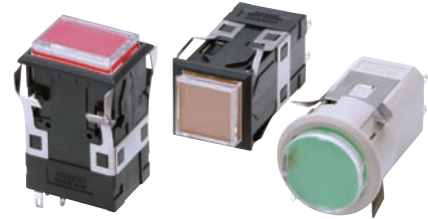



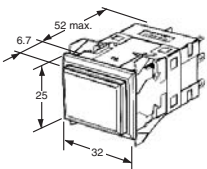
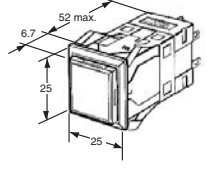
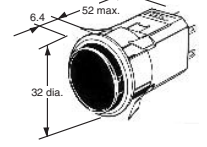
## Large Rectangular-bodied Indicators

- Excellent illumination with even surface brightness.



 Refer to *Safety Precautions for All Pushbutton Switches/ Indicators and Safety Precautions of A3P.*

### List of Models

Model	Appearance
M2PJ (Rectangular)	
M2PA (Square)	
M2PT (Round)	

- Panel cutout dimensions: Refer to page 11.
- Dimensions: Refer to page 10.
- Accessories, replacements, and tools: Refer to the A3P.
- Specifications: Refer to the A3P.

## Model Number Structure

**Model Number Legend** ..... The model numbers used to order sets of Units are illustrated below. One set comprises the Display, Lamp, and Socket.

For information on combinations, refer to *Ordering Information*.


(1)      (2) (3)      (4) (5)

**M2P J -90A 1 1 - 24E R** ..... Single screen

**(1) Shape of Display**


Symbol	Shape
J	Rectangular
A	Square
T	Round

**(2) Screen Pattern**


Illumination-only models	
Symbol	Screen pattern
1	Single screen 

Note: The available rectangular and square models are shown below. Select from among the individual products shown on page 6. (The square models are only available with horizontal 2-split screen models)


Horizontal 2-split screen models




Vertical 2-split screen models




4-split screen models



Horizontal 3-split screen models



Vertical 3-split screen models



The above diagrams show the Sockets with the "OMRON" mark facing down.

- ▶ Colored-illumination models up to the 4-split screen models are available as individual Units. Refer to page 6.
- ▶ "Colored-illumination" models operate in the way shown below:

Unlit

White

Lit

Color

The built-in LED is colored.

**(3) Case Color**

Symbol	Color
1	Black
2	Light gray

Note: M2PT model is available in light gray only.

**(5) Color of Display For LED**

Symbol	Color
R	Red
O	Orange
G	Green
W	White

**(4) Lighting Method LED-lighted Models (M2PJ and M2PA Only)**

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

**LED Lamp-lighted Models (M2PT Only)**

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

Note: M2PJ and M2PA can also be ordered separately. Refer to page 6 for details.

### Number of Built-in LED Lamps

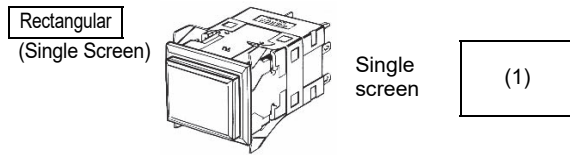
Screen pattern	M2PJ	M2PA	M2PT
Single screen	Models with built-in LED		2
Horizontal 2-split screen	4 *2	2 *2	
Vertical 2-split screen			
Horizontal 3-split screen		---	---
Vertical 3-split screen			
4-split screen			

\*2. These split screen models are available only as individual Units. They cannot be ordered as sets.

## Ordering Information

**Ordering as a Set** ..... The model numbers used to order sets of Units are given in the following tables. One set comprises the Display, Lamp, and Socket. Not all combinations are possible. Ask your OMRON representative for details.

### M2PJ (Rectangular) Single Screen Models



Case color		Black	Light gray	Display color symbol
Lighting method				
LED	5 VDC	M2PJ-90A11-05E(1)	M2PJ-90A12-05EG	R O G W
	12 VAC/VDC	M2PJ-90A11-12E(1)	M2PJ-90A12-12E(1)	
	24 VAC/VDC	M2PJ-90A11-24E(1)	M2PJ-90A12-24E(1)	

Note: Enter the desired color symbol for the Display in (1). (R) = Red, (O) = Orange, (G) = Green, (W) = White.

