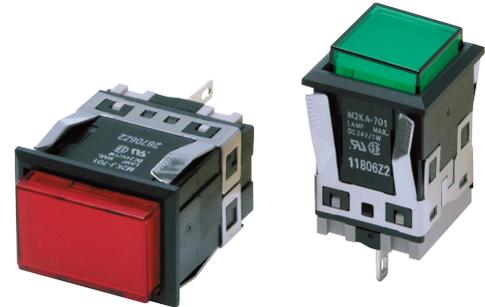


## Miniature Design Achieved with Body Length of 23 mm

- Five colors (red, yellow, green, white, and blue) with LED.
- Chip LED produces even surface brightness.
- Easy panel mounting from the front.



 Refer to *Safety Precautions for All Pushbutton Switches/ Indicators* and *Safety Precautions for the A3K*.

## List of Models

### Indicators

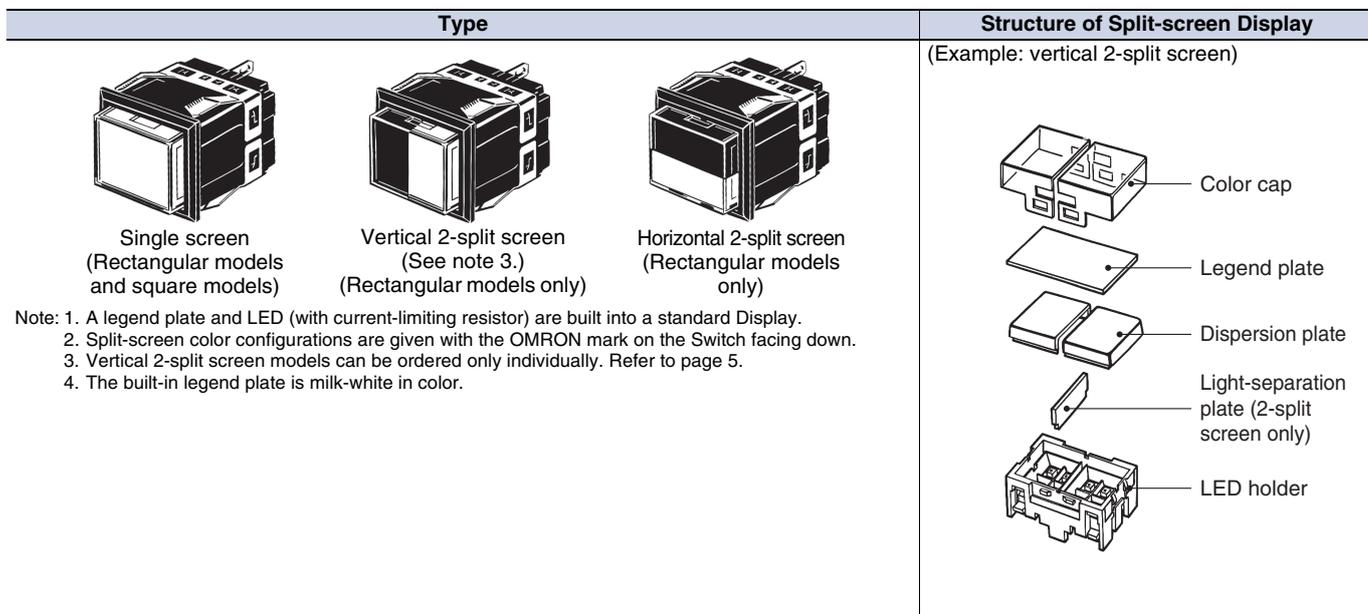
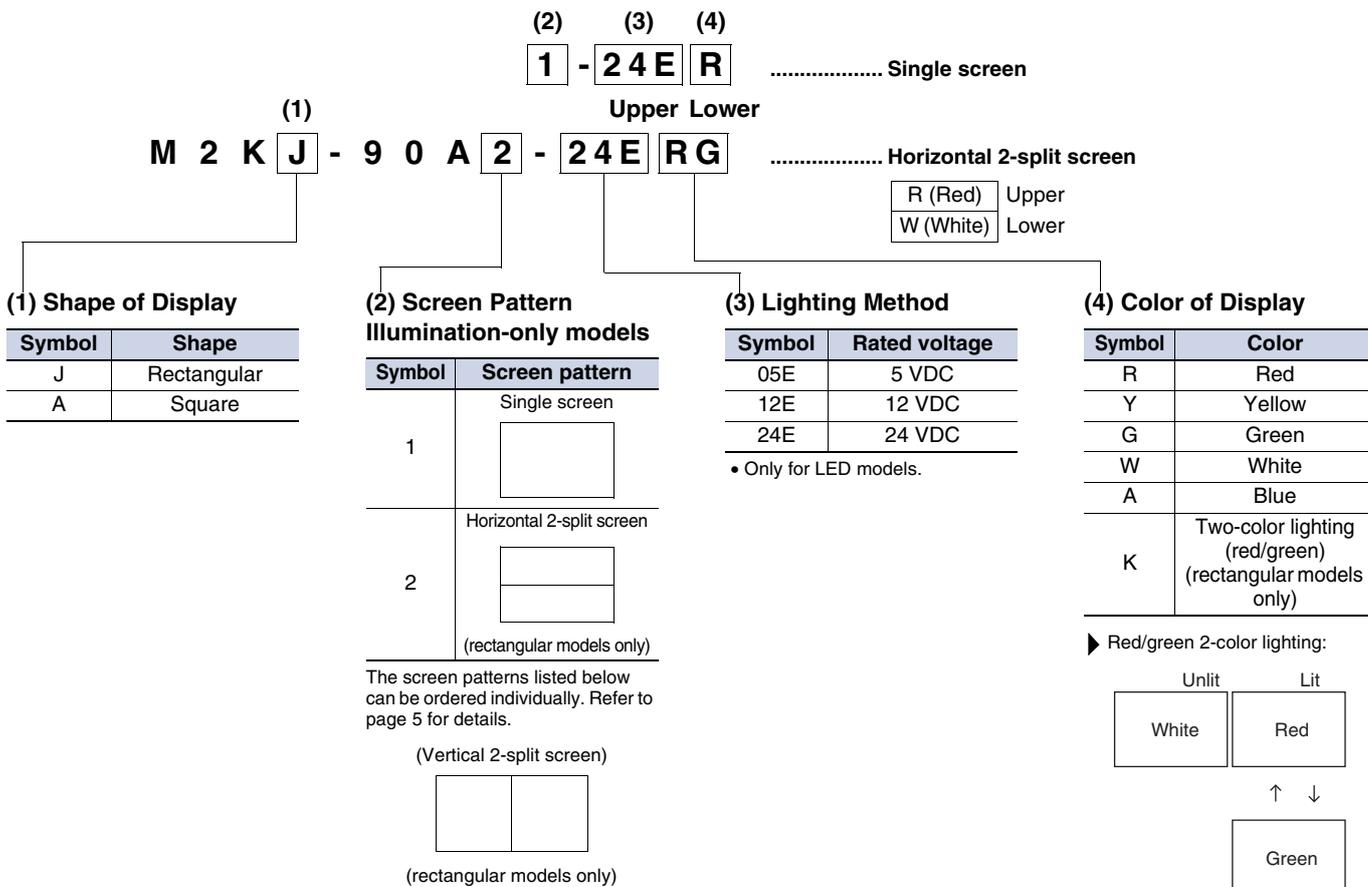
Appearance	Model
Rectangular 	M2KJ
Square 	M2KA

■ Specifications: Refer to page 6.  
■ Accessories: Refer to the A3K.

■ Dimensions: Refer to page 8.

## Model Number Structure

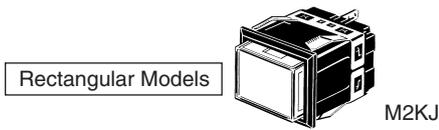
**Model Number Legend** ..... The model numbers used to order sets of Units are illustrated below. One set comprises the Display (LED built in) and Socket Unit. For information on combinations, refer to *Ordering Information* on page 3.



