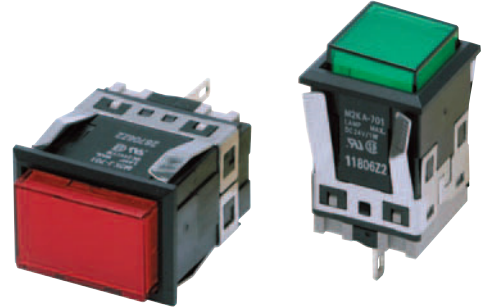



## Miniature Design Achieved with Body Length of 23 mm

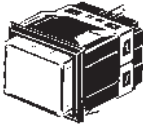
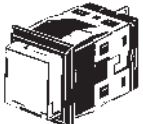
- Five colors (red, yellow, green, white, and blue) with LED.  
(A green LED is used for blue.)
- Chip LED produces even surface brightness.
- Easy panel mounting from the front.



 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

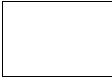
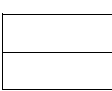
**Model Number Legend** ..... The model numbers used to order sets of Units are illustrated below. One set comprises the Display (LED built in) and Socket Unit. For information on combinations, refer to *Ordering Information* on page 3.

(2) (3) (4)  
**1 - 24 E R** ..... Single screen  
 Upper Lower  
**M 2 K J - 9 0 A 2 - 24 E RW** ..... Horizontal 2-split screen  
 R (Red) Upper  
 W (White) Lower

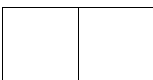
**(1) Shape of Display**

Symbol	Shape
J	Rectangular
A	Square

**(2) Screen Pattern Illumination-only models**

Symbol	Screen pattern
1	Single screen 
2	Horizontal 2-split screen  (rectangular models only)

The screen patterns listed below can be ordered individually. Refer to page 5 for details.

(Vertical 2-split screen)  
  
(rectangular models only)

**(3) Lighting Method**

Symbol	Rated voltage
05E	5 VDC
12E	12 VDC
24E	24 VDC

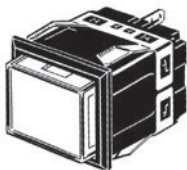
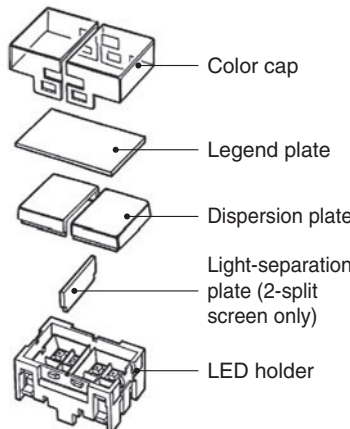
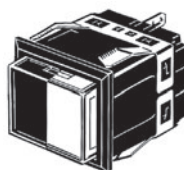
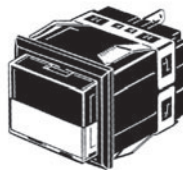
• Only for LED models.

**(4) Color of Display**

Symbol	Color
R	Red
Y	Yellow
G	Green
W	White
A	Blue
K	Two-color lighting (red/green) (rectangular models only)

► Red/green 2-color lighting:

