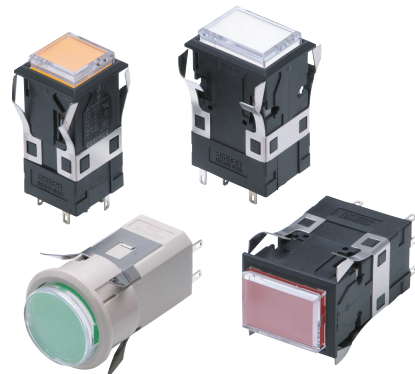


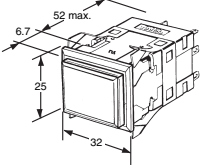
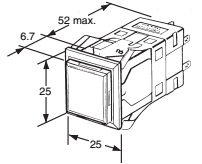
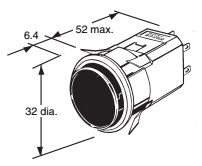
Large Square-bodied Lighted Pushbutton Switches

- Excellent operating sensitivity.
- Excellent illumination with even surface brightness.
- Three-color models (green, orange, red; chameleon lighting) included in lineup.



 Refer to *Safety Precautions for All Pushbutton Switches/Indicators* and *Safety Precautions* on page 22.

List of Models

Model	Appearance
A3PJ (Rectangular)	
A3PA (Square)	
A3PT (Round)	

Note: The A3PJ is shown in the figure above as an example.

■ Specifications: Refer to page 12. ■ Panel cutout: Refer to page 19. ■ Dimensions: Refer to page 16.
 ■ Accessories, replacements, and tools: Refer to pages 10 to 11. ■ Precautions for correct use: Refer to page 22.

Model Number Structure

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

For more information, refer to Ordering Information (pages 3 to 5).

Some forms may not be available for order depending on the combination of functions and specifications described below. Contact your OMRON sales representative for more detailed information.

(1) (2) (3) (4) (5) (6) Upper Lower
A 3 P J - 90 B 1 1 - 24 E R Single screen

(1) Shape of Pushbutton

Symbol	Shape
J	Rectangular
A	Square
T	Round

► Momentary operation: Self-resetting
► Alternate operation: Self-holding

(2) Switch Specifications Standard Load

Symbol	Operation	
A	Momentary	SPDT
B	Alternate	
C	Momentary	DPDT
D	Alternate	

Microload

Symbol	Operation	
E	Momentary	SPDT
F	Alternate	
G	Momentary	DPDT
H	Alternate	

- Standard Load
250 VAC, 3 A
30 VDC, 3 A
- Microload
125 VAC, 0.1 A
30 VDC, 0.1 A

Minimum applicable load
5 VDC, 1 mA

- 3PDT models are also available.
Select from among the individual products shown on page 9.

(3) Screen Pattern

Illumination-only models	
Symbol	Screen pattern
1	Single screen 
G	Chameleon *1 

Note: 1. The chameleon screen pattern is not available with A3PT models.
2. The chameleon screen pattern is only available with 12 or 24-VDC models.

*1. With chameleon models, the whole screen lights red, green, or orange. When not lit, the display is white.

Note: The available rectangular and square models are shown below. Select from among the individual products shown on page 8. (The square models are only available with horizontal 2-split screen models)

Horizontal 2-split screen models


Horizontal 3-split screen models


Vertical 2-split screen models


Vertical 3-split screen models


4-split screen models


The above diagrams show the Switches 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.

(4) Case Color

Symbol	Color
1	Black
2	Light gray

Note: A3PT models are available in light gray only.

(5) Lighting Method

LED-lighted Models (A3PJ and A3PA Models Only)

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

LED Lamp-lighted Models (A3PT Only)

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

- A3PJ and A3PA can also be ordered separately. Refer to page 8 for details.

(6) Color of Pushbutton For LED

Symbol	Color
R	Red
O	orange
G	green
W	white
K	Chameleon

- The chameleon screen pattern is not available with A3PT models.
- The chameleon screen pattern is only available with 12 or 24-VDC models.

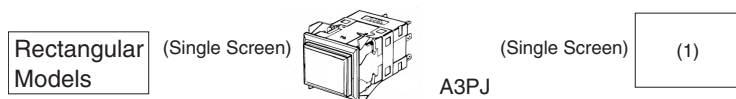
Number of LED Lamps

Screen pattern	A3PJ	A3PA	A3PT
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 Pushbutton, Lamp, and Switch.
(Not all combinations are possible. Ask your OMRON representative for details.)



Standard Loads

Contact type Operation			Standard load (250 VAC, 3 A; 30 VDC, 4 A)				Pushbutton color symbol
			Momentary operation (Self-resetting)		Alternate operation (Self-holding)		
			Black	Light gray	Black	Light gray	
Output	Lighting	Case color					
SPDT	LED	5 VDC	A3PJ-90A11-05E(1)	A3PJ-90A12-05E(1)	A3PJ-90B11-05E(1)	---	R O G W
		12 VAC/VDC	A3PJ-90A11-12E(1)	A3PJ-90A12-12E(1)	A3PJ-90B11-12E(1)	A3PJ-90B12-12E(1)	
		24 VAC/VDC	A3PJ-90A11-24E(1)	A3PJ-90A12-24E(1)	A3PJ-90B11-24E(1)	A3PJ-90B12-24E(1)	
	Chameleon	12 VDC	A3PJ-90AG1-12EK	---	---	---	*
		24 VDC	A3PJ-90AG1-24EK	A3PJ-90AG2-24EK	A3PJ-90BG1-24EK	A3PJ-90BG2-24EK	
	DPDT	LED	5 VDC	A3PJ-90C11-05E(1)	A3PJ-90C12-05E(1)	A3PJ-90D11-05E(1)	A3PJ-90D12-05E(1)
12 VAC/VDC			A3PJ-90C11-12E(1)	A3PJ-90C12-12E(1)	A3PJ-90D11-12E(1)	A3PJ-90D12-12E(1)	
24 VAC/VDC			A3PJ-90C11-24E(1)	A3PJ-90C12-24E(1)	A3PJ-90D11-24E(1)	A3PJ-90D12-24E(1)	
Chameleon		24 VDC	A3PJ-90CG1-24EK	A3PJ-90CG2-24EK	A3PJ-90DG1-24EK	---	*

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

Example: Red A3PJ-90A11-24E R

* You can change the screen colors of chameleon models between red, green, and orange, by changing the terminal wiring. Refer to page 18 for details.

Microloads

Contact type Operation			Microload (125 VAC, 0.1 A; 30 VDC, 0.1 A)		Pushbutton color symbol
			Momentary operation (Self-resetting)		
Output	Lighting	Case color	Black	Light gray	
SPDT	LED	5 VDC	A3PJ-90E11-05E(1)	A3PJ-90E12-05E(1)	R O G W
		12 VAC/VDC	A3PJ-90E11-12E(1)	---	
		24 VAC/VDC	A3PJ-90E11-24E(1)	A3PJ-90E12-24E(1)	
	Chameleon	24 VDC	A3PJ-90EG1-24EK	A3PJ-90EG2-24EK	*
DPDT	LED	5 VDC	A3PJ-90G11-05E(1)	---	R O G W
		12 VAC/VDC	A3PJ-90G11-12E(1)	---	
		24 VAC/VDC	A3PJ-90G11-24E(1)	A3PJ-90G12-24E(1)	
	Chameleon	24 VDC	A3PJ-90GG1-24EK	---	*

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

Example: Red A3PJ-90E11-24E R

* You can change the screen colors of chameleon models between red, green, and orange, by changing the terminal wiring. Refer to page 18 for details.

