

## Discontinuation Notice of General purpose relay MK-I/-S series



### Product Discontinuation

### Recommended Replacement



General-purpose relays  
MK-I/-S models



General-purpose relays  
MK-S series (New models)

Discontinuation date : The **end of JUNE, 2009**

#### Caution on recommended replacement

Safety standard approvals of new MKS series are UL, CSA, and TUV. (SEV, DEMKO, NEMKO, SEMKO and VDE are not approved.)  
Specifications are not fully compatible.

#### Difference from discontinued product

Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
MK2P-I series	*	**	**	*	*	*	**
MK3P-I series	*	**	**	*	*	*	**
MK2P-S series	*	**	**	*	*	*	**
MK3P-S series	*	**	**	*	*	*	**

\*\* : Fully compatible

\* : The change is a little / Almost compatible

-- : Not compatible



- : No corresponding specification

## Product Discontinuation and recommended replacement

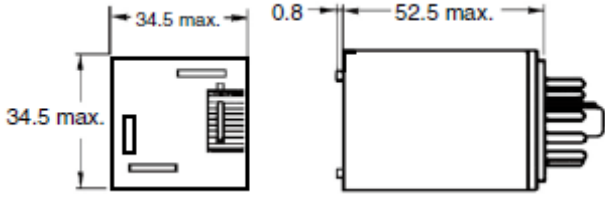
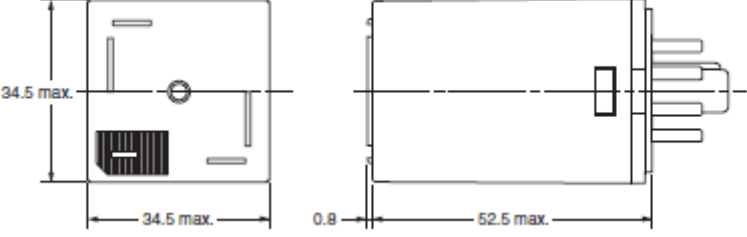
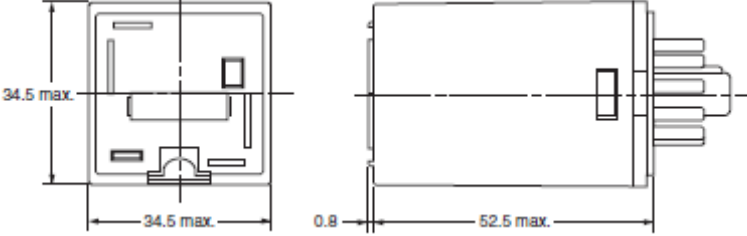
Please refer to the attached Excel File.

Note Country of Origin change (MK = Indonesia; MKS = China).

### Body color

Product discontinuation MK-I/-S	Recommended replacement MK-S(New model)
 <p data-bbox="103 985 462 1019">Socket PF-E is the same</p>	 <p data-bbox="805 974 1165 1008">Socket PF-E is the same</p>

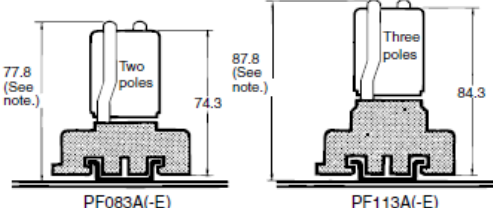
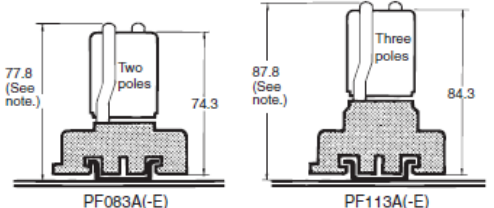
### Dimensions

Product discontinuation MK-I/-S	Recommended replacement MK-S(New model)
	<p data-bbox="790 1276 1212 1310"><b>Models without Test Button</b></p>  <p data-bbox="782 1635 1276 1668"><b>Models with Locking Test Button</b></p> 

## Wire Connection

New MK-S models are pin-compatible with MK-I/-S series.