## Ordering Information

**Ordering as a Set** ..... Sets are available that combine an Display (LED built in) and a Socket Unit.

### Indicators



Screen pattern	Operating voltage	Indicator	Operation Unit color symbol		
Single screen 	5 VDC	<b>M2KJ-90A1-05E<sup>1</sup></b>	Insert a color symbol in the box with the one at the end of the model number. R (red)    W (white) Y (yellow) A (blue) G (green) K (red/green)		
	12 VDC	<b>M2KJ-90A1-12E<sup>1</sup></b>			
	24 VDC	<b>M2KJ-90A1-24E<sup>1</sup></b>			
Horizontal 2-split screen 	24 VDC	<b>M2KJ-90A2-24E<sup>1</sup>2</b>	Insert a color symbol in the boxes with the one and two at the end of the model number. R (red) Y (yellow) G (green) W (white) A (blue) <table border="1" style="display: inline-table; vertical-align: middle; margin-left: 20px;"> <tr><td>1</td></tr> <tr><td>2</td></tr> </table>	1	2
1					
2					



Screen pattern	Operating voltage	Indicator	Operation Unit color symbol
Single screen 	5 VDC	<b>M2KA-90A1-05E<sup>1</sup></b>	Insert a color symbol in the box with the one at the end of the model number. R (red) Y (yellow) G (green) W (white) A (blue)
	12 VDC	<b>M2KA-90A1-12E<sup>1</sup></b>	
	24 VDC	<b>M2KA-90A1-24E<sup>1</sup></b>	

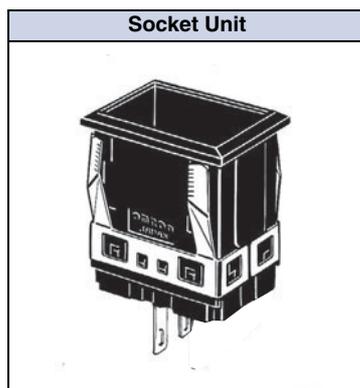
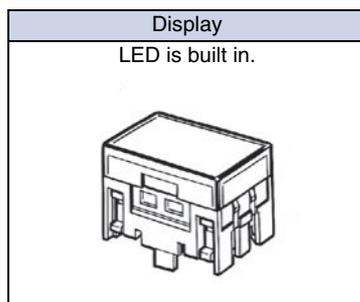
Individual models: Refer to pages 4 to 5.  
(The Light and Switch can be ordered separately.)

■ Specifications: Refer to page 6. ■ Dimensions: Refer to page 8.  
■ Accessories: Refer to the A3K.

## Ordering Information

**Ordering Individually** ..... Displays (LED built in), and Socket Units can be ordered separately. Combinations that are not available as sets can be created using individual Units. Also, store the parts as spares for maintenance and repairs.

**Ordering** ..... Specify a model on the following page.



Ordering set combinations: Refer to page 3.

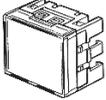
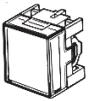
■ Specifications: Refer to page 6. ■ Dimensions: Refer to page 8.  
■ Accessories: Refer to the A3K.

## Ordering Information

### Display

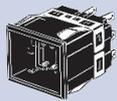
#### LED-lighted Models (LED chip built in)

Not all combinations are possible. Ask your OMRON representative for details.