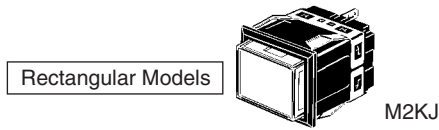
Unlit	Lit
White	Red
↑ ↓	
Green	


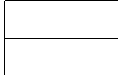
Type	Structure of Split-screen Display																																				
 Single screen (Rectangular models and square models)	(Example: vertical 2-split screen)   <ul style="list-style-type: none"> <li>Color cap</li> <li>Legend plate</li> <li>Dispersion plate</li> <li>Light-separation plate (2-split screen only)</li> <li>LED holder</li> </ul>																																				
 Vertical 2-split screen (See note 3.) (Rectangular models only)																																					
 Horizontal 2-split screen (Rectangular models only)																																					
<p>Note: 1. A legend plate and LED (with current-limiting resistor) are built into a standard Display.                      2. Split-screen color configurations are given with the OMRON mark on the Switch facing down.                      3. Vertical 2-split screen models can be ordered only individually. Refer to page 5.                      4. The following table lists the colors of the built-in legend plate.</p>																																					
<p><b>Single screen</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Operation Unit color Legend plate</th> <th>White</th> <th>Red</th> <th>Green</th> <th>Blue</th> <th>Yellow</th> <th>Two-color lighting (red/green)</th> </tr> </thead> <tbody> <tr> <td>Milk-white</td> <td style="text-align: center;">○</td> <td></td> <td></td> <td style="text-align: center;">○</td> <td></td> <td style="text-align: center;">○</td> </tr> <tr> <td>Transparent</td> <td></td> <td style="text-align: center;">○</td> <td style="text-align: center;">○</td> <td></td> <td style="text-align: center;">○</td> <td></td> </tr> </tbody> </table>		Operation Unit color Legend plate	White	Red	Green	Blue	Yellow	Two-color lighting (red/green)	Milk-white	○			○		○	Transparent		○	○		○																
Operation Unit color Legend plate	White	Red	Green	Blue	Yellow	Two-color lighting (red/green)																															
Milk-white	○			○		○																															
Transparent		○	○		○																																
<p><b>2-split screen</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Color combination</th> <th>White</th> <th>Red</th> <th>Green</th> <th>Blue</th> <th>Yellow</th> </tr> </thead> <tbody> <tr> <td><b>White</b></td> <td>Milk-white</td> <td>Milk-white</td> <td>Milk-white</td> <td>Milk-white</td> <td>Milk-white</td> </tr> <tr> <td><b>Red</b></td> <td>Milk-white</td> <td>Transparent</td> <td>Transparent</td> <td>Milk-white</td> <td>Transparent</td> </tr> <tr> <td><b>Green</b></td> <td>Milk-white</td> <td>Transparent</td> <td>Transparent</td> <td>Milk-white</td> <td>Transparent</td> </tr> <tr> <td><b>Blue</b></td> <td>Milk-white</td> <td>Milk-white</td> <td>Milk-white</td> <td>Milk-white</td> <td>Milk-white</td> </tr> <tr> <td><b>Yellow</b></td> <td>Milk-white</td> <td>Transparent</td> <td>Milk-white</td> <td>Milk-white</td> <td>Transparent</td> </tr> </tbody> </table> <p>Examples:                      White/red split colors:                      One milk-white legend plate                      Green/red split colors:                      One transparent legend plate</p>		Color combination	White	Red	Green	Blue	Yellow	<b>White</b>	Milk-white	Milk-white	Milk-white	Milk-white	Milk-white	<b>Red</b>	Milk-white	Transparent	Transparent	Milk-white	Transparent	<b>Green</b>	Milk-white	Transparent	Transparent	Milk-white	Transparent	<b>Blue</b>	Milk-white	Milk-white	Milk-white	Milk-white	Milk-white	<b>Yellow</b>	Milk-white	Transparent	Milk-white	Milk-white	Transparent
Color combination	White	Red	Green	Blue	Yellow																																
<b>White</b>	Milk-white	Milk-white	Milk-white	Milk-white	Milk-white																																
<b>Red</b>	Milk-white	Transparent	Transparent	Milk-white	Transparent																																
<b>Green</b>	Milk-white	Transparent	Transparent	Milk-white	Transparent																																
<b>Blue</b>	Milk-white	Milk-white	Milk-white	Milk-white	Milk-white																																
<b>Yellow</b>	Milk-white	Transparent	Milk-white	Milk-white	Transparent																																

## 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</b> <sup>1</sup>	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</b> <sup>1</sup>			
	24 VDC	<b>M2KJ-90A1-24E</b> <sup>1</sup>			
Horizontal 2-split screen 	24 VDC	<b>M2KJ-90A2-24E</b> <sup>1</sup> <sup>2</sup>	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;"> <tr><td>1</td></tr> <tr><td>2</td></tr> </table>	1	2
1					
2					

\* Yellow and green LEDs are used.



Screen pattern	Operating voltage	Indicator	Operation Unit color symbol
Single screen 	5 VDC	<b>M2KA-90A1-05E</b> <sup>1</sup>	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</b> <sup>1</sup>	
	24 VDC	<b>M2KA-90A1-24E</b> <sup>1</sup>	

\* Yellow and green LEDs are used.

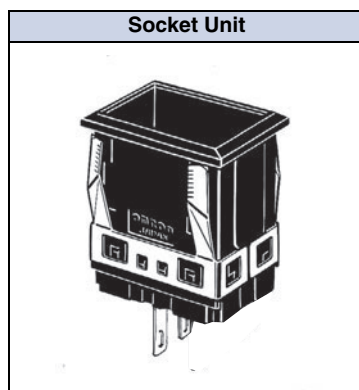
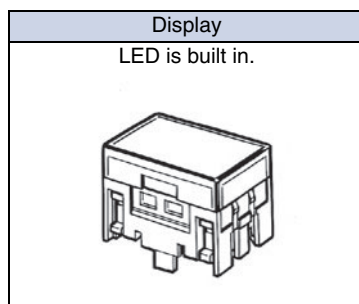
Individual models: Refer to pages 4 to 5.  
(The Light and Switch can be ordered separately.)