Individual models: Refer to pages 7 to 11.
(The Pushbutton, Lamp, and Switch can be ordered separately.)

■ Specifications: Refer to page 12. ■ Dimensions: Refer to page 16.
■ Accessories: Refer to pages 10 to 11.

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 Pushbutton, Lamp, and Switch.
(Not all combinations are possible. Ask your OMRON representative for details.)



Standard Loads

Output Lighting Case color			Contact type	Standard load (250 VAC, 3 A; 30 VDC, 4 A)				Pushbutton color symbol
			Operation	Momentary operation (Self-resetting)		Alternate operation (Self-holding)		
				Black	Light gray	Black	Light gray	
SPDT	LED	5 VDC	A3PA-90A11-05E(1)	A3PA-90A12-05E(1)	---	---	R O G W	
		12 VAC/VDC	A3PA-90A11-12E(1)	A3PA-90A12-12E(1)	A3PA-90B11-12E(1)	A3PA-90B12-12E(1)		
		24 VAC/VDC	A3PA-90A11-24E(1)	A3PA-90A12-24E(1)	A3PA-90B11-24E(1)	A3PA-90B12-24E(1)		
	Chameleon	24 VDC	A3PA-90AG1-24EK	A3PA-90AG2-24EK	A3PA-90BG1-24EK	A3PA-90BG2-24EK	*	
DPDT	LED	5 VDC	A3PA-90C11-05E(1)	---	---	---	R O G W	
		12 VAC/VDC	A3PA-90C11-12E(1)	A3PA-90C12-12E(1)	A3PA-90D11-12E(1)	A3PA-90D12-12E(1)		
		24 VAC/VDC	A3PA-90C11-24E(1)	A3PA-90C12-24E(1)	A3PA-90D11-24E(1)	A3PA-90D12-24E(1)		
	Chameleon	12 VDC	A3PA-90CG1-12EK	---	A3PA-90DG1-12EK	---	*	
		24 VDC	A3PA-90CG1-24EK	A3PA-90CG2-24EK	A3PA-90DG1-24EK	A3PA-90DG2-24EK		

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

Example: Red A3PA-90A11-24ER

* You can change the screen colors of chameleon models between red, green, and orange, by changing the terminal wiring. Refer to page 18 for details.

Microloads

Output Lighting Case color			Contact type	Microload (125 VAC, 0.1 A; 30 VDC, 0.1 A)		Pushbutton color symbol
			Operation	Momentary operation (Self-resetting)		
				Black	Light gray	
SPDT	LED	5 VDC	---	A3PA-90E12-05E(1)		R O G W
		12 VAC/VDC	A3PA-90E11-12E(1)	---		
		24 VAC/VDC	A3PA-90E11-24E(1)	A3PA-90E12-24E(1)		
	Chameleon	24 VDC	A3PA-90EG1-24EK	A3PA-90EG2-24EK		*
DPDT	LED	12 VAC/VDC	A3PA-90G11-12E(1)	---		R O G W
		24 VAC/VDC	A3PA-90G11-24E(1)	A3PA-90G12-24E(1)		
		Chameleon	12 VDC	A3PA-90GG1-12EK	---	

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

Example: Red A3PA-90E11-24ER

* You can change the screen colors of chameleon models between red, green, and orange, by changing the terminal wiring. Refer to page 18 for details.

Individual models: Refer to pages 7 to 11.
(The Pushbutton, Lamp, and Switch can be ordered separately.)

■ Specifications: Refer to page 12. ■ Dimensions: Refer to page 16.
■ Accessories: Refer to pages 10 to 11.

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 Pushbutton, Lamp, and Switch.



Standard Loads

Output Lighting Case color			Standard load (250 VAC, 3 A; 30 VDC, 4 A)		Pushbutton color symbol
			Operation	Alternate operation (Self-holding)	
			Momentary operation (Self-resetting)	Light gray	
SPDT	LED lamp	24 VDC	A3PT-90A12-24C(1)	A3PT-90B12-24C(1)	R O G W
DPDT	LED lamp	24 VDC	A3PT-90C12-24C(1)	A3PT-90D12-24C(1)	R O G W

Note: Enter the desired color symbols for the Pushbutton in (1) and (2). (R) = Red, (O) = Orange, (G) = Green, (W) = White.

Example: (Red) A3PT-90A12-24C(R)



Microloads

Output Lighting Case color			Microload (125 VAC, 0.1 A; 30 VDC, 0.1 A)	Pushbutton color symbol
			Operation	
			Momentary operation (Self-resetting)	
SPDT	LED lamp	24 VDC	A3PT-90E12-24C(1)	R O G

Note: Enter the desired color symbols for the Pushbutton in (1). (R) = Red, (O) = Orange, (G) = Green.

Example: (Red) A3PT-90E12-24C(R)

Individual models: Refer to pages 7 to 11.
(The Pushbutton, Lamp, and Switch can be ordered separately.)

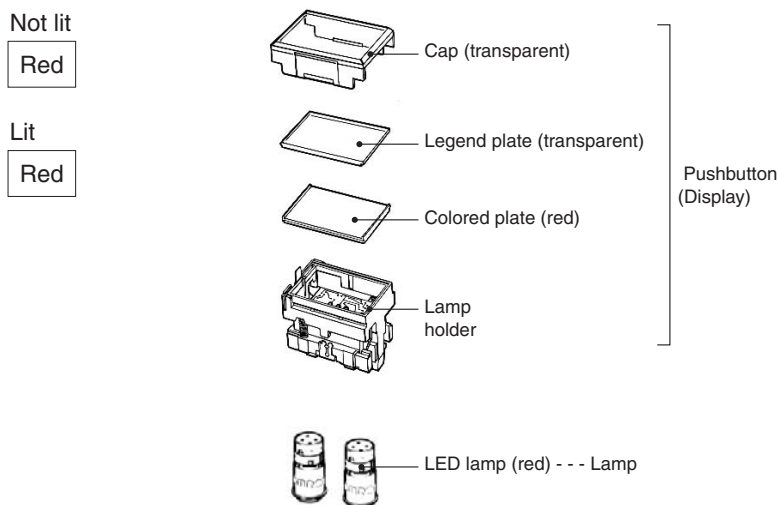
■ Specifications: Refer to page 12. ■ Dimensions: Refer to page 16.
■ Accessories: Refer to pages 10 to 11.

Ordering Information

Illumination-only and Colored-illumination LED Models

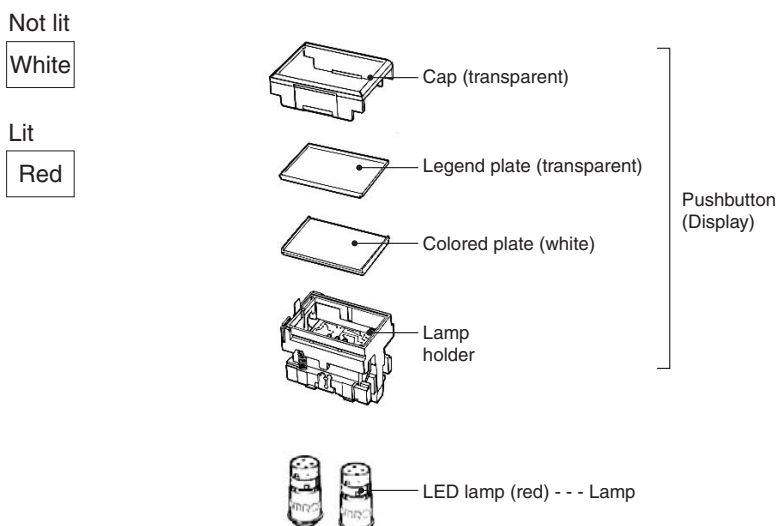
"Illumination only" describes LED models for which the screen color is the same whether the LED is lit or not. The screen simply becomes brighter when the LED lights.