## Mounting dimensions

Product discontinuation MK-I/-S	Recommended replacement MK-S(New model)
<p data-bbox="167 573 438 600">Surface-mounting Sockets</p>  <p data-bbox="167 828 742 873">Note: PF083A(-E) and PF113A(-E) allow either track or screw mounting.</p>	<p data-bbox="853 573 1125 600">Surface-mounting Sockets</p>  <p data-bbox="853 828 1460 851">Note: PF083A(-E) and PF113A(-E) allow either track or screw mounting.</p>

## Characteristics

Product discontinuation MK-I/-S	Recommended replacement MK-S(New model)
<p data-bbox="103 1131 311 1164">1. Coil ratings</p> <ul data-bbox="119 1176 718 1400" style="list-style-type: none"> <li>-Must release voltage for AC coils 30% min. of rated voltage (50Hz, 60Hz)</li> <li>-Power consumption for DC coils Approx. 1.5W</li> </ul> <p data-bbox="103 1422 367 1456">2. Contact ratings</p> <ul data-bbox="119 1467 750 1691" style="list-style-type: none"> <li>-Contact material Ag</li> <li>-Rated load(resistive NO: 28VDC 10A)</li> <li>-Rated load(resistive NC: 250VAC 10A)</li> <li>-Rated load(resistive NC: 28VDC 10A)</li> <li>UL Res Load Rating 10A 250VAC/28VDC</li> </ul> <p data-bbox="103 1713 367 1747">3. Characteristics</p> <ul data-bbox="119 1758 670 2027" style="list-style-type: none"> <li>-Contact resistance 50m ohm max.</li> <li>-Endurance (Mechanical) 10,000,000 operations</li> <li>-Weight Approx. 85g</li> <li>-Ambient temperature (operating) -10C to 40C</li> </ul>	<p data-bbox="805 1131 1013 1164">1. Coil ratings</p> <ul data-bbox="821 1176 1324 1400" style="list-style-type: none"> <li>-Must release voltage for AC coils 25% min. of rated voltage (50Hz) 30% min. of rated voltage (60Hz)</li> <li>-Power consumption for DC coils Approx 1.4W</li> </ul> <p data-bbox="805 1422 1069 1456">2. Contact ratings</p> <ul data-bbox="821 1467 1452 1691" style="list-style-type: none"> <li>-Contact material AgSnIn</li> <li>-Rated load(resistive NO: 30VDC 10A)</li> <li>-Rated load(resistive NC: 250VAC 5A)</li> <li>-Rated load(resistive NC: 30VDC 5A)</li> <li>UL Res Load Rating 10A 250VAC/30VDC</li> </ul> <p data-bbox="805 1713 1069 1747">3. Characteristics</p> <ul data-bbox="821 1758 1396 2027" style="list-style-type: none"> <li>-Contact resistance 100m ohm max.</li> <li>-Endurance (Mechanical) 5,000,000 operations</li> <li>-Weight Approx. 90g</li> <li>-Ambient temperature (operating) -40C to 60C (LED Models -25C to 60C)</li> </ul>

