

# General Purpose Relays MKS

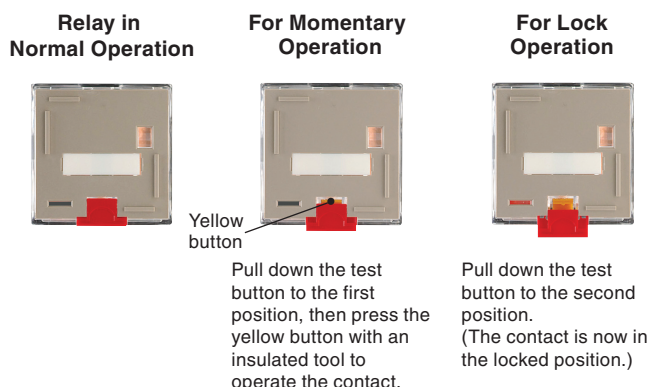
## Exceptionally Reliable General Purpose Relay now available with Lockable Test Button

- IEC Rating of 7A 250 V AC 50/60 Hz, General use 100,000 cycles.
- Mechanical indicator standard for all models.
- Optional features include lockable test button, LED indicator, diode surge suppression, varistor, reverse polarity, and alternate wiring styles.
- UL (RU/cRU), CE and TUV approved.
- RoHS Compliant.



## Features

### Two-way Action Test Button



## Model Number Structure

### Model Number Legend

MKS□□□□□□-□-□  
1 2 3 4 5 6 7

**1. Contact Form**

- 2: DPDT
- 3: 3PDT

**2. Terminals**

- P: Plug-in

**3. Mechanical Indicator/Test Button**

- Blank: Mechanical indicator
- I: Mechanical indicator and lockable test button

**4. LED Indicator**

- Blank: Standard
- N: LED indicator

**5. Coil Polarity**

- Blank: Standard
- 1: Reverse polarity (DC coil only)

**6. Surge Absorption**

- Blank: Standard
- D: Surge absorber diode (DC coil only)
- V: Surge absorber varistor (AC coil only)

**7. Internal Connections DPDT**

- Blank: Standard
- 2: Non Standard
- Internal Connections 3PDT
- 5: Standard
- Blank: Non Standard
- 2: Non Standard

**8. Rated Voltage**

(Refer to "Coil Ratings".)

# Ordering Information

## ■ List of Models

Type	Terminals	Contact form	Internal connections (See note 3.)	With mechanical indicator	With mechanical indicator and lockable test button	Coil ratings
Basic Models	Plug-in	DPDT	Standard	MKS2P	MKS2PI	AC/DC
			Non Standard	MKS2P-2	MKS2PI-2	
		3PDT	Standard	MKS3P-5	MKS3PI-5	
			Non Standard	MKS3P-2	MKS3PI-2	
				MKS3P	MKS3PI	
Models with LED Indicator (See note 2.)		DPDT	Standard	MKS2PN(1)	MKS2PIN(1)	AC/DC
			Non Standard	MKS2PN(1)-2	MKS2PIN(1)-2	
		3PDT	Standard	MKS3PN(1)-5	MKS3PIN(1)-5	
			Non Standard	MKS3PN(1)-2	MKS3PIN(1)-2	
				MKS3PN(1)	MKS3PIN(1)	
Models with Diode (See note 2.)		DPDT	Standard	MKS2P(1)-D	MKS2PI(1)-D	DC
			Non Standard	MKS2P(1)-D-2	MKS2PI(1)-D-2	
		3PDT	Standard	MKS3P(1)-D-5	MKS3PI(1)-D-5	
			Non Standard	MKS3P(1)-D-2	MKS3PI(1)-D-2	
				MKS3P(1)-D	MKS3PI(1)-D	
Models with LED Indicator and Diode		DPDT	Standard	MKS2PN-D	MKS2PIN-D	DC
			Non Standard	MKS2PN-D-2	MKS2PIN-D-2	
		3PDT	Standard	MKS3PN-D-5	MKS3PIN-D-5	
			Non Standard	MKS3PN-D-2	MKS3PIN-D-2	
				MKS3PN-D	MKS3PIN-D	
Models with Varistor		DPDT	Standard	MKS2P-V	MKS2PI-V	AC
			Non Standard	MKS2P-V-2	MKS2PI-V-2	
		3PDT	Standard	MKS3P-V-5	MKS3PI-V-5	
			Non Standard	MKS3P-V-2	MKS3PI-V-2	
				MKS3P-V	MKS3PI-V	
Models with LED Indicator and Varistor		DPDT	Standard	MKS2PN-V	MKS2PIN-V	AC
			Non Standard	MKS2PN-V-2	MKS2PIN-V-2	
		3PDT	Standard	MKS3PN-V-5	MKS3PIN-V-5	
			Non Standard	MKS3PN-V-2	MKS3PIN-V-2	
				MKS3PN-V	MKS3PIN-V	