Appearance	Screen pattern	Color	White (W)	Red (R)	Green (G)	Blue (A)	Yellow (Y)	Selection precautions	
Rectangular Models (M2KJ) 	Single screen		M2KJ -51W-□□E	M2KJ -51R-□□E	M2KJ -51G-□□E	---	M2KJ -51Y-□□E	<ul style="list-style-type: none"> <li>Enter the voltage to be used in the □□ at the end of the model number. Examples of voltage used: 5 V = 0 5E 12 V = 1 2E 24 V = 2 4E</li> <li>Two-split screen models support only 24 V.</li> <li>For the color of the shaded part, select the model according to the colors given at the top of the table.</li> </ul>	
	Horizontal 2-split screen		M2KJ -52WW-□□E	M2KJ -52WR-□□E	---	M2KJ -52WA-□□E	---		---
			M2KJ -52RW-□□E	M2KJ -52RR-□□E	M2KJ -52RG-□□E	---	M2KJ -52RY-□□E		---
			M2KJ -52GW-□□E	M2KJ -52GR-□□E	M2KJ -52GG-□□E	M2KJ -52GA-□□E	M2KJ -52GY-□□E		---
			---	---	---	M2KJ -52AA-□□E	M2KJ -52AY-□□E		---
			M2KJ -52YW-□□E	M2KJ -52YR-□□E	M2KJ -52YG-□□E	---	M2KJ -52YY-□□E		---
			M2KJ -53WW-□□E	---	M2KJ -53WG-□□E	---	---		---
	Vertical 2-split screen		---	M2KJ -53RR-□□E	M2KJ -53RG-□□E	---	---		---
			---	M2KJ -53GR-□□E	M2KJ -53GG-□□E	---	M2KJ -53GY-□□E		---
			---	---	---	---	M2KJ -53YY-□□E		---
		M2KJ-57K-□□E							
Two-color full illumination (red/green)									
Square Models (M2KA) 	Single screen		M2KA -51W-□□E	M2KA -51R-□□E	M2KA -51G-□□E	M2KA -51A-□□E	M2KA -51Y-□□E		

Note: 1. A legend plate and LED (with current-limiting resistor) are built into a standard Display.  
 2. Split-screen coloring configurations are given with the OMRON mark on the Sockets facing down.  
 3. The built-in legend plate is milk-white in color.

### Socket Unit

Appearance	Rectangular models	Square models	Remarks
			
Model	M2KJ-7010	M2KA-7010	Refer to the A3K datasheet for mounting and removing.

Ordering set combinations: Refer to page 3.

■ Specifications: Refer to page 6. ■ Dimensions: Refer to page 8.  
 ■ Accessories: Refer to the A3K.

## Ordering Information

### Accessories, Replacements, and Tools

Refer to the A3K datasheet.

## Specifications

### Approved Standard Ratings

UL (File No. E41515), CSA (File No. LR45258)

LED: 24 VDC, 1 W max.

Note: Certification has been obtained for the indicator.

For detailed information on individual products that have received certification, consult your supplier.

### Ratings

#### LED Ratings

##### Rectangular Models (M2KJ)

Applicable voltage	Rated voltage	Rated current
5 VDC $\pm$ 5%	5 VDC	48 mA (18 mA) *
12 VDC $\pm$ 5%	12 VDC	20 mA (10 mA) *
24 VDC $\pm$ 5%	24 VDC	10 mA (5 mA) *

\* Values are for blue illumination.

##### Square Models (M2KA)

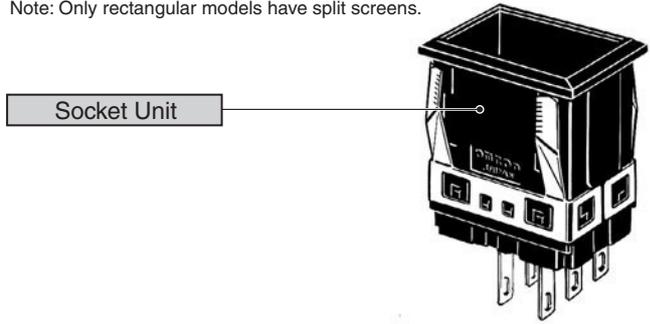
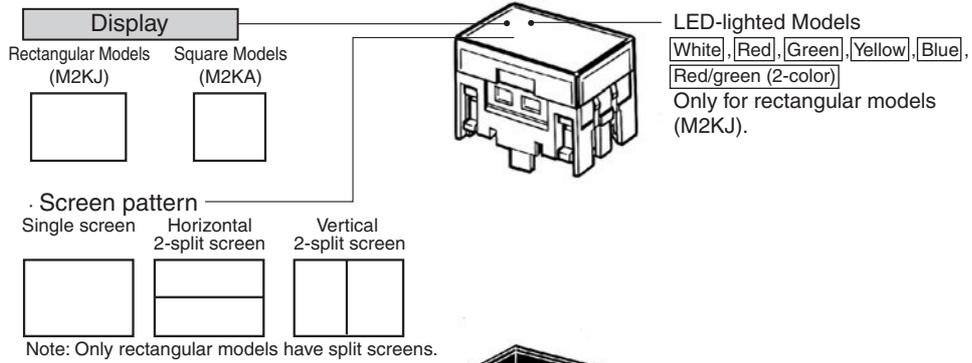
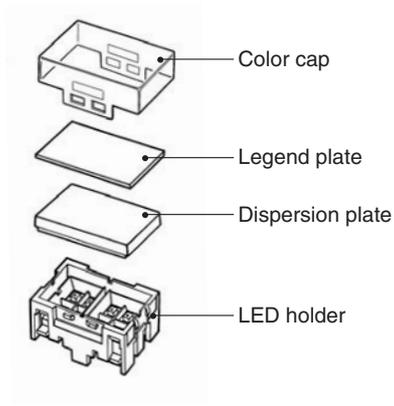
Applicable voltage	Rated voltage	Rated current
5 VDC $\pm$ 5%	5 VDC	24 mA (10 mA) *
12 VDC $\pm$ 5%	12 VDC	24 mA (10 mA) *
24 VDC $\pm$ 5%	24 VDC	12 mA (5 mA) *