Example: Red MPJ-90A11-24ER

### M2PA (Square) Single Screen Models



Case color		Black	Light gray	Display color symbol
Lighting method				
LED	5 VDC	M2PA-90A11-05EO	---	ROGW
	12 VAC/VDC	M2PA-90A11-12E(1)	M2PA-90A12-12EW	
	24 VAC/VDC	M2PA-90A11-24E(1)	M2PA-90A12-24E(1)	

Note: Enter the desired color symbol for the Display in (1). (R) = Red, (O) = Orange, (G) = Green, (W) = White.

Example: Red M2PA-90A11-24ER

### M2PT (Round) Single Screen Models



Case color		Light gray	Display color symbol
Lighting method			
LED lamp	24 VDC	M2PT-90A12-24C(1)	ROGW

Note: Enter the desired color symbol for the Display in (1). (R) = Red, (O) = Orange, (G) = Green, (W) = White.

Example: Red M2PT-90A12-24CR

Individual models: Refer to pages 5 to 7.  
(The Display, Lamp, and Socket can be ordered separately.)

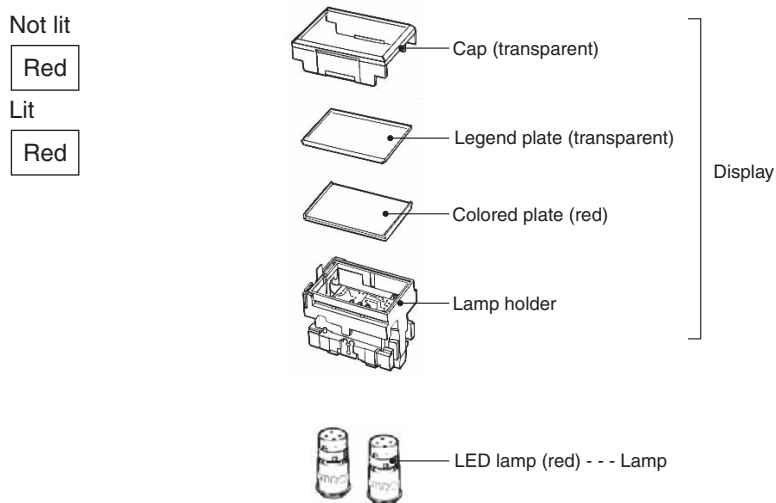
■ Specifications: Refer to the A3P.  
■ Dimensions: Refer to page 10. Accessories: Refer to the A3P.

## Ordering Information

### Illumination-only and Colored-illumination LED Models

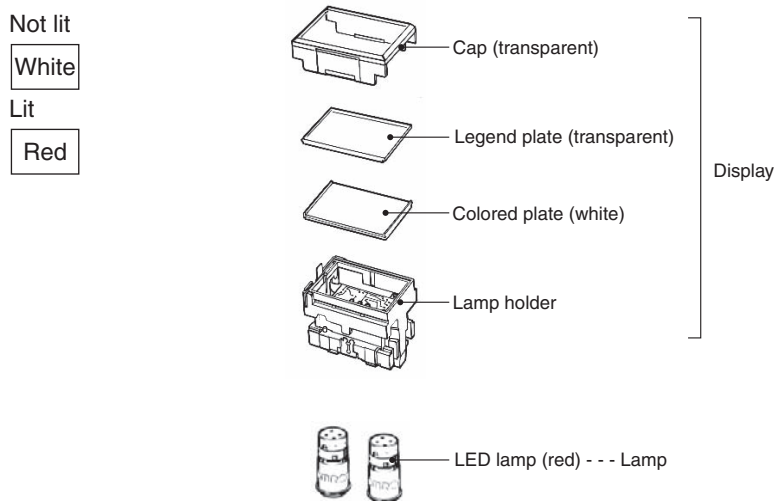
“Illumination only” describes LED models for which the screen color is the same whether the LED is lit or not. The screen simply becomes brighter when the LED lights.