**Note:** 1. When ordering, add the rated voltage to the model number. Rated voltages are given in the coil ratings table in the specifications.

Example: MKS2P DC48

Rated voltage

2. The DC coil comes in two types: standard coil polarity and reverse coil polarity. Refer to *Terminal Arrangement and Internal Connections*.

Example: MKS3PN1-5 DC24

Reverse coil polarity

3. Refer to *Terminal Arrangement and Internal Connections* for all wiring diagrams.

## ■ 10A Sockets (Order Separately)

Item	Type	Model
Track-mounted Socket	8-pin	PF083A-E
	11-pin	PF113A-E
	8-pin	PF083A-D
	11-pin	PF113A-D
Hold-down Clip (For PF083A-E and PF113A-E)		PFC-A1

# Specifications

## ■ Ratings

### Coil Ratings

Rated voltage	Rated current		Coil resistance	Must operate voltage	Must release voltage	Max. voltage	Power consumption	
	50 Hz	60 Hz						
AC	6 V	443 mA	385 mA	3.1 Ω	80% max. of rated voltage	30% min. of rated voltage at 60 Hz 25% min. of rated voltage at 50 Hz	110% of rated voltage	Approx. 2.3 VA at 60 Hz Approx. 2.7 VA at 50 Hz
	12 V	221 mA	193 mA	13.7 Ω				
	24 V	110 mA	96.3 mA	48.4 Ω				
	110 V	24.2 mA	21.0 mA	932 Ω				
	120 V	22.2 mA	19.3 mA	1,130 Ω				
	220 V	12.1 mA	10.5 mA	3,550 Ω				
	230 V	11.5 mA	10.0 mA	4,250 Ω				
	240 V	11.0 mA	9.6 mA	4,480 Ω				
DC	6 V	224 mA		26.7 Ω	15% min. of rated voltage		Approx. 1.4 W	
	12 V	112 mA		107 Ω				
	24 V	55.8 mA		430 Ω				
	48 V	28.1 mA		1,710 Ω				
	100 V	13.5 mA		7,390 Ω				
	110 V	12.3 mA		8,960 Ω				

- Note:**
1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/–20% for AC rated current and ±15% for DC coil resistance.
  2. Performance characteristic data are measured at a coil temperature of 23°C.
  3. The maximum voltage is one that is applicable instantaneously to the Relay coil at 23°C and not continuously.
  4. For DC-operated Relays with the LED indicator built-in, add an LED current of approx. 5 mA to the rated current.

### Contact Ratings

Load		Resistive load (cosφ = 1)	Inductive load (p.f. = 0.4)
Contact mechanism		Single	
Contact material		AgSnIn	
Rated load	NO	10 A, 250 VAC 10A, 30 VDC	7 A, 250 VAC
	NC	5 A, 250 VAC 5 A, 30 VDC	
Rated carry current		10 A	
Max. switching voltage		250 VAC, 250 VDC	
Max. switching current		10 A	
Max. switching capacity	NO	2,500 VA/300 W	
	NC	1,250 VA/150 W	