■ 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)

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 -51A-□□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 =□□5E 12 V =□□2E 24 V =□□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 -52WG-□□E	M2KJ -52WA-□□E	M2KJ -52WY-□□E	
			M2KJ -52RW-□□E	M2KJ -52RR-□□E	M2KJ -52RG-□□E	M2KJ -52RA-□□E	M2KJ -52RY-□□E	
			M2KJ -52GW-□□E	M2KJ -52GR-□□E	M2KJ -52GG-□□E	M2KJ -52GA-□□E	M2KJ -52GY-□□E	
			M2KJ -52AW-□□E	M2KJ -52AR-□□E	M2KJ -52AG-□□E	M2KJ -52AA-□□E	M2KJ -52AY-□□E	
			M2KJ -52YW-□□E	M2KJ -52YR-□□E	M2KJ -52YG-□□E	M2KJ -52YA-□□E	M2KJ -52YY-□□E	
			M2KJ -53WW-□□E	M2KJ -53WR-□□E	M2KJ -53WG-□□E	M2KJ -53WA-□□E	M2KJ -53WY-□□E	
	Vertical 2-split screen		M2KJ -53RW-□□E	M2KJ -53RR-□□E	M2KJ -53RG-□□E	M2KJ -53RA-□□E	M2KJ -53RY-□□E	
			M2KJ -53GW-□□E	M2KJ -53GR-□□E	M2KJ -53GG-□□E	M2KJ -53GA-□□E	M2KJ -53GY-□□E	
			M2KJ -53AW-□□E	M2KJ -53AR-□□E	M2KJ -53AG-□□E	M2KJ -53AA-□□E	M2KJ -53AY-□□E	
			M2KJ -53YW-□□E	M2KJ -53YR-□□E	M2KJ -53YG-□□E	M2KJ -53YA-□□E	M2KJ -53YY-□□E	
		 ↓ 	M2KJ-57K-□□E					
	Square Models (M2KA) 	Single screen		M2KA -51W-□□E	M2KA -51R-□□E	M2KA -51G-□□E	M2KA -51A-□□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 following list gives the colors of the built-in legend plate.


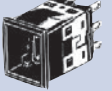
#### Single screen

Display color	White	Red	Green	Blue	Yellow	Two-color full illumination (red/green)
Legend plate						
Milk-white	○			○		○
Transparent		○	○		○	

#### 2-split screen

Color combination	White	Red	Green	Blue	Yellow
White	Milk-white	Milk-white	Milk-white	Milk-white	Milk-white
Red	Milk-white	Transparent	Transparent	Milk-white	Transparent
Green	Milk-white	Transparent	Transparent	Milk-white	Transparent
Blue	Milk-white	Milk-white	Milk-white	Milk-white	Milk-white
Yellow	Milk-white	Transparent	Milk-white	Milk-white	Transparent

#### Socket Unit

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

- Examples:  
 White/red split colors:  
 One milk-white legend plate  
 Green/red split colors:  
 One transparent legend plate

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	44 mA
12 VDC $\pm$ 5%	12 VDC	22 mA
24 VDC $\pm$ 5%	24 VDC	11 mA