#### Example: Red LED



“Colored illumination” describes LED models for which the screen color is white when the LED is not lit and changes to the color of the LED lamp when the LED is lit.

#### Example: Red LED



**Ordering:** For a colored-illumination Indicator, order the Display, Lamp, and Socket as shown in the following table.

Display	Lamp	Socket
<ul style="list-style-type: none"> <li>Select the LED lamp-lighted model required from the selection on page 6. Each assembly includes the number of white colored plates required to enable colored illumination for the corresponding screen-split configuration. For example, 4-split screen models includes 4 white colored plates.</li> </ul>	<ul style="list-style-type: none"> <li>Select the LED lamps to suit your desired coloration from the selection on page 7.</li> <li>Number of necessary LED lamps (standard): M2PJ (rectangular): 4 M2PA (square): 2 M2PT (round): 2</li> </ul>	<ul style="list-style-type: none"> <li>Select from the Sockets on page 7.</li> </ul>

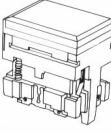
## Ordering Information

**Ordering Individually** .....Displays, Lamps, and Sockets 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.

### LED-lighted (Single screen models only) (LED is built into the Display.)

**Display**

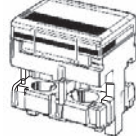
Round (M2PT) models not available.



• M2P□-5□□□-□□E  
(for Indicator)


### LED Lamp-lighted Models (LED lamp and Display are separate.)

**Display**




• M2P□-502□  
(for Indicator)

**Lamp (LED Lamp) \*2**



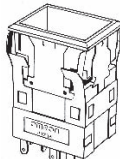
SLL-□□E□

**Socket \*1**



• M2P□-7□□□-□  
(for Indicator)

**Socket \*1**



• M2P□-7□□□-□  
(for Indicator)

\*1. The Socket is compatible with LED-lighted and LED lamp-lighted models.  
\*2. Number of necessary LED lamps.

Screen pattern	M2PJ	M2PA	M2PT
Single screen	4	2	2
Horizontal 2-split screen		2	---
Vertical 2-split screen		---	---
Vertical 3-split screen Horizontal 3-split screen		---	---
4-split screen		---	---

Ordering set combinations: Refer to pages 3.

■ Specifications: Refer to the A3P.  
■ Dimensions: Refer to page 10. Accessories: Refer to the A3P.

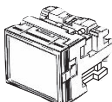

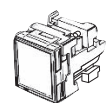

## Ordering Information

**Ordering Individually** ..... Displays, Lamps, and Sockets 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.

Display

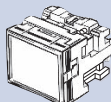
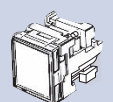
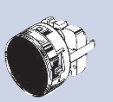








### LED-lighted Models (LED is built-in.)

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

Appearance	Split-screen color (color symbol)	White (W)	Red (R)	Green (G)	Orange (O)	Selection precautions
 Rectangular models	 Single screen	M2PJ-5701-□□E	M2PJ-5702-□□E	M2PJ-5703-□□E	M2PJ-5706-□□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>For the color of the shaded part, select the model according to the colors given at the top of the table.</li> </ul>
 Square models	 Single screen	M2PA-5701-□□E	M2PA-5702-□□E	M2PA-5703-□□E	M2PA-5706-□□E	

Note: 1. A cap, legend plate (transparent), colored plate, white plunger case, and LED (with a current-limiting resistor) are built into the standard lighting unit.  
2. Split-screen coloring configurations are given with the "OMRON" mark on the Sockets facing down.