## ■ Characteristics

Contact resistance	100 mΩ max.
Operate time	AC: 20 ms max. DC: 30 ms max.
Release time	20 ms max.(40 ms max. for built-in diode models)
Max. operating frequency	Mechanical: 18,000 operations/hr (no load) Electrical:1,800 operations/hr (at rated load)
Insulation resistance	100 MΩ min. (at 500 VDC)
Dielectric strength	2,500 VAC 50/60 Hz for 1 min. between coil and contacts 1,000 VAC 50/60 Hz for 1 min. between contacts of same polarity and terminals of the same polarity 2,500 VAC 50/60 Hz for 1 min. between current-carrying parts, non-current-carrying parts, and opposite polarity
Insulation method	Basic insulation
Impulse withstand voltage	4.5 kV between coil and contacts (with 1.2 × 50 μs impulse wave) 3.0 kV between contacts of different polarity (with 1.2 × 50 μs impulse wave)
Pollution degree	3
Rated insulation voltage	250 V
Vibration resistance	Destruction:10 to 55 Hz, 1.5 mm double amplitude Malfunction:10 to 55 Hz, 1.0 mm double amplitude
Shock resistance	Destruction:1,000 m/s <sup>2</sup> (approx. 100 G) Malfunction:100 m/s <sup>2</sup> (approx. 10 G)
Life expectancy	Mechanical: 5,000,000 operations min. Electrical:100,000 operations min.
Min. permissible load	10 mA at 1 VDC P level: λ <sub>60</sub> =0.1 × 10 <sup>-6</sup> / ops
Ambient temperature	Operating: -40 to 60°C (with no icing or condensation)
Ambient humidity	Operating: 5% to 85%
Weight	Approx. 90 g

Note: 1. The values given above are initial values.  
2. Ambient temperature of models with LED indicator is -25 to 60°C.

## ■ Approved Standards

UL Recognized (File No. E41515) -- Ambient Temp. = 40°C

Coil ratings	Contact ratings		Operations
6 to 110 VDC 6 to 240 VAC	N.O. contact	10 A, 250 V AC 50/60 Hz (Resistive) 10 A, 30 V DC (Resistive) 7 A, 250 V AC 50/60 Hz (General Use)	100,000
	N.C. contact	10 A, 250 V AC 50/60 Hz (Resistive) 10 A, 30 V DC (Resistive) 7 A, 250 V AC 50/60 Hz (General Use)	100,000

Note: 10A UL ratings are with no load on the other contact set.

CSA Certified by 

IEC Standard/TUV Certification: IEC61810-1  
(Certification No. R50104853)

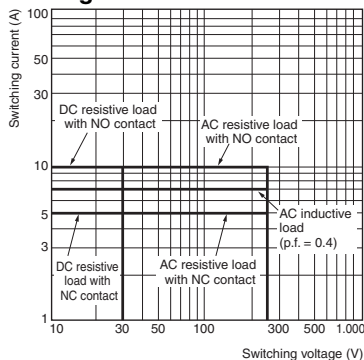
Coil ratings	Contact ratings		Operations
6, 12, 24, 48, 100, 110 VDC 6, 12, 24, 100, 110, 200, 220, 240 VAC	N.O. contact	10 A, 250 V AC 50/60 Hz (Resistive) 10 A, 30 V DC (Resistive) 7 A, 250 V AC 50/60 Hz (General Use)	100,000
	N.C. contact	5 A, 250 V AC 50/60 Hz (Resistive) 5 A, 30 V DC (Resistive) 7 A, 250 V AC 50/60 Hz (General Use)	100,000

Note: Maximum carrying current per TUV Certification is 9 A when new MK-S relays are mounted in PF083A-E or PF113A-E Sockets.

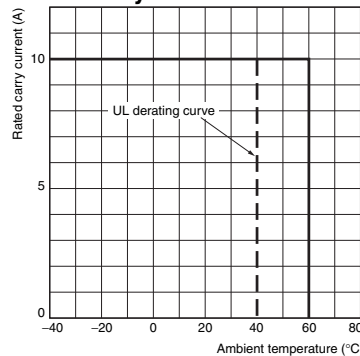
## Engineering Data

### ■ Reference Data

#### Maximum Switching Power



#### Rated Carry Current vs. Ambient Rated Temperature

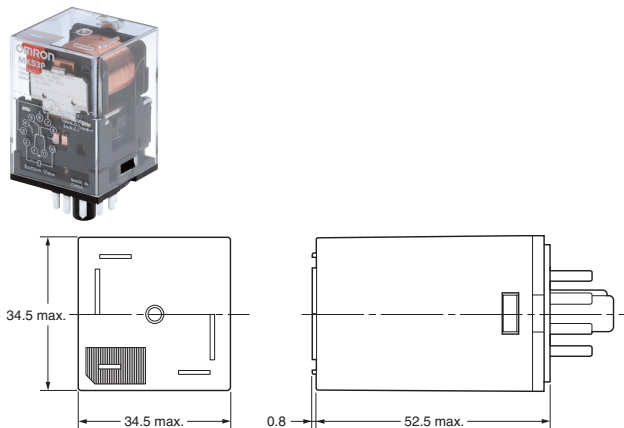


Note: The lower limit of the ambient operating temperature for models with built-in operation indicators is -25°C.