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: With colored-illumination models, order the Pushbutton, Lamp, and Switch as shown in the following table.

Pushbutton	Lamp	Switch
Select the LED lamp-lighted model required from the selection on page 8. 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 include 4 white colored plates.	Select the LED lamps to suit your desired coloration from the selection on page 9. Number of necessary LED lamps (standard) A3PJ (rectangular): 4 A3PA (square): 2 A3PT (round): 2	Select from the Switches on page 9.

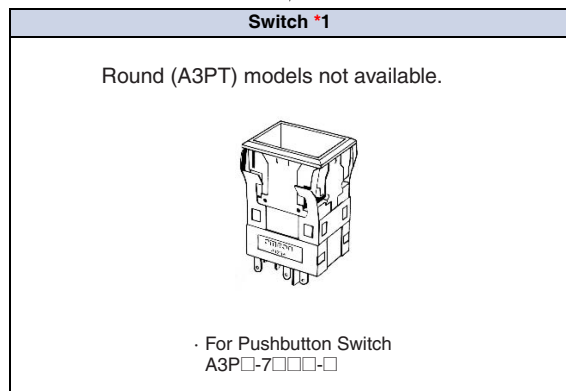
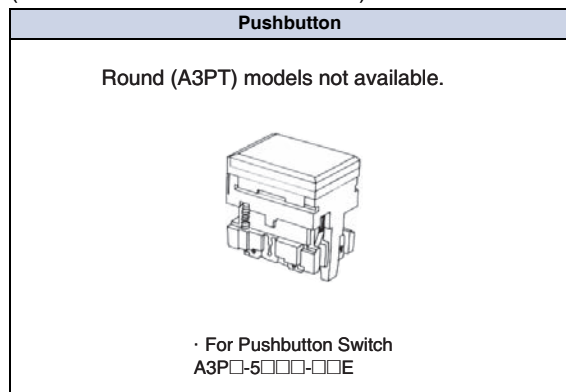
Ordering Information

Ordering Individually Pushbuttons, Lamps, and Switches 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)/

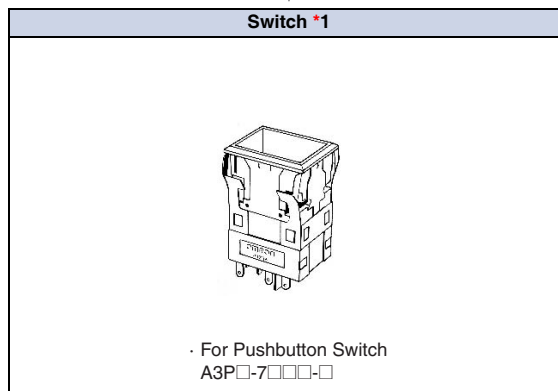
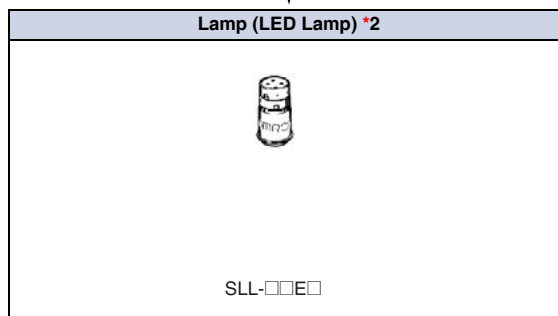
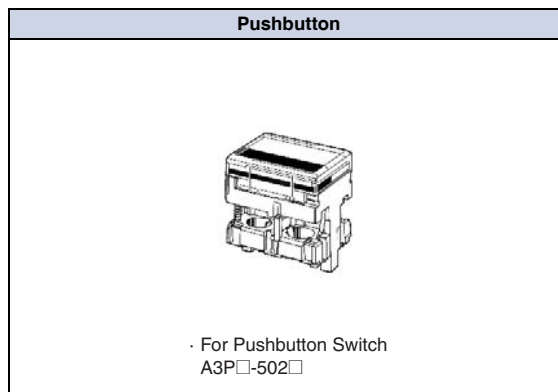
Chameleon Models

(LED is built into the Pushbutton.)



LED Lamp-lighted Models

(LED lamp and Pushbutton are separate.)



*1. The Switch is compatible with LED-lighted models and LED lamp-lighted models.

*2. Number of necessary LED lamps.

Screen pattern	A3PJ	A3PA	A3PT
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 page 3 to 5.

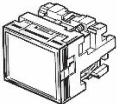
■ Specifications: Refer to page 12. ■ Dimensions: Refer to page 16.
■ Accessories: Refer to pages 10 to 11.

Ordering Information

Ordering Individually Pushbuttons, Lamps, and Switches 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.

Pushbutton

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

Appearance	Split-screen color (color symbol)		White (W)	Red (R)	Green (G)	Orange (O)	Selection precautions
Rectangular models 	Single screen		A3PJ-5701 -□□E	A3PJ-5702 -□□E	A3PJ-5703 -□□E	A3PJ-5706 -□□E	- Enter the voltage to be used in the □□ at the end of the model number. Examples of voltages used: 5V=0 5 E 12V=1 2 E 24V=2 4 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		A3PA-5701 -□□E	A3PA-5702 -□□E	A3PA-5703 -□□E	A3PA-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 Switch facing down.
3. The LED is built-in and cannot be replaced individually.

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

Appearance	Rectangular models		Square models		Round models		Selection precautions																																			
Screen pattern	Screen	Model	Screen	Model	Screen	Model																																				
Single screen		A3PJ-5021		A3PA-5021		A3PT-5021	- Parts included: 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. <table><tr><th>Screen pattern</th><th>White</th><th>Red</th><th>Green</th><th>Orange</th></tr><tr><td>Single screen</td><td>1</td><td>1</td><td>1</td><td>1</td></tr><tr><td>Horizontal 2-split screens</td><td>2</td><td>1</td><td>1</td><td>1</td></tr><tr><td>Vertical 2-split screens</td><td>2</td><td>1</td><td>1</td><td>1</td></tr><tr><td>Horizontal 3-split screens</td><td>3</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Vertical 3-split screens *</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></table>	Screen pattern	White	Red	Green	Orange	Single screen	1	1	1	1	Horizontal 2-split screens	2	1	1	1	Vertical 2-split screens	2	1	1	1	Horizontal 3-split screens	3	2	2	2	Vertical 3-split screens *	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 screens	2	1	1	1																																						
Vertical 2-split screens	2	1	1	1																																						
Horizontal 3-split screens	3	2	2	2																																						
Vertical 3-split screens *	3	2	2	2																																						
4-split screen	4	1	1	1																																						
Horizontal 2-split screen		A3PJ-5022		A3PA-5022	---																																					
Vertical 2-split screen		A3PJ-5023	---		---																																					
Horizontal 3-split screen		A3PJ-5024	---		---																																					
Vertical 3-split screen		A3PJ-5025	---		---																																					
4-split screen		A3PJ-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 page 3 to 5.

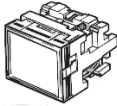
■ Specifications: Refer to page 12. ■ Dimensions: Refer to page 16.
■ Accessories: Refer to pages 10 to 11.

Ordering Information

Ordering Individually Pushbuttons, Lamps, and Switches 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.

Pushbutton (For information on mounting of LED lamps, refer to page 23.)