### LED Lamp-lighted Models (LED is not built-in.)

Model	Rectangular models	Square models	Round models	Selection precautions																												
 Rectangular models	 Square models	 Round models																														
Screen pattern	Screen	Model	Screen	Model	Screen	Model																										
Single screen		M2PJ-5021		M2PA-5021		M2PT-5021	<ul style="list-style-type: none"> <li>Colored plates (white, red, green, and orange), a legend plate (transparent), and a light baffle (split-screen models only) are included. Use the appropriate combination for the LED coloring required.</li> <li>The number of white colored plates required to enable colored illumination for the corresponding screen-split configuration is included. (For example, 4-split screen models include 4 white colored plates).</li> <li>The number of colored plates included for each model are shown in the following table.</li> </ul> <table border="1"> <thead> <tr> <th>Screen pattern</th> <th>White</th> <th>Red</th> <th>Green</th> <th>Orange</th> </tr> </thead> <tbody> <tr> <td>Single screen</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>Horizontal 2-split screen</td> <td>2</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>Vertical 2-split screen</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>4-split screen</td> <td>4</td> <td>1</td> <td>1</td> <td>1</td> </tr> </tbody> </table>	Screen pattern	White	Red	Green	Orange	Single screen	1	1	1	1	Horizontal 2-split screen	2	1	1	1	Vertical 2-split screen	3	2	2	2	4-split screen	4	1	1	1
Screen pattern	White	Red	Green	Orange																												
Single screen	1	1	1	1																												
Horizontal 2-split screen	2	1	1	1																												
Vertical 2-split screen	3	2	2	2																												
4-split screen	4	1	1	1																												
Horizontal 2-split screen		M2PJ-5022		M2PA-5022																												
Vertical 2-split screen		M2PJ-5023																														
Horizontal 3-split screen		M2PJ-5024																														
4-split screen		M2PJ-5026																														

\* The following types of colored plates are included with Horizontal and Vertical 3-split Screen Switches.  
White: One colored plate for a 2-split screen and two colored plates for a 4-split screen.  
Red, green, or orange: One colored plate for a 2-split screen and one colored plates for a 4-split screen.

Ordering set combinations: Refer to pages 3.

■ Specifications: Refer to the A3P.  
■ Dimensions: Refer to page 10. Accessories: Refer to the A3P.

## Ordering Information

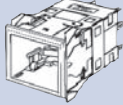
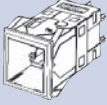
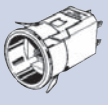
**Ordering Individually** ..... Displays, Lamps, and Sockets can be ordered separately. Combinations that are not available as sets can be created using individual Units. Also, store the parts as spares for maintenance and repairs.

**Lamp** (For mounting, refer to the A3P.)

### LED Lamp

Color	Voltage	5 VDC	12 VDC	24 VDC	Applicable cap (color) (colored plate)	Selection precautions
		Model (DC only)	Model (DC only)	Model (DC only)		
Red		SLL-05ER	SLL-12ER	SLL-24ER	Red	In the standard setup, 4 LED lamps are used with M2PJ models and 2 LED lamps are used with M2PA and M2PT models.
Yellow		SLL-05EY	SLL-12EY	SLL-24EY	Orange	
Green		SLL-05EG	SLL-12EG	SLL-24EG	Green	
White		SLL-05EW	SLL-12EW	SLL-24EW	White	

**Socket** (LED-lighted models)

Rectangular	Square	Round	Selection precautions
			
<b>Model</b>	<b>Model</b>	<b>Model</b>	
M2PJ-7010-1	M2PA-7010-1	M2PT-7010-2	<ul style="list-style-type: none"> <li>The end digit denotes the color of the flange: -1 denotes a black flange, and -2 denotes a light gray flange. Round switches are available only in light gray, and not in black.</li> </ul>

Ordering set combinations: Refer to pages 3.

■ Specifications: Refer to the A3P.

■ Dimensions: Refer to page 10. Accessories: Refer to the A3P.

## Ordering Information

### Accessories

Accessories are the same as those for the A3P Lighted Pushbutton Switches. Refer to the A3P.

### LED Ratings and Characteristics

Ratings and characteristics the same as those for the A3P Lighted Pushbutton Switches. Refer to the A3P.

### Approved Standard Ratings

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












LED: 24 VDC max.

Note: Certification has been obtained for the Indicator.

