

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	Lit
White	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.

(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.

(5) Color of Display For LED

Symbol	Color
R	Red
O	Orange
G	Green
W	White

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			

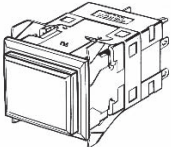
*2. These split screen models are available only as individual Units. They cannot be ordered as sets.

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

Rectangular
(Single Screen)



Single screen

(1)

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

Square
(Single Screen)



Single screen

(1)

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

Round
(Single Screen)



Single screen

(1)

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.)

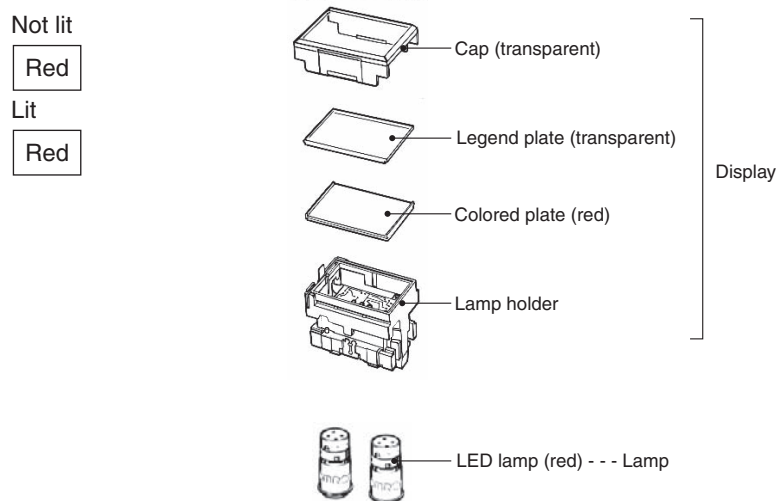
■ Specifications: Refer to the A3P.
■ Dimensions: Refer to page 10. Accessories: Refer to the A3P.

Ordering Information

Illumination-only and Colored-illumination LED Models

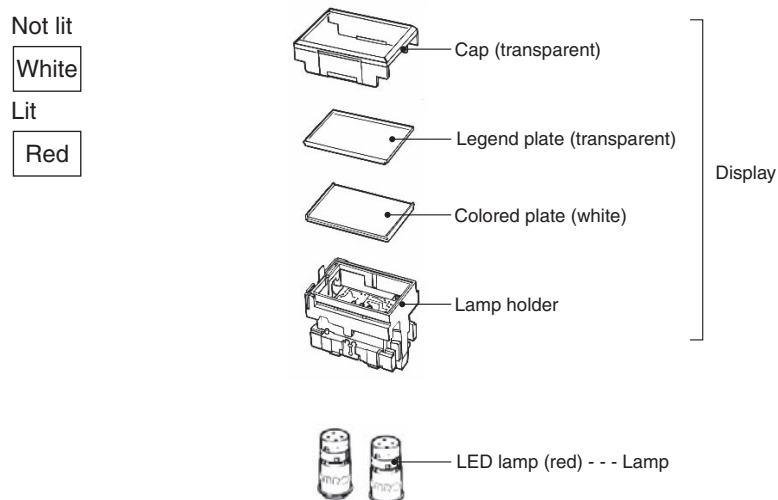
"Illumination only" describes LED models for which the screen color is the same whether the LED is lit or not. The screen simply becomes brighter when the LED lights.

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
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.	- Select the LED lamps to suit your desired coloration from the selection on page 7. - Number of necessary LED lamps (standard): M2PJ (rectangular): 4 M2PA (square): 2 M2PT (round): 2	Select from the Sockets on page 7.

Ordering Information

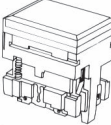
Ordering IndividuallyDisplays, Lamps, and Sockets can be ordered separately. Combinations that are not available as sets can be created using individual Units. Also, store the parts as spares for maintenance and repairs.

LED-lighted (Single screen models only)

(LED is built into the Display.)

Display

Round (M2PT) models not available.

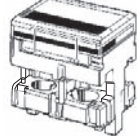


• M2P□-5□□□-□□E
(for Indicator)

LED Lamp-lighted Models

(LED lamp and Display are separate.)

Display



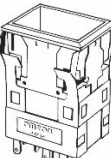
• M2P□-502□
(for Indicator)

Lamp (LED Lamp) *2



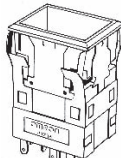
SLL-□□E□

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.