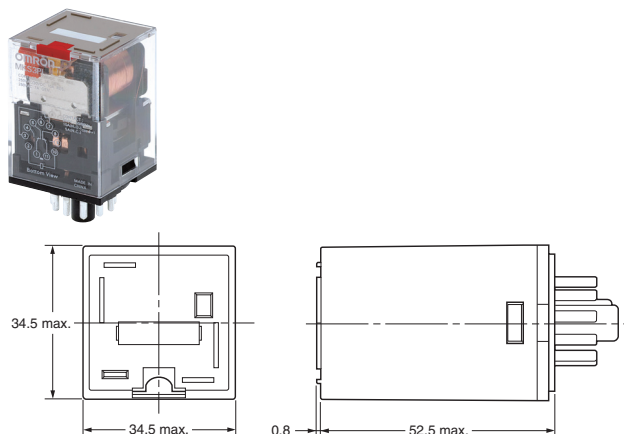
# Dimensions

Note: All units are in millimeters unless otherwise indicated.

## Models without Test Button


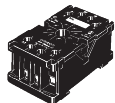
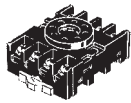

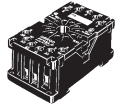



## Models with Lockable Test Button



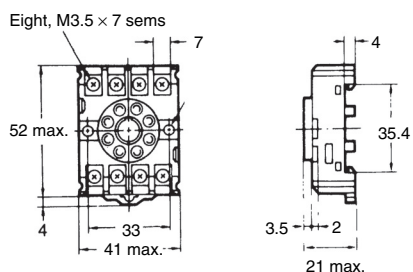
## Track Mounted Sockets

See below for Socket dimensions.

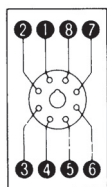
Poles	Finger-protection models		—
Maximum carry current	10 A		5 A
2 poles	PF083A-E 	PF083A-D 	PF083A 
3 poles	PF113A-E 	PF113A-D 	PF113A 

Note: If using the PF083A or PF113A Sockets, be sure the maximum carrying current is 5 A or less. When using finger-protection sockets, make sure the connecting wire terminals are Y-shaped.