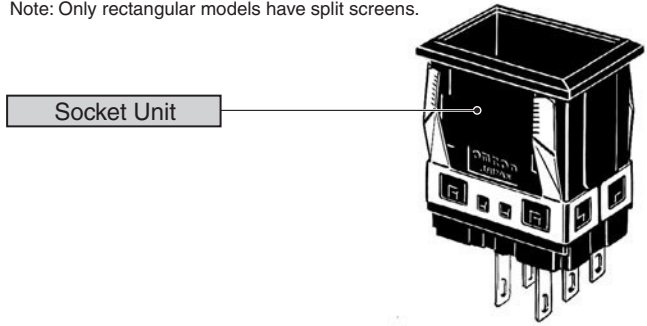
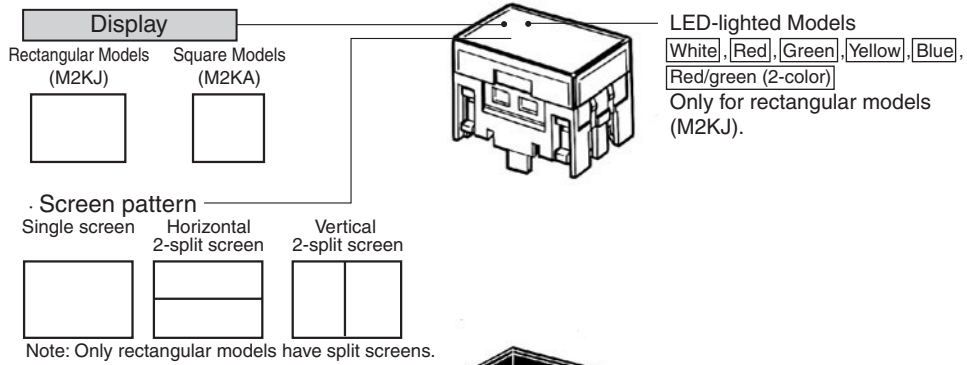
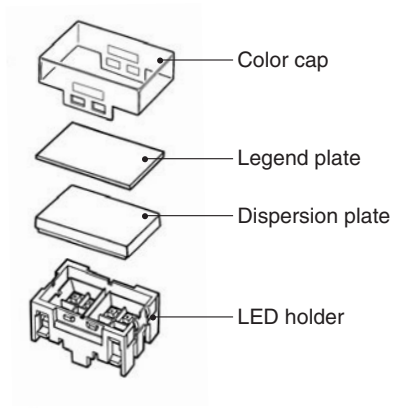
##### Square Models (M2KA)

Applicable voltage	Rated voltage	Rated current
5 VDC $\pm$ 5%	5 VDC	27 mA
12 VDC $\pm$ 5%	12 VDC	18 mA
24 VDC $\pm$ 5%	24 VDC	9 mA

<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

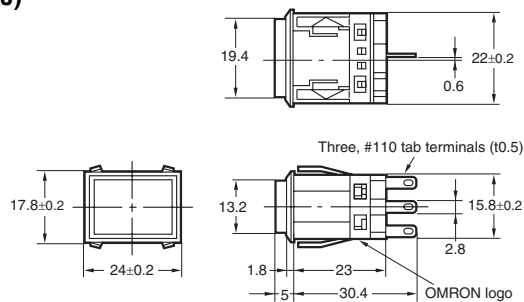
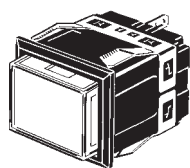
Model Structure



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

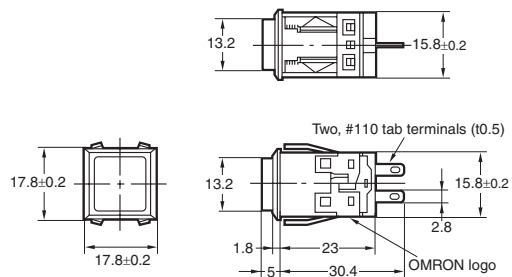
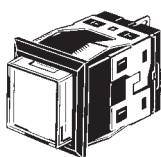
## Dimensions

### Rectangular Models (M2KJ)



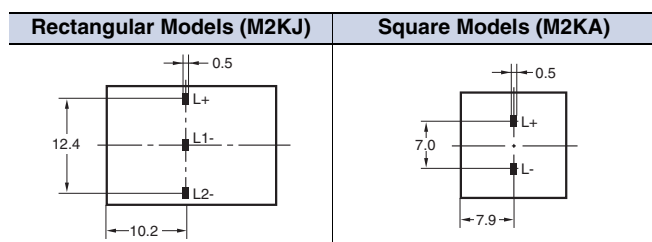
Note: Unless specified, a tolerance of  $\pm 0.4$  mm applies for all dimensions. Use a mounting panel thickness of 1 to 4 mm.