\* Values are for blue illumination.

<b>Ambient operating temperature</b>	-10 to 50°C (with no icing or condensation)
<b>Ambient operating humidity</b>	35% to 85%RH
<b>Ambient storage temperature</b>	-25 to 65°C (with no icing or condensation)

# Nomenclature

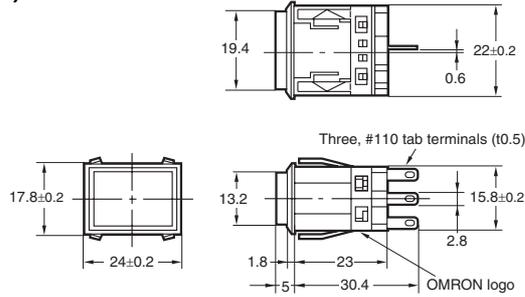
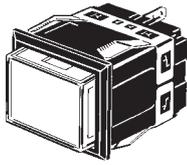
## Model Structure



Note: The M2KJ model is shown here as an example.

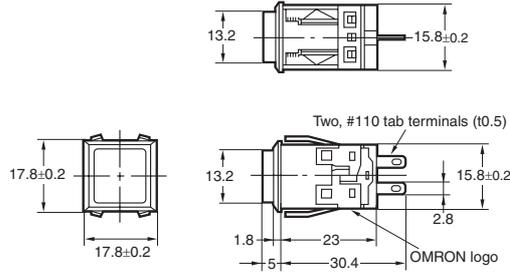
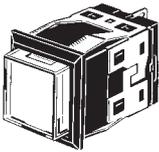
## Dimensions

### Rectangular Models (M2KJ)



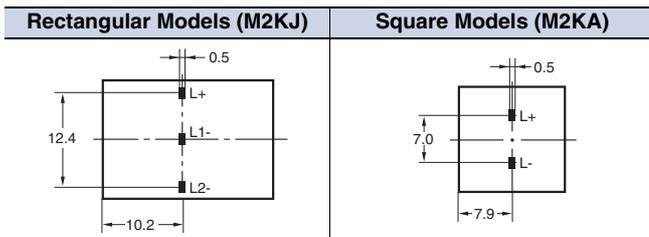
Note: Unless specified, a tolerance of  $\pm 0.4$  mm applies for all dimensions. Use a mounting panel thickness of 1 to 4 mm.