### PF083A-E (Conforming to EN 5022)

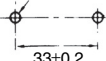


### Terminal Arrangement

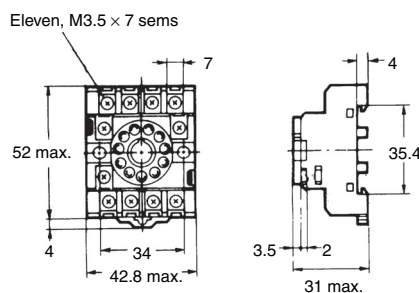


### Mounting Holes

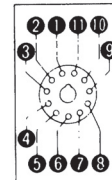
Two, M4 or two 4.5-dia. holes



### PF113A-E (Conforming to EN 5022)



### Terminal Arrangement

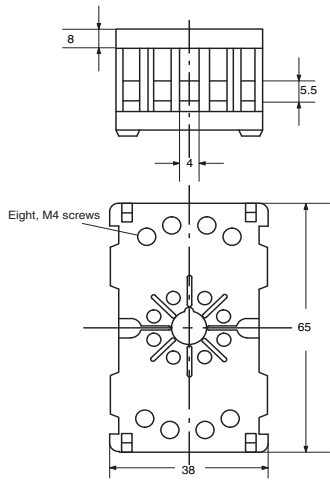


### Mounting Holes

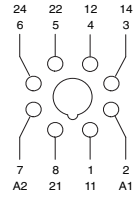
Two, M4 or two 4.5-dia. holes



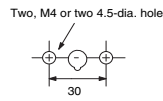
**PF083A-D**



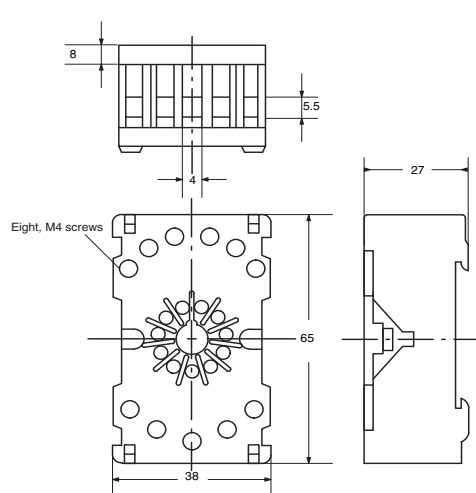
**Terminal Arrangement**



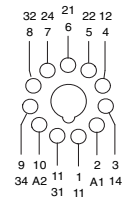
**Mounting Holes**



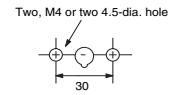
**PF113A-D**



**Terminal Arrangement**



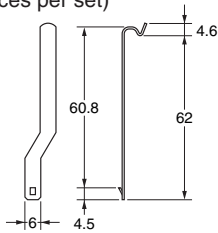
**Mounting Holes**



**Hold-down Clips**

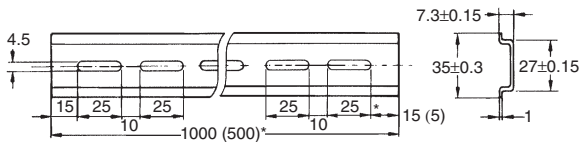
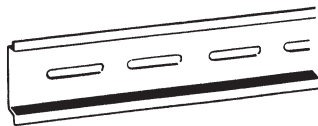
**PFC-A1**

(2 pieces per set)

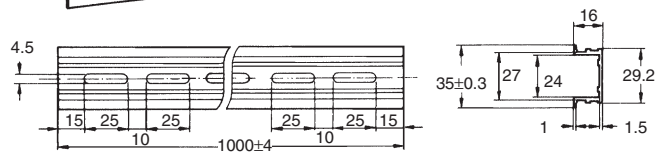
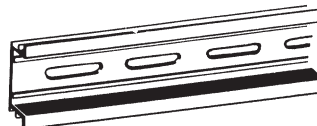


**Mounting Tracks**

**PFP-100N, PFP-50N  
(Conforming to EN 50022)**

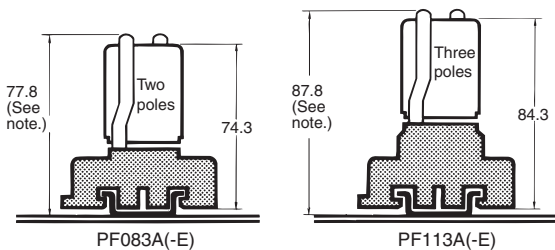


**PFP-100N2  
(Conforming to EN 50022)**



\* The figure in parenthesis is for PFP-50N.

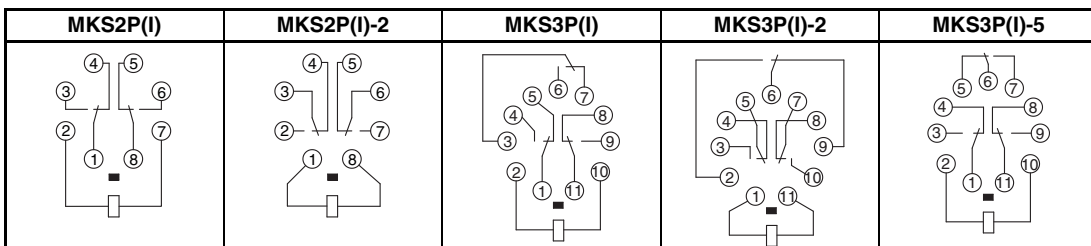
**Mounting Height with Sockets**



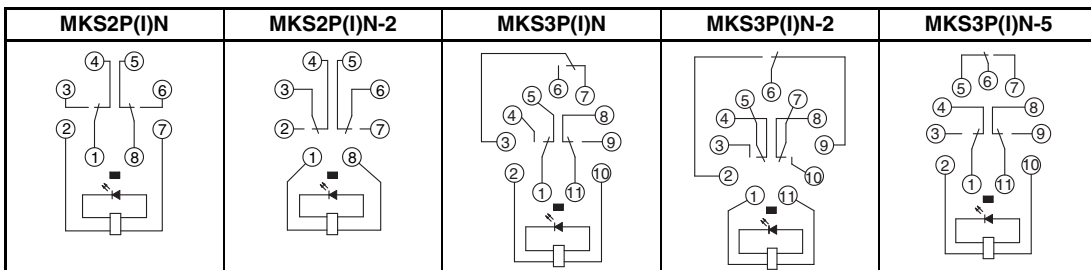
**Note:** PF083A(-E) and PF113A(-E) allow either track or screw mounting.