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

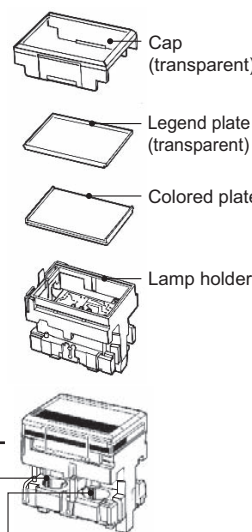
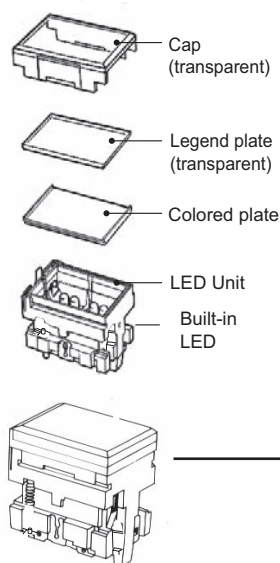
## Nomenclature

### Construction

Lighting method	LED-lighted models (LED is built-in.)		LED lamp-lighted models (LED is not built-in.)			
	M2PJ	M2PA	M2PJ		M2PA	M2PT
Models						
Screen pattern	Single screen 	Single screen 	Single screen  Horizontal 2-split screen  Vertical 2-split screen 	Vertical 3-split screen  Horizontal 3-split screen  4-split screen 	Single screen  Horizontal 2-split screen 	Single screen 

LED-lighted models

LED lamp-lighted models



**Display**

(Split-screen models contain light baffles.)

● **Display Colors:**  
· LED-lighted and LED lamp-lighted models  
White, Red, Green, Orange

**Lamp**

**Socket**

● **Case Color**

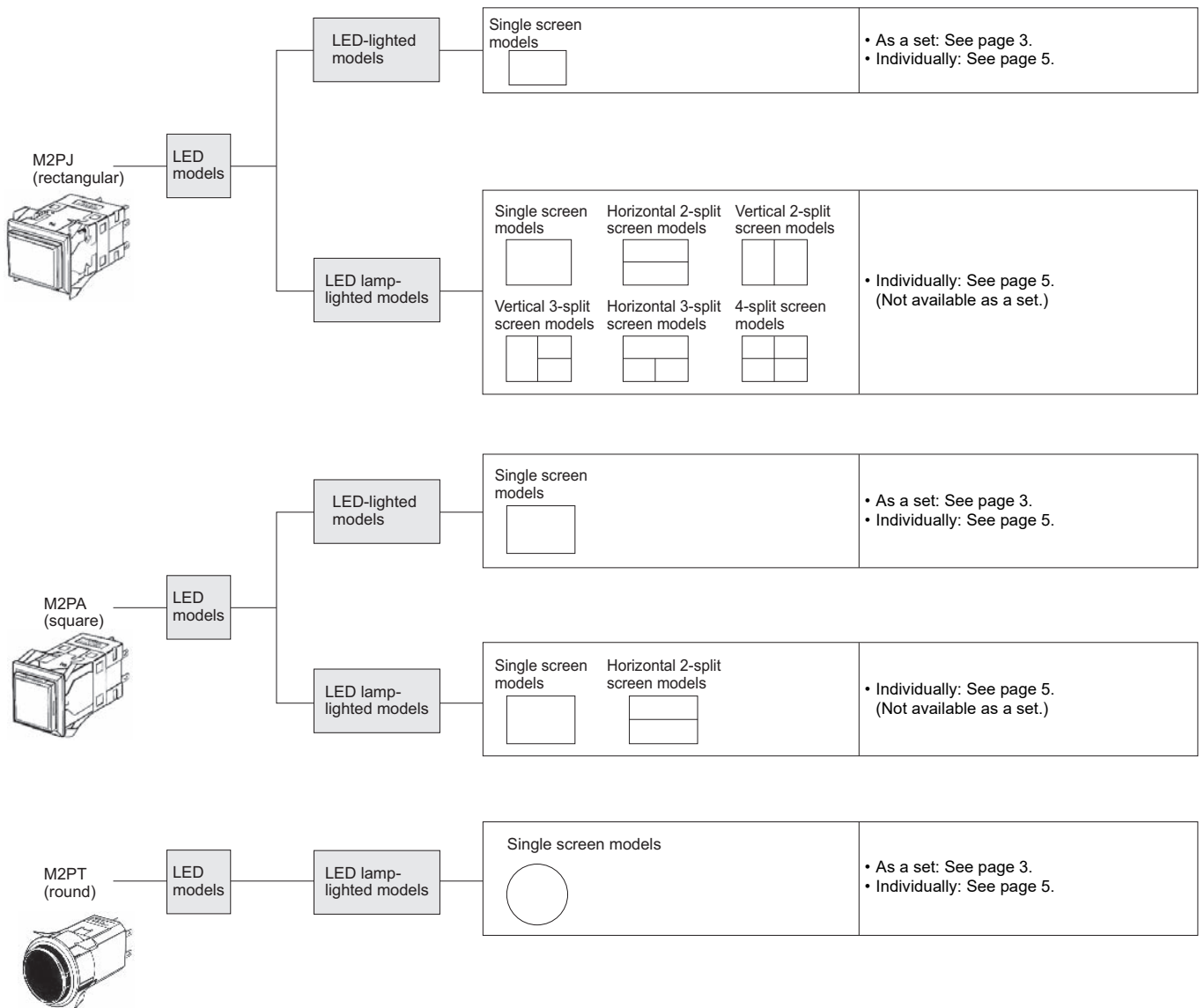
Select either black or light gray to suit your panel design. (The round M2PT models are available in light gray only.)