Chameleon Models (with Built-in LED)

Appearance	Rated voltage	Chameleon pushbutton switch
 Rectangular	12 VDC	A3PJ-5800-12E
	24 VDC	A3PJ-5800-24E
 Square	24 VDC	A3PA-5800-24E

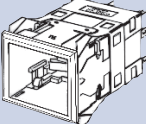
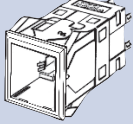
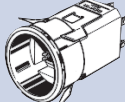
Note: 1. With chameleon models the whole screen lights red, green, or orange (i.e., red and green simultaneously).

2. A cap, legend plate (transparent), white colored plate, and LED (with a current-limiting resistor) are built into the Pushbutton.

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 A3PJ models and 2 LED lamps are used with A3PA and A3PT 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	

Switch (LED models)

Appearance				Rectangular models	Square models	Round models	Selection precautions
							
Contact type	Switch Number of outputs	Operation		Model	Model	Model	
Standard load	Silver alloy contact	1c	Momentary operation	A3PJ-7010-1	A3PA-7010-1	A3PT-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. Use the Switch in combination with the same shape Lamp (rectangular, square or round). Example: For rectangular Lamp A3PJ-5011, select Switch A3PJ-7□□0-□. On the Switch itself, however, only 3 digits are shown, as follows: A3PJ-7□□. Momentary operation is self-resetting, and alternate operation is self-holding (i.e., push-on, push-off).
			Alternate operation	A3PJ-7020-1	A3PA-7020-1	A3PT-7020-2	
		2c	Momentary operation	A3PJ-7030-1	A3PA-7030-1	A3PT-7030-2	
			Alternate operation	A3PJ-7040-1	A3PA-7040-1	A3PT-7040-2	
		3c	Momentary operation	A3PJ-7150-1	---	---	
			Alternate operation	A3PJ-7160-1	---	---	
Microload	Gold alloy contact	1c	Momentary operation	A3PJ-7050-1	A3PA-7050-1	A3PT-7050-2	
			Alternate operation	A3PJ-7060-1	A3PA-7060-1	A3PT-7060-2	
		2c	Momentary operation	A3PJ-7070-1	A3PA-7070-1	A3PT-7070-2	
			Alternate operation	A3PJ-7080-1	A3PA-7080-1	A3PT-7080-2	
		3c	Momentary operation	A3PJ-7170-1	---	---	
			Alternate operation	A3PJ-7180-1	---	---	

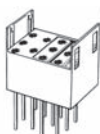
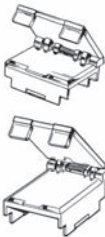
Ordering set combinations: Refer to page 3 to 5.

■ Specifications: Refer to page 12. ■ Dimensions: Refer to page 16.
■ Accessories: Refer to pages 10 to 11.

Ordering Information

Accessories, Replacements, and Tools

Accessories

Name	Appearance	Classification		Rectangular	Square	Application precautions
Socket		Wire-wrap terminal		A3PJ-4101	A3PA-4101	• The Socket cannot be used with when mounting multiple Switches or with 3C models. • You can use the same Sockets for the A3P Ultra Bright Lighted Pushbutton Switches.
		PCB terminal		A3PJ-4102	A3PA-4102	
		Solder terminal		A3PJ-4103	A3PA-4103	
Barrier		Short edge barrier (Horizontal mounting) (1 pair)	Black	A3PJ-4001	A3PA-4001	• The purpose of the barrier is to prevent malfunctioning and to improve design image of the mounting panel. • Intermediate barrier × 1. • Edge barriers × 1 pair (2 Units). • Mount short barriers horizontally. • Mount long barriers vertically. • For details on mounting, refer to page 23. • You can use the same Sockets for the A3P Ultra Bright Lighted Pushbutton Switches.
			Light gray	A3PJ-4002	A3PA-4002	
		Long edge barrier (Vertical mounting) (1 pair)	Black	A3PJ-4004	---	
			Light gray	A3PJ-4005		
		Short intermediate barrier (Horizontal mounting)	Black	A3PJ-4007	A3PA-4007	
			Light gray	A3PJ-4008	A3PA-4008	
		Long intermediate barrier (Vertical mounting)	Black	A3PJ-4010	---	
			Light gray	A3PJ-4011		
Switch guard		For horizontal mounting (with OMRON logo facing down)		A3PJN-5050	A3PAN-5050	• Can be used by exchanging with the cap. • Cannot be used with seal cover. • Can be used with barrier. • Use horizontal mounting guard for consecutive horizontal mounting, and use vertical mounting guard for consecutive vertical mounting. • You can use the same Sockets for the A3P Ultra Bright Lighted Pushbutton Switches.
		For vertical mounting (with OMRON logo facing to the right)		A3PJN-5055	A3PAN-5055	
Seal cover		---		A3PJ-5060	A3PA-5060	• Cannot be used with barrier and/or switch guard. • For details on mounting, refer to page 23. • Cap is manufactured from vinyl chloride. • You can use the same Sockets for the A3P Ultra Bright Lighted Pushbutton Switches.
Long mounting plate		---		A3PJ-3002	---	• Use when vertically mounting individual (with barrier) or multiple Switches (in standard mounting style and with barrier). Since a short mounting plate is attached to the Switch, replace it with the long one. • You can use the same Sockets for the A3P Ultra Bright Lighted Pushbutton Switches.

Ordering Information

Accessories

Name	Appearances	Classification		A3PJ	A3PA	Application precautions
Colored plate for LED		Single screen 	White	A3PJ-5301	A3PA-5301	• Keep mounted at all times. If the colored plate is lost or damaged, contact OMRON. • Use in accordance with coloring of the built-in LED. • For details on mounting, refer to page 23. • You cannot use the same Colored Plates for Incandescent Lamps for the A3P Ultra Bright Lighted Push-button Switches.
			Red	A3PJ-5302	A3PA-5302	
			Green	A3PJ-5303	A3PA-5303	
			Yellow	A3PJ-5305	A3PA-5305	
			Orange	A3PJ-5306	A3PA-5306	
		Horizontal 2-split screen 	White	A3PJ-5321	A3PA-5321	
			Red	A3PJ-5322	A3PA-5322	
			Green	A3PJ-5323	A3PA-5323	
			Yellow	A3PJ-5325	A3PA-5325	
			Orange	A3PJ-5326	A3PA-5326	
		Vertical 2-split screen 	White	A3PJ-5331	---	
			Red	A3PJ-5332	---	
			Yellow	A3PJ-5335	---	
			Orange	A3PJ-5336	---	
4-split screen 	White	A3PJ-5361	---			
	Red	A3PJ-5362	---			
	Green	A3PJ-5363	---			
	Orange	A3PJ-5366	---			
Light baffle		Horizontal 2-split screen		A3PJ-4302	A3PA-4302	• Keep mounted at all times. If the light baffle is lost, contact OMRON. • Used in LED lamp-lighted models. Cannot be used in LED-lighted models. • You cannot use the same Colored Plates for Incandescent Lamps for the A3P Ultra Bright Lighted Push-button Switches.
		Vertical 2-split screen		A3PJ-4303	---	
		Horizontal 3-split screen 	Long axis	A3PJ-4304	---	
			Short axis	A3PJ-4305	---	
		Vertical 3-split screen	Long axis	A3PJ-4306	---	
		4-split screen	Long axis	A3PJ-4304	---	
Legend plate		Transparent legend plate		A3PJ-5202	A3PA-5202	• A transparent legend plate is mounted on the Pushbutton. • You cannot use the same Colored Plates for Incandescent Lamps for the A3P Ultra Bright Lighted Push-button Switches.
		Milk-white legend plate		A3PJ-5201	A3PA-5201	
Cap		Transparent cap		A3PJ-5600	A3PA-5600	• You can use the same Sockets for the A3P Ultra Bright Lighted Push-button Switches. • The surface is crimp-processed, so there is no reflection. • You can use the same Sockets for the A3P Ultra Bright Lighted Push-button Switches.
		Crimp-processed transparent cap		A3PJ-5600-A	A3PA-5600-A	

Tools

Name	Appearance	Classification	Model	Application precautions
Extractor		---	A3PJ-5080	- Use to extract components when replacing the Pushbutton. - You can use the same Sockets for the A3P Ultra Bright Lighted Push-button Switches.