### Square Models (M2KA)



## Terminal Arrangement

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

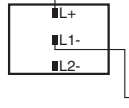
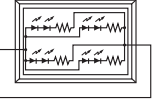
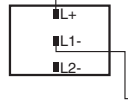
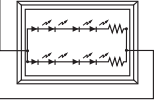
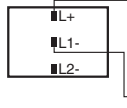
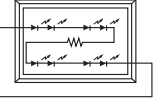
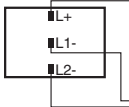
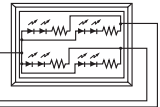
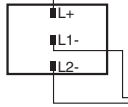
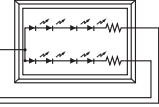
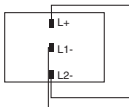
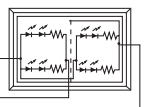
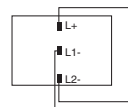
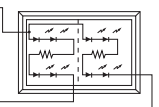
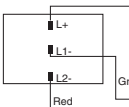
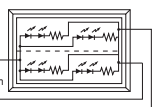
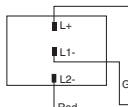
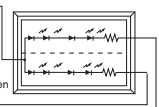
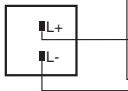
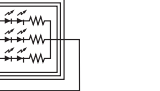
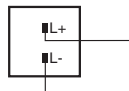
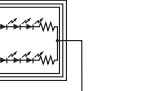
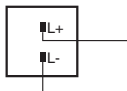





Dimensions

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	
M2KA	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

## Dimensions

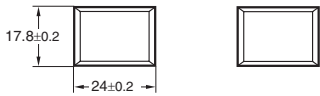
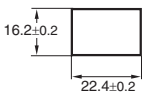
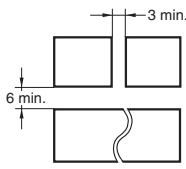
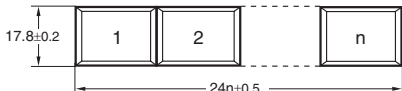
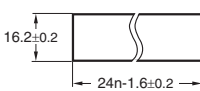
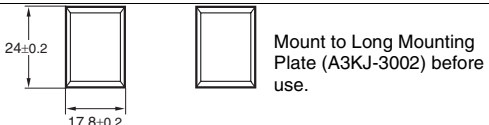
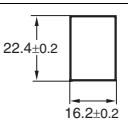
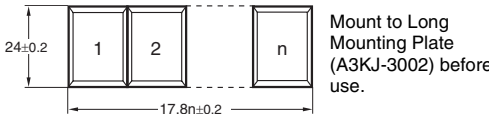
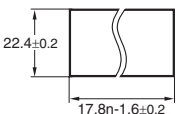
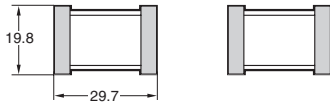
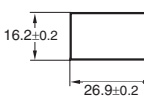
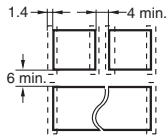
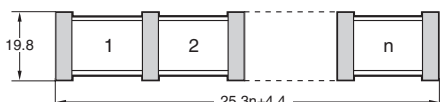
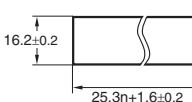
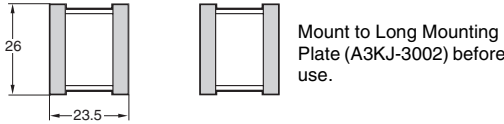
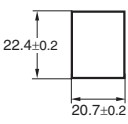
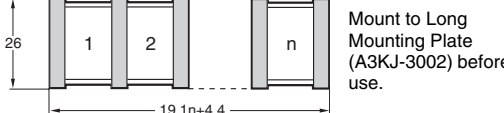
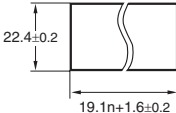
(Unit: mm)

### 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)

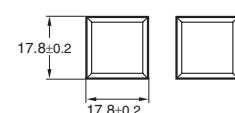
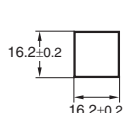
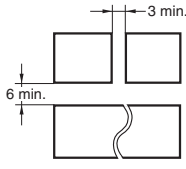
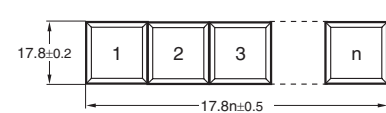
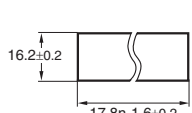
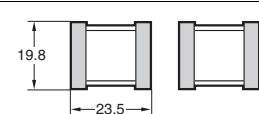
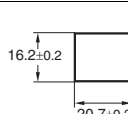
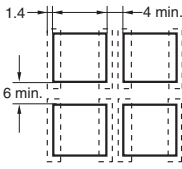
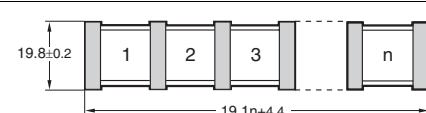
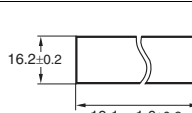
Recommended panel thickness: 1 to 4 mm

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

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2013.7

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