# Terminal Arrangement/Internal Connection (Bottom View)

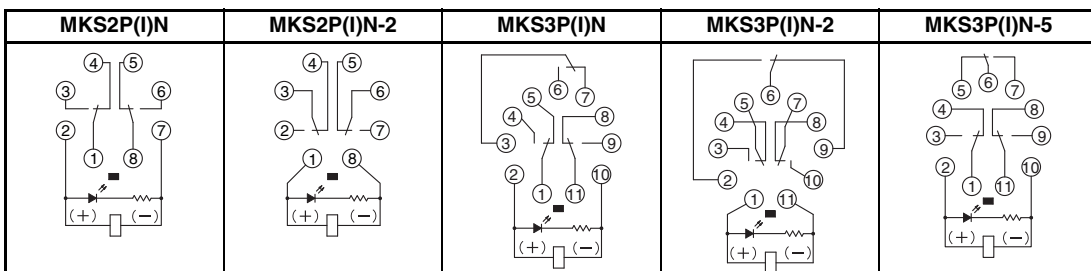
**Basic Models  
(AC/DC Coil)**



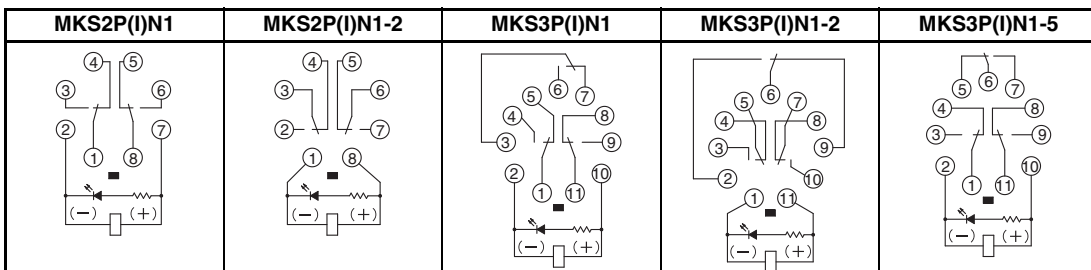
**LED Indicator Type  
(AC Coil)**



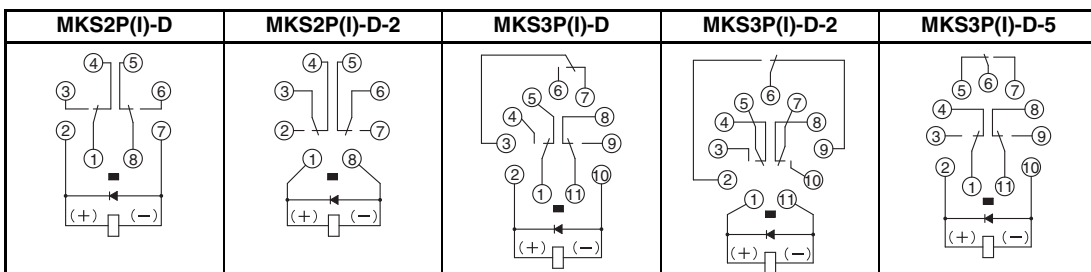
**LED Indicator Type  
(DC Coil:  
Standard Polarity)**



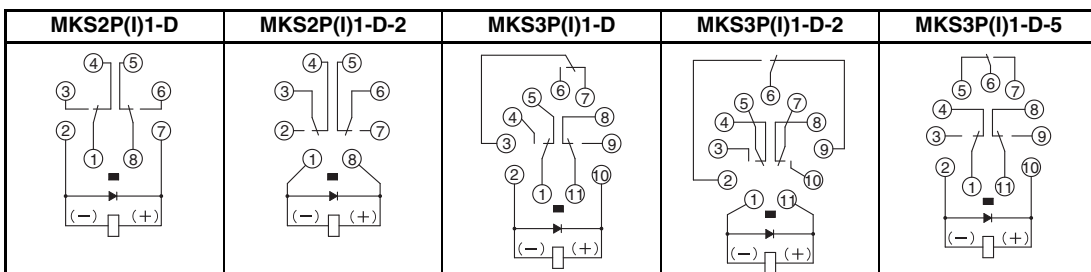
**LED Indicator Type  
(DC Coil:  
Reverse Polarity)**