Specifications

Approved Standard Ratings

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

Standard Load:	5 A at 125 VAC
	3 A at 250 VAC
Microload:	0.1 A at 125 VAC
	0.1 A at 30 VDC

Note: 1. Certification has been obtained for the Switch Unit.
For detailed information on individual products that have received certification, consult your supplier.
2. Only Switch output 1c and 2c are certified.

CCC (GB/T14048.5)

Standard Load:	3 A at 250 VAC
	4 A at 30 VDC
Microload:	0.1 A at 125 VAC
	0.1 A at 30 VDC

Note: Only Switch output 1c and 2c are certified.

Ratings

Contact Ratings

Silver Alloy Contacts (for Standard Loads)

Rated voltage (V)	Non-inductive load (A)				Inductive load (A)			
	Resistive load		Lamp load		Inductive load		Motor load	
	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC	5		0.7		3		1.3	
250 VAC	3		0.5		2		0.8	
8 VDC	5		2		4		3	
14 VDC	5		2		4		3	
30 VDC	4		2		3		3	
125 VDC	0.4		0.05		0.4		0.05	
250 VDC	0.2		0.03		0.2		0.03	

Note: 1. The above values are for steady-state currents.
2. Inductive load: Power factor = 0.4; time constant = 7 ms.
3. The lamp load has an inrush current of 10 times the steady-state current.
4. The motor load has an inrush current of 6 times the steady-state current.

Standard testing condition

- (1) Ambient temperature: $20 \pm 2^{\circ}\text{C}$
(2) Ambient humidity: $65 \pm 5\%\text{RH}$
(3) Operating frequency: 20 times/min.

Gold Alloy Contacts (for Microloads)

Rated voltage (V)	0.1 A at 30 VDC (resistive load); 0.1 A at 125 VAC (resistive load)
Minimum applicable load	1 mA at 5 VDC

LED Ratings

LED for LED-lighted Models

Single screen

Model		A3PJ/M2PJ			A3PA/M2PA		
Applied voltage	Rated voltage	Current			Current		
		Red, white	Orange	Green	Red, white	Orange	Green
5 VDC $\pm 5\%$	5 VDC	Approx. 40 mA	Approx. 20 mA	Approx. 18 mA	Approx. 20 mA	Approx. 10 mA	Approx. 9 mA
12 VAC/VDC $\pm 5\%$	12 VAC/VDC	Approx. 20 mA	Approx. 10 mA	Approx. 8 mA	Approx. 10 mA	Approx. 5 mA	Approx. 4 mA
24 VAC/VDC $\pm 5\%$	24 VAC/VDC	Approx. 10 mA	Approx. 5 mA	Approx. 4 mA	Approx. 10 mA	Approx. 5 mA	Approx. 4 mA

LED for Chameleon Models

Applied voltage	Rated voltage	Current	
		Green	Red
12 VDC $\pm 5\%$	12 VDC	Approx. 26 mA	Approx. 20 mA
24 VDC $\pm 5\%$	24 VDC	Approx. 13 mA	Approx. 10 mA

LED Lamp (for LED Lamp-lighted Models)

Type	Applied voltage	Rated voltage	Current	Model
DC only	5 VDC $\pm 5\%$	5 VDC	Approx. 30 mA	SLL-05E□
	12 VDC $\pm 5\%$	12 VDC	Approx. 15 mA	SLL-12E□
	24 VDC $\pm 5\%$	24 VDC	Approx. 12.5 mA	SLL-24E□

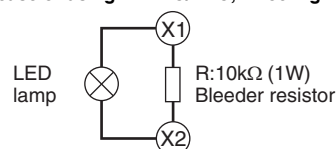
• Mis-lighting of the LED

The LED lights with approx. 0.1 mA or less of micro-current. Take a countermeasure like adding a resistor to prevent mis-lighting in parallel to the LED.

The micro-current varies with the machine (leak current or stray capacity between cables, etc.). Select resistance value and allowable power consumption that meet the actual current.

(Circuit example)

In case of using 24 VAC/VDC, Direct lighting



Characteristics

Operating frequency	Mechanical	120 operations/minute max. *1
	Electrical	30 operations/minute max.
Insulation resistance		100 MΩ min. (at 500 VDC)
Contact resistance	Standard load	40 mΩ max. (initial value)
	Microload	40 mΩ max. (initial value)
Dielectric strength	Between terminals of same polarity	1,000 VAC, 50/60 Hz for 1 minute *2
	Between terminals of different polarity	2,000 VAC, 50/60 Hz for 1 minute
	Between current-carrying metal part and ground	2,000 VAC, 50/60 Hz for 1 minute
	Between each terminal and non-current-carrying metal part	2,000 VAC, 50/60 Hz for 1 minute
	Between lamp terminals	1,000 VAC, 50/60 Hz for 1 minute *3
Vibration resistance	Malfunction	10 to 55 Hz, 1.5 mm double amplitude (1 ms max.)
Shock resistance	Destruction	500 m/s ² max.
	Malfunction	200 m/s ² max. (1 ms max.)
Life expectancy	Mechanical	Momentary operation models: 1,000,000 operations min. Alternate operation models: 200,000 operations min. (One operation consists of set and reset operations.)
	Electrical	100,000 operations min.
Weight		Approx. 30 g
Inrush current	NC	Silver contact: 10 A max.
	NO	Silver contact: 10 A max.
Ambient operating temperature		LED-lighted models: -10°C to 40°C (with no icing or condensation)
Ambient operating humidity		35% to 85%RH
Ambient storage temperature		-25°C to 65°C
Degree of protection		IP40
Electric shock protection class		Class II
PTI (proof tracking index)		175
Pollution degree		3 (IEC947-5-1)

*1. With alternate operation models, 60 operations/minute max. One operation cycle consists of set and reset operations.

*2. 600 VAC for microloads.

*3. With no LED lamp mounted.