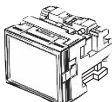
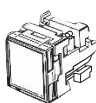
Ordering Information

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

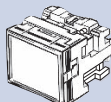
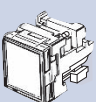
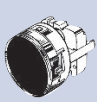
LED-lighted Models (LED is built-in.)

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	- Enter the voltage to be used in the □□ at the end of the model number. Examples of voltage used: 5 V=□<u>5</u>E 12 V=□<u>12</u>E 24 V=□<u>24</u>E - For the color of the shaded part, select the model according to the colors given at the top of the table.
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		
Screen pattern	Screen	Model	Screen	Model	Screen	Model
Single screen		M2PJ-5021		M2PA-5021		M2PT-5021
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	---	---	---	---

- 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.
- 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).
- The number of colored plates included for each model are shown in the following 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	2	1	1	1
Horizontal 3-split screen	3	2	2	2
Vertical 3-split screen *	3	2	2	2
4-split screen	4	1	1	1

* 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

Voltage	5 VDC	12 VDC	24 VDC	Applicable cap (color) (colored plate)	Selection precautions
Color	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
Model	Model	Model	
M2PJ-7010-1	M2PA-7010-1	M2PT-7010-2	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.

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)

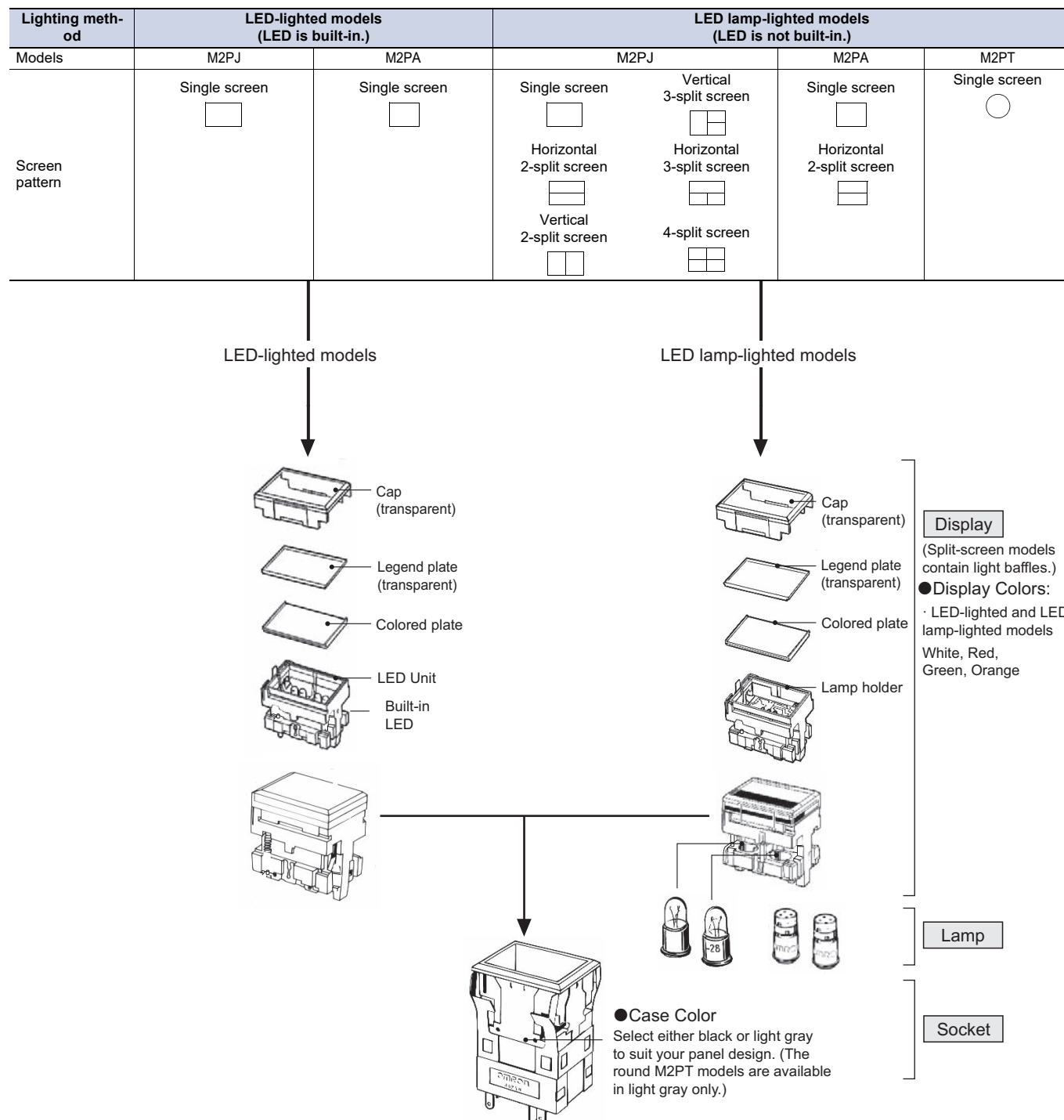
LED: 24 VDC max.