Note: The above diagram for LED lamp-lighted and incandescent lamp-lighted models shows the M2PJ model.



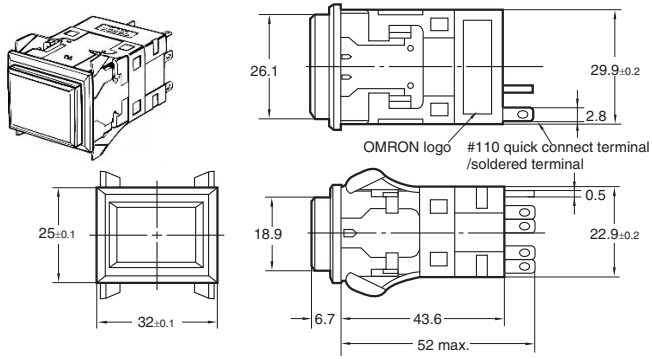
Nomenclature

M2P Lighting Method Diagram

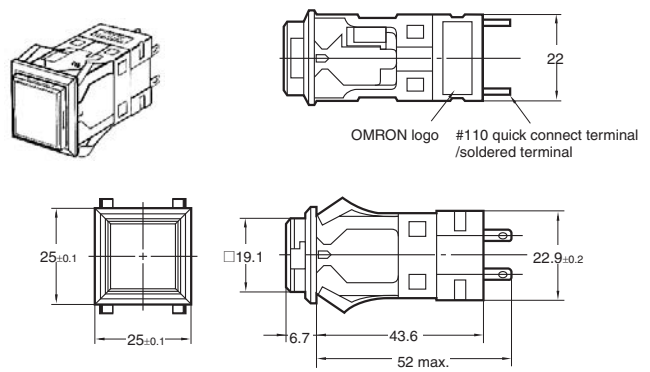


Dimensions

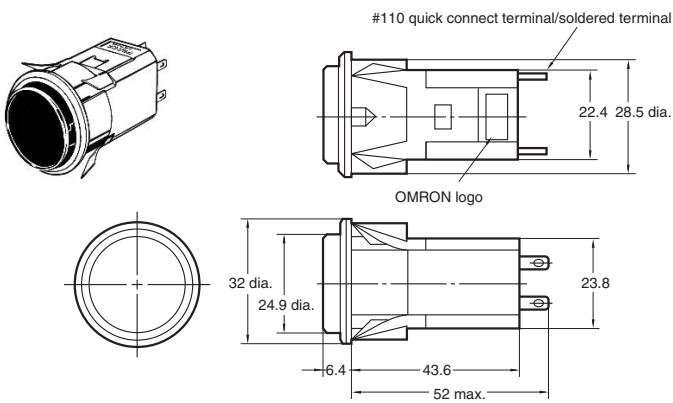
M2PJ (Rectangular) Models



M2PA (Square) Models



M2PT (Round) Models



Note: Use a panel thickness of 0.5 mm for tab terminals #110 and solder terminals.