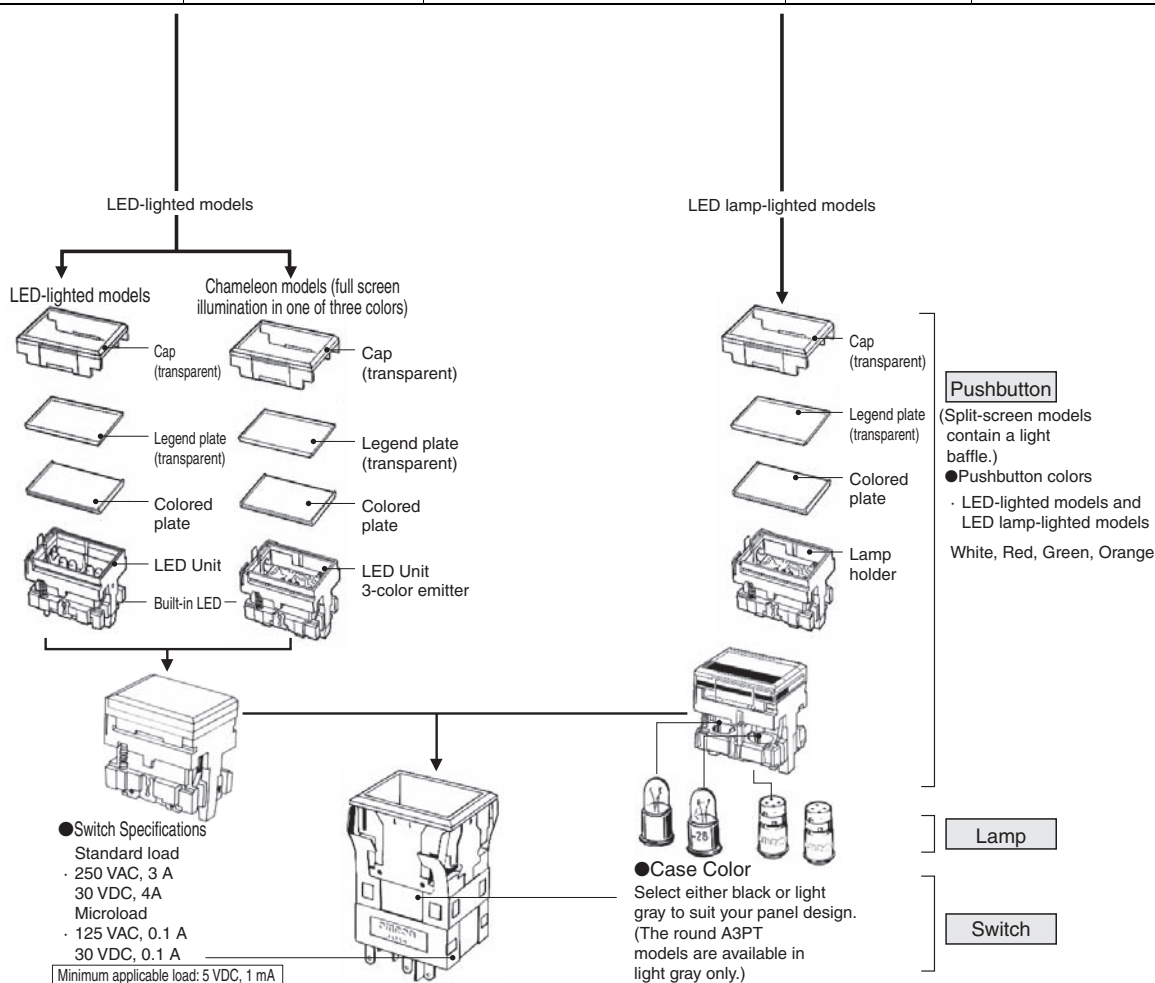
Operating Characteristics

Operating Characteristics	Model	A3PJ series		A3PA series		A3PT series	
		Momentary operation models	Alternate operation models	Momentary operation models	Alternate operation models	Momentary operation models	Alternate operation models
Operating force	OF max.	5.88 N	6.86 N	5.88 N	6.86 N	3.92 N	4.90 N
Releasing force	RF min.	0.39 N	0.29 N	0.39 N	0.29 N	0.39 N	0.29 N
Total travel	TT	Approx. 3.5 mm	Approx. 3.5 mm	Approx. 3.5 mm	Approx. 3.5 mm	Approx. 3.5 mm	Approx. 3.5 mm
Pretravel	PT max.	3 mm	3 mm	3 mm	3 mm	3 mm	3 mm
Lock travel alternate	LTA min.	---	0.5 mm	---	0.5 mm	---	0.5 mm

Nomenclature

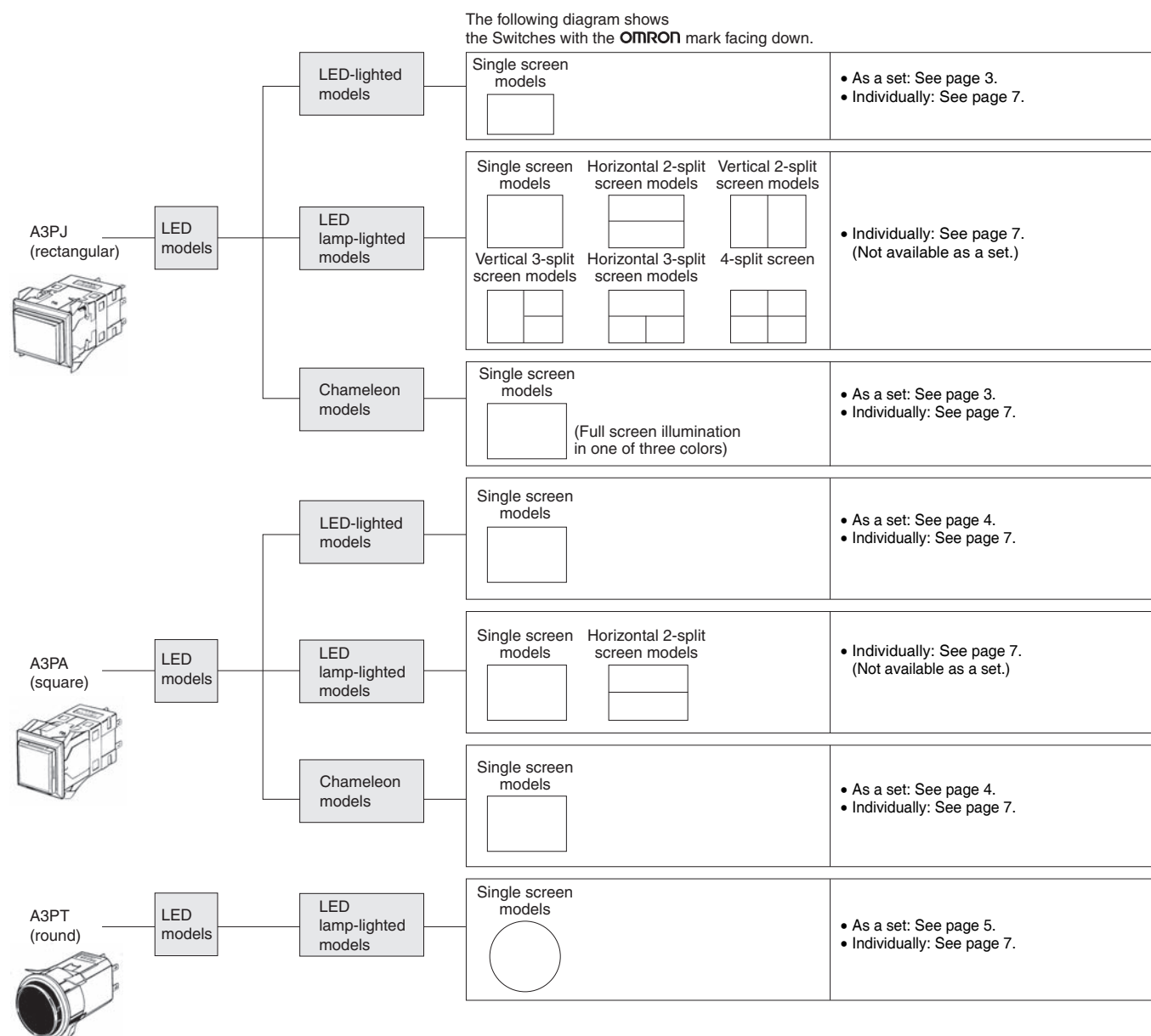
Model Structure

Lighting method	LED-lighted models (LED is built-in.)		LED lamp-lighted models (LED lamp is not built-in.)		
	A3PJ	A3PA	A3PJ	A3PA	A3PT
Screen patterns	Single screen 	Single screen 	Single screen 	Single screen 	Single screen 
	Chameleon (3-color) 	Chameleon (3-color) 	Vertical 3-split screen 	Horizontal 2-split screen 	
			Horizontal 2-split screen 		
			Vertical 2-split screen 	4-split screen 	