Note: Certification has been obtained for the Indicator.

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

Nomenclature

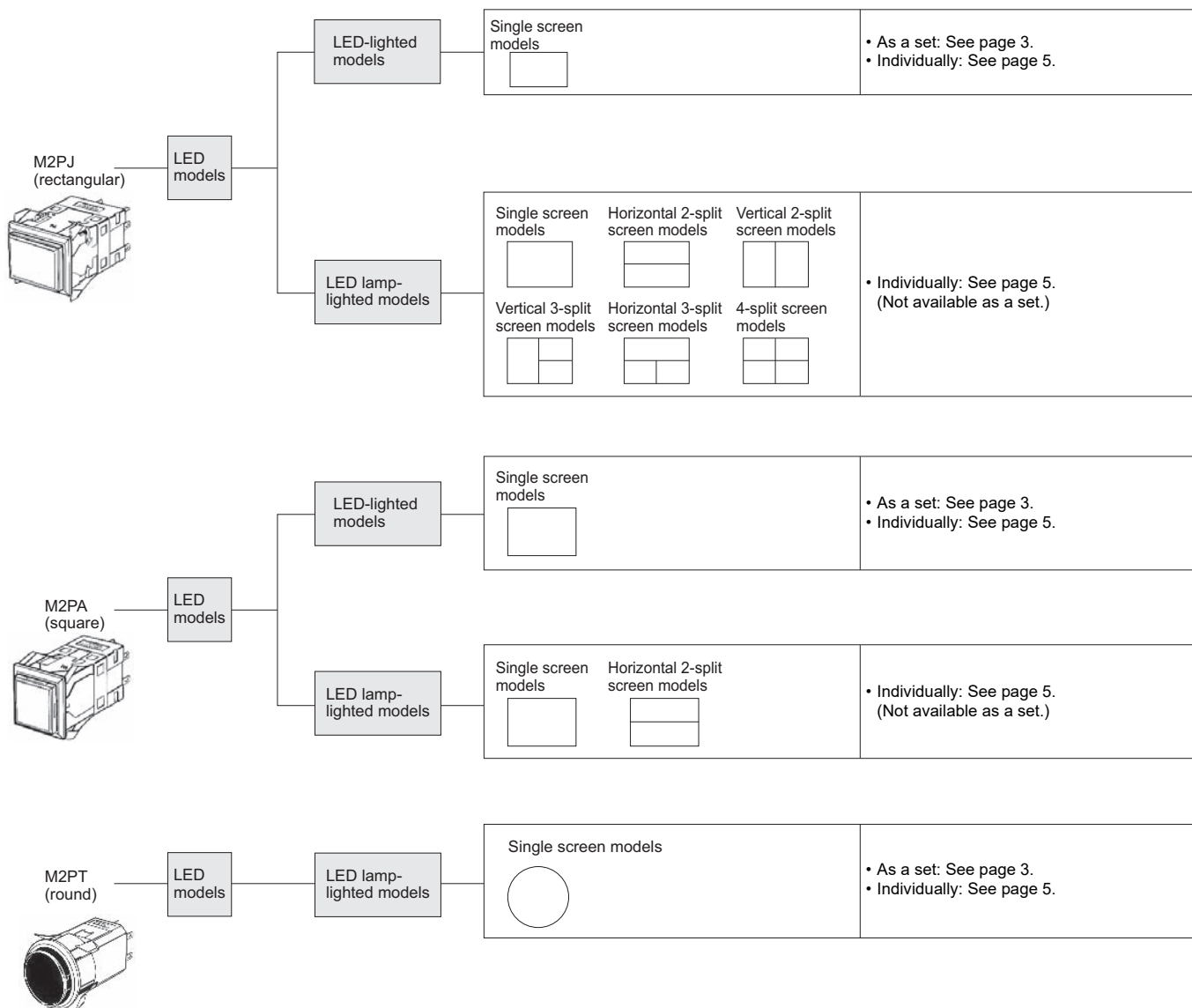
Construction



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

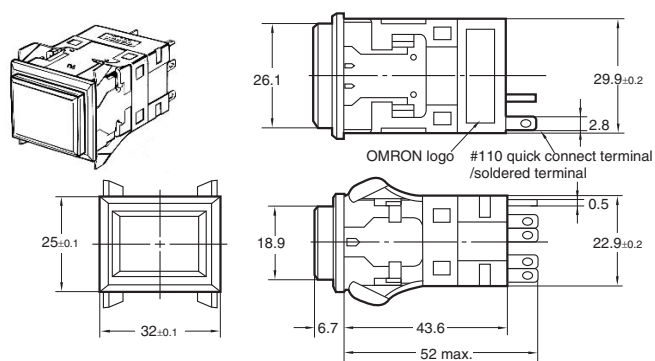
Nomenclature

M2P Lighting Method Diagram

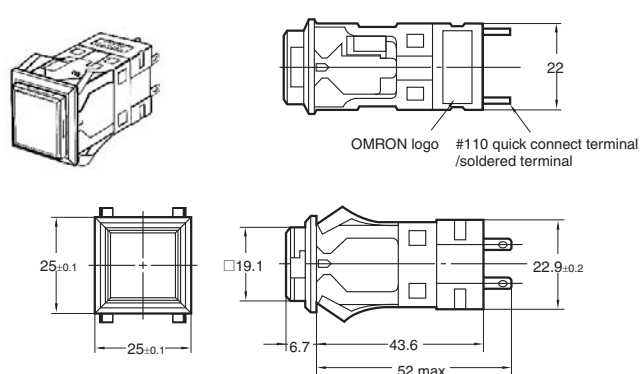


Dimensions

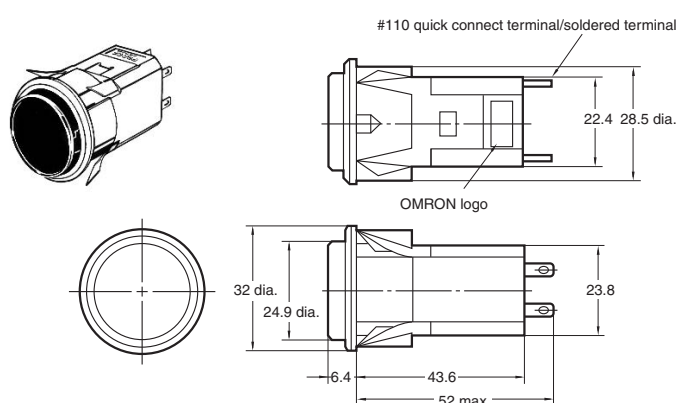
M2PJ (Rectangular) Models



M2PA (Square) Models



M2PT (Round) Models



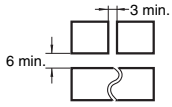
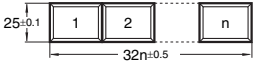
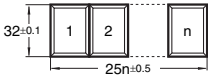
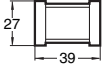
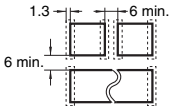
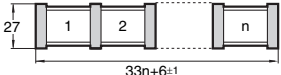
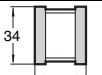
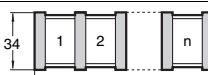
Note: Use a panel thickness of 0.5 mm for tab terminals #110 and solder terminals.

Accessory Mounting Dimensions

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

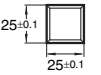
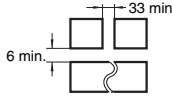
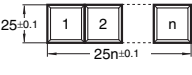
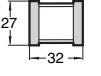
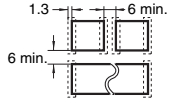
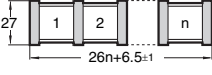
Dimensions

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)		
	Multiple mounting (Vertical)		
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)		
	Multiple mounting (Vertical)		

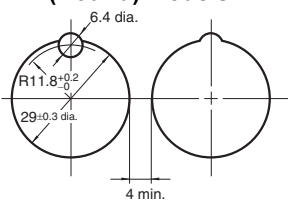
Note: 1. n: Number of Units
 2. Recommended panel thickness: 1 to 5 mm
 3. Mount the panel before mounting the Switch Guard.
 4. If the panel is to be finished (e.g., coated), make sure that the panel meets the specified dimensions after the coating.

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

(Unit: mm)

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

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

Terms and Conditions Agreement

Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

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.

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Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.

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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.

Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

Performance Data.

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Change in Specifications.

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