### Square Models (M2KA)



## Terminal Arrangement

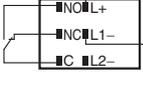
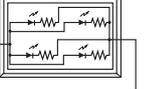
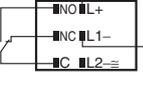
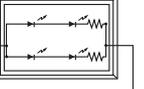
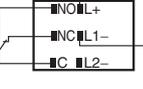
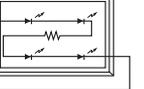
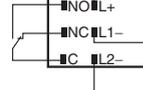
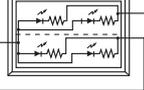
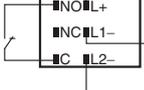
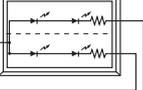
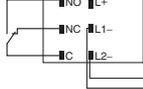
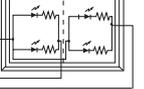
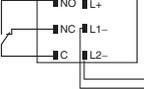
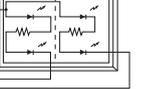
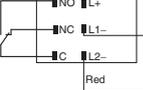
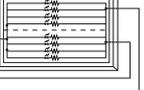
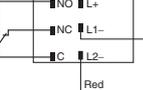
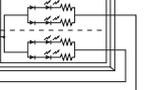
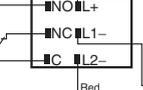
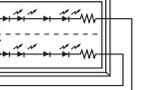
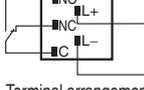
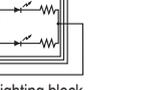
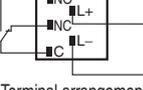
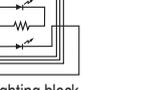
Bottom View (All are shown with the OMRON logo facing down.)



Dimensions

Terminal Connections  
LED-lighted Models

(All are shown with the OMRON logo facing down.)

Operating voltage		5 VDC		12 VDC		24 VDC			
Model	Screen pattern								
M2KJ	Single screen	Bottom View  Terminal arrangement	Top View  Lighting block	Bottom View  Terminal arrangement	Top View  Lighting block	Bottom View  Terminal arrangement	Top View  Lighting block		
	Horizontal 2-split screen	Bottom View  Terminal arrangement	Top View  Lighting block	Bottom View  Terminal arrangement		Top View  Lighting block			
	Vertical 2-split screen	Bottom View  Terminal arrangement	Top View  Lighting block	Bottom View  Terminal arrangement		Top View  Lighting block			
	Two-color lighting (red/green)	Bottom View  Terminal arrangement	Top View  Lighting block	Bottom View  Terminal arrangement	Top View  Lighting block	Bottom View  Terminal arrangement	Top View  Lighting block		
M2KA	Single screen	Bottom View  Terminal arrangement		Top View  Lighting block		Bottom View  Terminal arrangement		Top View  Lighting block	

## Dimensions

(Unit: mm)

### Panel Cutout

(If a Switch Guard or Seal Cover is to be used, refer to the panel cutout diagrams for the A3K.)

### Rectangular Models (M2KJ)

Recommended panel thickness: 1 to 4 mm

Classification	Mounting design	Panel cutout	Remarks
Flange mount models	Individual mounting, horizontal 		Panel cutout spacing between rows of Units: 
	Multiple mounting, horizontal 		
	Individual mounting, vertical 		
	Multiple mounting, vertical 		
Barrier mount models	Individual mounting, horizontal 		Panel cutout spacing between rows of Units:   (Dotted line indicates the position of each Mounting Barrier.)
	Multiple mounting, horizontal 		
	Individual mounting, vertical 		
	Multiple mounting, vertical 		

• If the panel is to be finished (e.g., coated), make sure that the panel meets the specified dimensions after the coating.

### Square Models (M2KA)

Recommended panel thickness: 1 to 4 mm

Classification	Mounting design	Panel cutout	Remarks
Flange mount models	Individual mounting 		Panel cutout spacing between rows of Units: 
	Multiple mounting 		
Barrier mount models	Individual mounting 		Panel cutout spacing between rows of Units:   (Dotted line indicates the position of each Mounting Barrier.)
	Multiple mounting 		

• If the panel is to be finished (e.g., coated), make sure that the panel meets the specified dimensions after the coating.

## Safety Precautions

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Refer to *Safety Precautions for All Pushbutton Switches/Indicators* and *Safety Precautions for the A3K*.

## Terms and Conditions Agreement

### Read and understand this catalog.

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(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.

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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 PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

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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.

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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.