Nomenclature

A3P Lighting Method Diagram

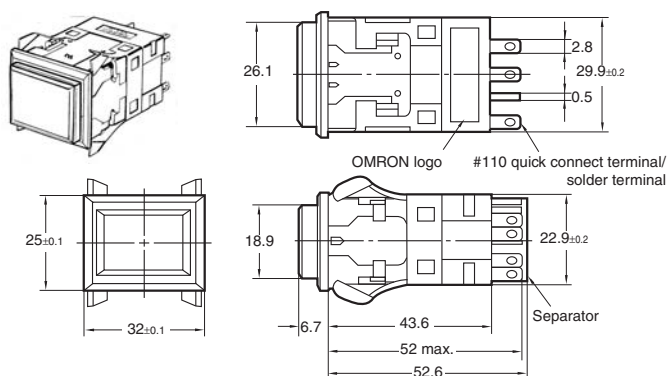


Dimensions

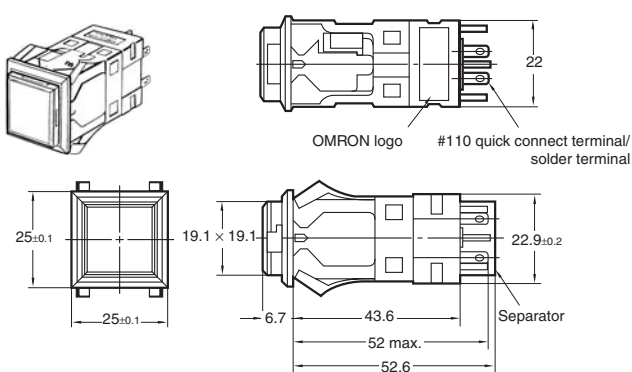
The Dimension shows switch output 2c.

(Unit: mm)

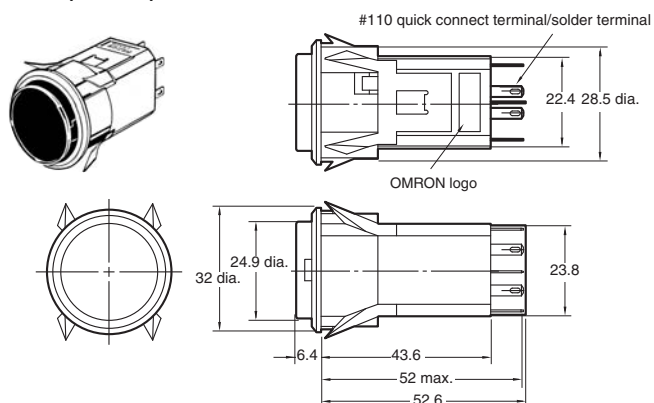
A3PJ (Rectangular) Models



A3PA (Square) Models



A3PT (Round) Models



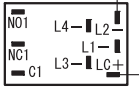
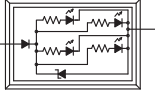
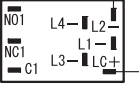
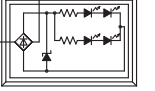
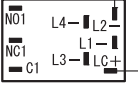
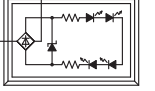
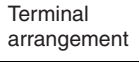
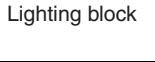
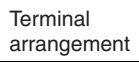
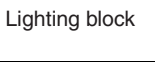
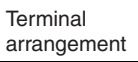
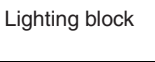
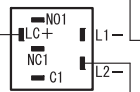
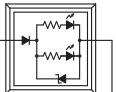
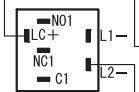
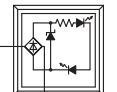
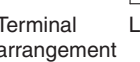
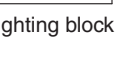
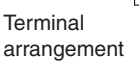
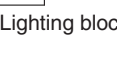
Note: The thickness of tab terminals #110 and solder terminals is 0.5 mm.

Dimensions

Terminal connections

LED-lighted Models

(The terminal arrangement diagram shows switch output 1c. Connections to terminals from the lighting block are the same for switch output 2c.)

Rated voltage Model Screen pattern		5 VDC	12 VAC/VDC	24 VAC/VDC
A3PJ	Single screen 	Bottom view  Top view 	Bottom view  Top view 	Bottom view  Top view 
		Terminal arrangement  Lighting block 	Terminal arrangement  Lighting block 	Terminal arrangement  Lighting block 
A3PA	Single screen 	Bottom view  Top view 	Bottom view  Top view 	
		Terminal arrangement  Lighting block 	Terminal arrangement  Lighting block 	

Dimensions

LED Lamp-lighted Models

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

Output	Model	Rectangular A3PJ models	Square A3PA models	Round A3PT models
SPDT		Bottom view Top view Terminal arrangement Lighting block	Bottom view Top view Terminal arrangement Lighting block	Bottom view Top view Terminal arrangement Lighting block
PPDT		Bottom view Top view Terminal arrangement Lighting block	Bottom view Top view Terminal arrangement Lighting block	Bottom view Top view Terminal arrangement Lighting block
3PDT		Bottom view Top view Terminal arrangement Lighting block	---	---

LED Chameleon Models

(The terminal arrangement diagram shows switch output 1c. Connections to terminals from the lighting block are the same for switch output 2c.)

Rated voltage	24 VDC
Model	
Rectangular A3PJ model	
Square A3PA model	

Terminal Arrangement and Coloring Chameleon Models

Wiring	LC+	LC+	LC+
Coloring	Green	Red	Orange

Dimensions

Panel Cutout (If using a Switch Guard or Seal Cover, refer to the panel cutout diagrams on page 21.)

A3PJ (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 page 10. 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.

A3PA (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		

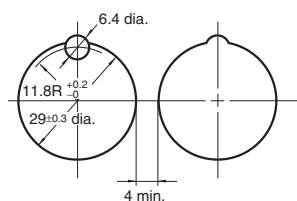
Note: 1. n: Number of Units

2. Recommended panel thickness: 1 to 5 mm

3. 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.

A3PT (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.

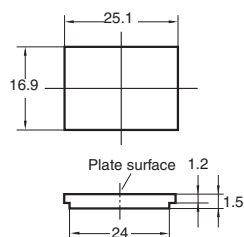
Dimensions

Accessory Mounting Dimensions

Legend Plate

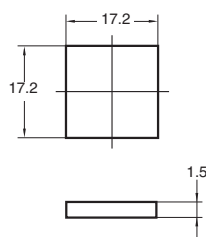
Rectangular Models

A3PJ-5201/-5202



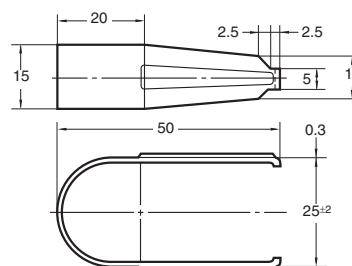
Square Models

A3PA-5201/-5202



Extractor

A3PJ-5080

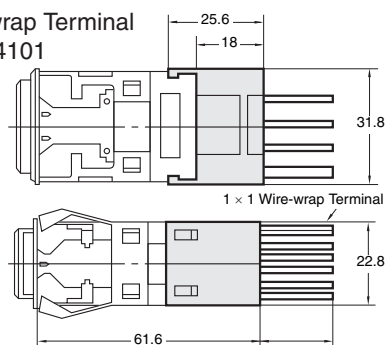


Note: Made from stainless steel.