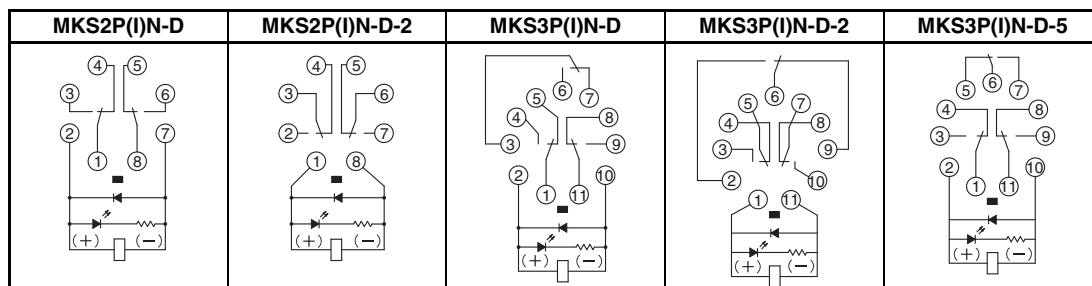
**Diode Type  
(DC Coil:  
Standard Polarity)**



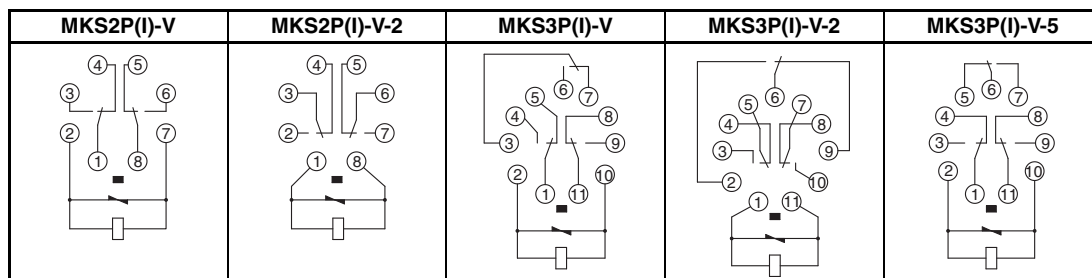
**Diode Type  
(DC Coil:  
Reverse Polarity)**



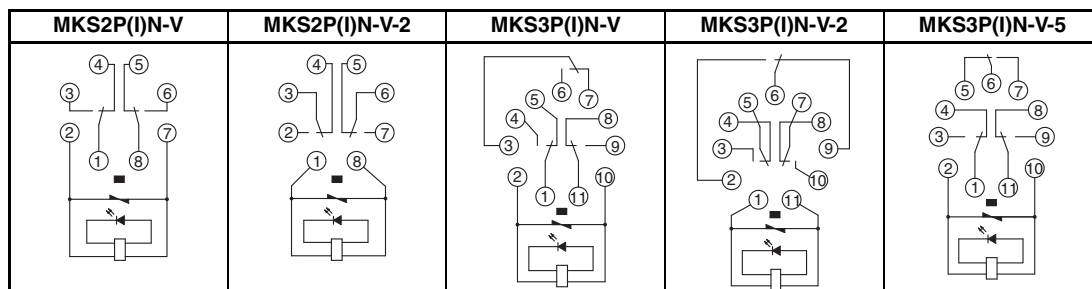
**LED Indicator and Diode Type (DC Coil)**



**Varistor Type (AC Coil)**



**LED Indicator and Varistor Type (AC Coil)**



## Safety Precautions

### ■ Safety Precautions for Correct Use

#### Installation

Recommend mounting MK-S Relay so that side with wiring diagram is facing down.

#### Handling

Check coil polarity when wiring LED Indicator and Diode Models.

#### Test Button

Do not use the test button for any purpose other than testing. Be sure not to touch the test button accidentally as this will turn the contacts ON. Before using the test button, confirm that circuits, the load, and any other connected item will operate safely.