Type	Contact form	Internal connection	Coil ratings	New MK-S		Current MK-S	
				With mechanical indicator	With mechanical indicator and <i>lockable testbutton</i>	With mechanical indicator	With mechanical indicator and pushbutton
Standard	DPDT	Standard	AC DC	MKS2P	MKS2PI	MK2P-I(-VD)	MK2P-S(-VD)
		Non-standard		MKS2P-2	MKS2PI-2	MK2P2-I(-VD)	MK2P2-S(-VD)
	3PDT	Non-standard		MKS3P	MKS3PI	MK3P-I(-VD)	MK3P-S(-VD)
		Non-standard		MKS3P-2	MKS3PI-2	MK3P2-I(-VD)	MK3P2-S(-VD)
		Standard		MKS3P-5	MKS3PI-5	MK3P5-I(-VD)	MK3P5-S(-VD)
Models with LED Indicator	DPDT	Standard	AC DC	MKS2PN(1)	MKS2PIN(1)	MK2PN(1)-I(-VD)	MK2PN(1)-S(-VD)
		Non-standard		MKS2PN(1)-2	MKS2PIN(1)-2	MK2PN(1)-2-I(-VD)	MK2PN(1)-2-S(-VD)
	3PDT	Non-standard		MKS3PN(1)	MKS3PIN(1)	MK3PN(1)-I(-VD)	MK3PN(1)-S(-VD)
		Non-Standard		MKS3PN(1)-2	MKS3PIN(1)-2	MK3PN(1)-2-I(-VD)	MK3PN(1)-2-S(-VD)
		Standard		MKS3PN(1)-5	MKS3PIN(1)-5	MK3PN(1)-5-I(-VD)	MK3PN(1)-5-S(-VD)
Models with Diode	DPDT	Standard	DC	MKS2P(1)-D	MKS2PI(1)-D	MK2PD(1)-I(-VD)	MK2PD(1)-S(-VD)
		Non-standard		MKS2P(1)-D-2	MKS2PI(1)-D-2	MK2PD(1)-2-I(-VD)	MK2PD(1)-2-S(-VD)
	3PDT	Non-standard		MKS3P(1)-D	MKS3PI(1)-D	MK3PD(1)-I(-VD)	MK3PD(1)-S(-VD)
		Non-Standard		MKS3P(1)-D-2	MKS3PI(1)-D-2	MK3PD(1)-2-I(-VD)	MK3PD(1)-2-S(-VD)
		Standard		MKS3P(1)-D-5	MKS3PI(1)-D-5	MK3PD(1)-5-I(-VD)	MK3PD(1)-5-S(-VD)
Models with Varistor	DPDT	Standard	AC	MKS2P-V	MKS2PI-V	MK2PV-I	MK2PV-S
		Non-standard		MKS2P-V-2	MKS2PI-V-2	MK2PV-2-I	MK2PV-2-S
	3PDT	Non-standard		MKS3P-V	MKS3PI-V	MK3PV-I	MK3PV-S
		Non-Standard		MKS3P-V-2	MKS3PI-V-2	MK3PV-2-I	MK3PV-2-S
		Standard		MKS3P-V-5	MKS3PI-V-5	MK3PV-5-I	MK3PV-5-S
Models with LED Indicator and Diode	DPDT	Standard	DC	MKS2PN-D	MKS2PIN-D	MK2PND-I	MK2PND-S
		Non-standard		MKS2PN-D-2	MKS2PIN-D-2	MK2PND-2-I	MK2PND-2-S
	3PDT	Non-standard		MKS3PN-D	MKS3PIN-D	MK3PND-I	MK3PND-S
		Non-Standard		MKS3PN-D-2	MKS3PIN-D-2	MK3PND-2-I	MK3PND-2-S
		Standard		MKS3PN-D-5	MKS3PIN-D-5	MK3PND-5-I	MK3PND-5-S
Models with LED Indicator and Varistor	DPDT	Standard	AC	MKS2PN-V	MKS2PIN-V	MK2PNV-I	MK2PNV-S
		Non-standard		MKS2PN-V-2	MKS2PIN-V-2	MK2PNV-2-I	MK2PNV-2-S
	3PDT	Non-standard		MKS3PN-V	MKS3PIN-V	MK3PNV-I	MK3PNV-S
		Non-Standard		MKS3PN-V-2	MKS3PIN-V-2	MK3PNV-2-I	MK3PNV-2-S
		Standard		MKS3PN-V-5	MKS3PIN-V-5	MK3PNV-5-I	MK3PNV-5-S