Accessory Mounting Dimensions

Dimensions for mounting accessories are the same as those for the A3P Lighted Pushbutton Switches. Refer to the A3P.

Dimensions

Panel Cutout  
M2PJ (Rectangular) Models

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) 	Mount to long mounting plate (A3PJ-3002) before use. 	
	Multiple mounting (Vertical) 	Mount to long mounting plate (A3PJ-3002) before use. 	
Barrier mount models	Individual mounting (Horizontal) 		For barrier mount models, refer to Accessories on the A3P. Panel cutout spacing between rows of Units: Dotted line indicates the position of each mounting barrier. 
	Multiple mounting (Horizontal) 		
	Individual mounting (Vertical) 	Mount to long mounting plate (A3PJ-3002) before use. 	
	Multiple mounting (Vertical) 	Mount to long mounting plate (A3PJ-3002) before use. 	

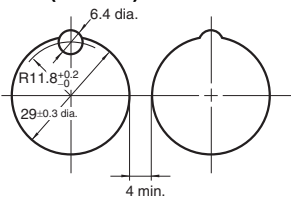
- Note: 1. n: Number of Units  
 2. Recommended panel thickness: 1 to 5 mm  
 3. Mount the panel before mounting the Switch Guard.  
 4. If the panel is to be finished (e.g., coated), make sure that the panel meets the specified dimensions after the coating.

M2PA (Square) Models

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 		

- Note: 1. n: Number of Units  
 2. Recommended panel thickness: 1 to 5 mm  
 3. If the panel is to be finished (e.g., coated), make sure that the panel meets the specified dimensions after the coating.

M2PT (Round) Models


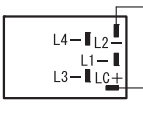
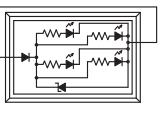
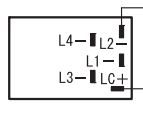
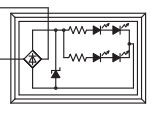
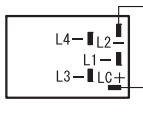
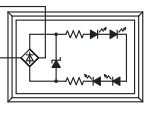

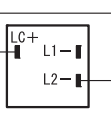
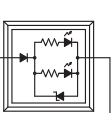
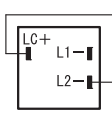
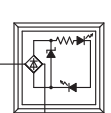


- Note: 1. Recommended panel thickness: 1 to 5 mm  
 2. If the panel is to be finished (e.g., coated), make sure that the panel meets the specified dimensions after the coating

Dimensions

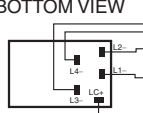
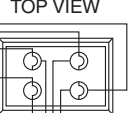
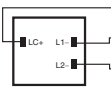


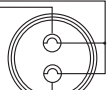
Terminal connections

LED-lighted Models

Rated voltage		5 VDC		12 VAC/VDC		24 VAC/VDC	
Model	Screen pattern						
M2PJ	Single screen 	BOTTOM VIEW	TOP VIEW	BOTTOM VIEW	TOP VIEW	BOTTOM VIEW	TOP VIEW
							
M2PA	Single screen 	BOTTOM VIEW	TOP VIEW	BOTTOM VIEW		TOP VIEW	
							

LED Lamp-lighted Models

(All are shown with the OMRON logo facing down. The terminal arrangements are the same as for the LED-lighted models.)

Type	Model	Rectangular M2PJ models		Square M2PA models		Round M2PT models	
Indicator		BOTTOM VIEW	TOP VIEW	BOTTOM VIEW	TOP VIEW	BOTTOM VIEW	TOP VIEW
							

## Safety Precautions

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Refer to *Safety Precautions for All Pushbutton Switches/Indicators* and *Safety Precautions for the A3P*.

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