Check that the test button is released before turning ON relay circuits.

If the test button is pulled out too forcefully, it may bypass the momentary testing position and go straight into the locked position.

Use an insulated tool when you operate the test button.

Models with test buttons or LED indicators fulfill the requirements for reinforced insulation between live parts and the front of cover only when the Relay is in a complete condition, i.e. with the nameplate, nameplate frame, test button, and slider in place. If any of these parts are removed, only the requirements for basic insulation are fulfilled.



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- Offer; Acceptance.** These terms and conditions (these "Terms") are deemed part of all quotes, agreements, purchase orders, acknowledgments, price lists, catalogs, manuals, brochures and other documents, whether electronic or in writing, relating to the sale of products or services (collectively, the "Products") by Omron Electronics LLC and its subsidiary companies ("Omron"). Omron objects to any terms or conditions proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms.
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  - All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Omron), at which point title and risk of loss shall pass from Omron to Buyer; provided that Omron shall retain a security interest in the Products until the full purchase price is paid;
  - Delivery and shipping dates are estimates only; and
  - Omron will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
- Claims.** Any claim by Buyer against Omron for shortage or damage to the Products occurring before delivery to the carrier must be presented in writing to Omron within 30 days of receipt of shipment and include the original transportation bill signed by the carrier noting that the carrier received the Products from Omron in the condition claimed.
- Warranties.** (a) **Exclusive Warranty.** Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied. (b) **Limitations.** OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or otherwise of any intellectual property right. (c) **Buyer Remedy.** Omron's sole obligation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Companies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty. See <http://www.omron247.com> or contact your Omron representative for published information.
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- Indemnities.** Buyer shall indemnify and hold harmless Omron Companies and their employees from and against all liabilities, losses, claims, costs and expenses (including attorney's fees and expenses) related to any claim, investigation, litigation or proceeding (whether or not Omron is a party) which arises or is alleged to arise from Buyer's acts or omissions under these Terms or in any way with respect to the Products. Without limiting the foregoing, Buyer (at its own expense) shall indemnify and hold harmless Omron and defend or settle any action brought against such Companies to the extent based on a claim that any Product made to Buyer specifications infringed intellectual property rights of another party.
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- Export Controls.** Buyer shall comply with all applicable laws, regulations and licenses regarding (i) export of products or information; (ii) sale of products to "forbidden" or other proscribed persons; and (iii) disclosure to non-citizens of regulated technology or information.
- Miscellaneous.** (a) **Waiver.** No failure or delay by Omron in exercising any right and no course of dealing between Buyer and Omron shall operate as a waiver of rights by Omron. (b) **Assignment.** Buyer may not assign its rights hereunder without Omron's written consent. (c) **Law.** These Terms are governed by the law of the jurisdiction of the home office of the Omron company from which Buyer is purchasing the Products (without regard to conflict of law principles). (d) **Amendment.** These Terms constitute the entire agreement between Buyer and Omron relating to the Products, and no provision may be changed or waived unless in writing signed by the parties. (e) **Severability.** If any provision hereof is rendered ineffective or invalid, such provision shall not invalidate any other provision. (f) **Setoff.** Buyer shall have no right to set off any amounts against the amount owing in respect of this invoice. (g) **Definitions.** As used herein, "including" means "including without limitation"; and "Omron Companies" (or similar words) mean Omron Corporation and any direct or indirect subsidiary or affiliate thereof.

## Certain Precautions on Specifications and Use

- Suitability of Use.** Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases but the following is a non-exhaustive list of applications for which particular attention must be given:
  - Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.
  - Use in consumer products or any use in significant quantities.
  - Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
  - Systems, machines and equipment that could present a risk to life or property. Please know and observe all prohibitions of use applicable to this Product.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON'S PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.
- Programmable Products.** Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.
- Performance Data.** Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.
- Change in Specifications.** Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.
- Errors and Omissions.** Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

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**Note:** This datasheet is provided as a guideline for selecting products. Do not use this document to operate the Unit.

**ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.**

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

# OMRON

**OMRON ELECTRONICS LLC • THE AMERICAS HEADQUARTERS**

Schaumburg, IL USA • 847.843.7900 • 800.556.6766 • [www.omron247.com](http://www.omron247.com)

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