperature of 23°C. *10. The maximum voltage is based on an ambient operating temperature of 23°C maximum.</p>