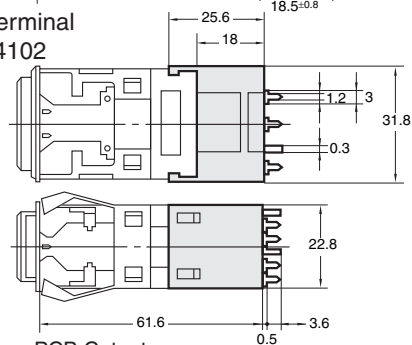
Socket-mounting Dimensions

Rectangular Models A3PJ (M2PJ)

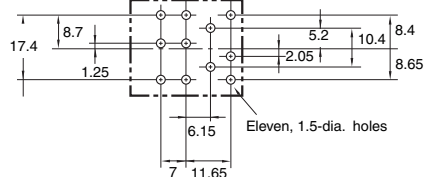
Wire-wrap Terminal A3PJ-4101



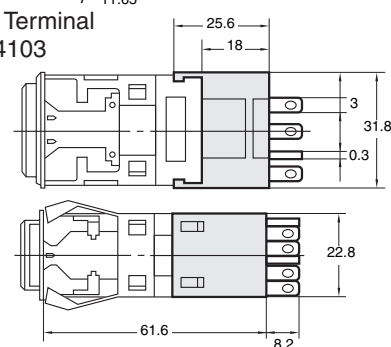
PCB Terminal A3PJ-4102



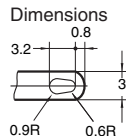
PCB Cutout (bottom view)



Solder Terminal A3PJ-4103

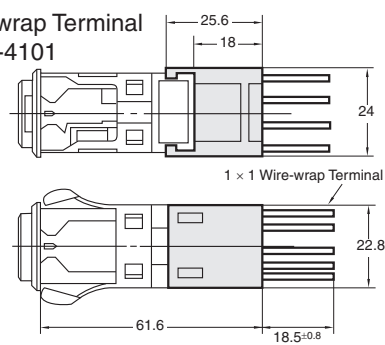


Terminal Hole Dimensions

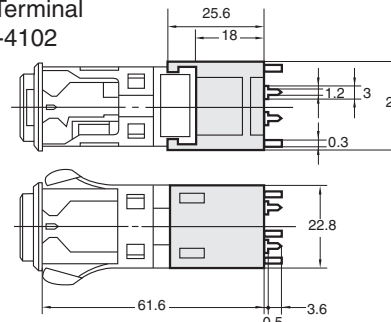


Square Models A3PA (M2PA)

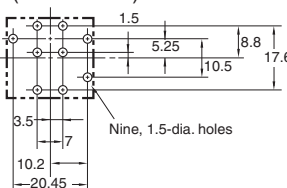
Wire-wrap Terminal A3PA-4101



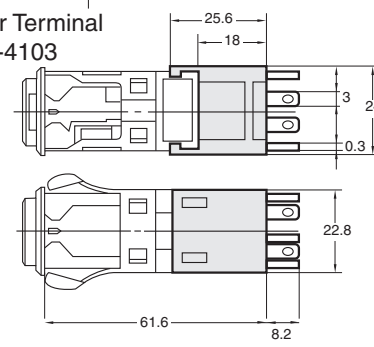
PCB Terminal A3PA-4102



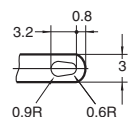
PCB Cutout (bottom view)



Solder Terminal A3PA-4103



Terminal Hole Dimensions



Note: PCB cutout dimensions show the switch mounted to the socket with the OMRON logo facing down.

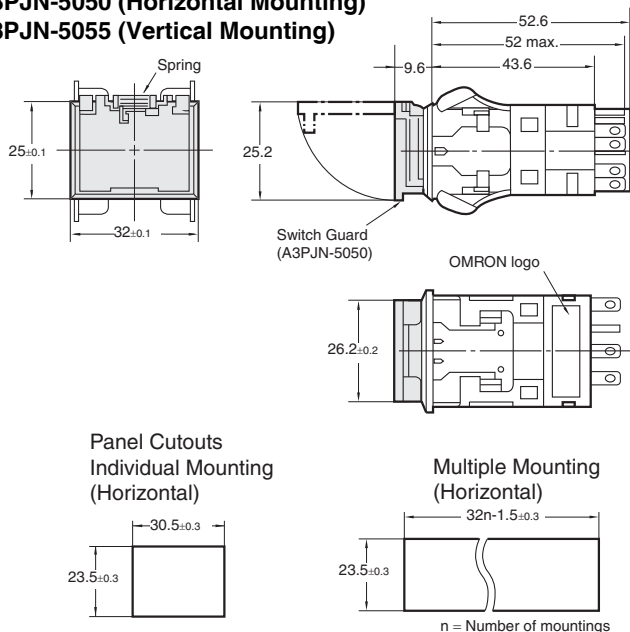
Dimensions

Switch and Guard Mounting Dimensions

Rectangular Models

A3PJN-5050 (Horizontal Mounting)

A3PJN-5055 (Vertical Mounting)

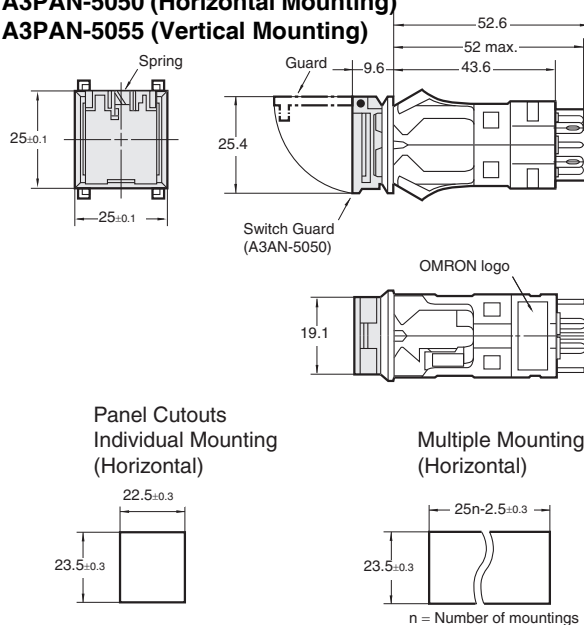


Note: Multiple vertical mounting is not possible.

Square Models

A3PAN-5050 (Horizontal Mounting)

A3PAN-5055 (Vertical Mounting)

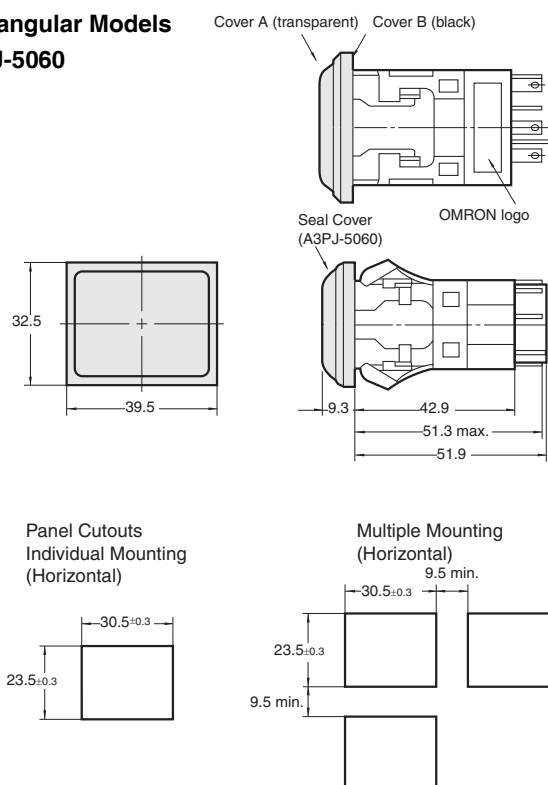


Note: Multiple vertical mounting is not possible.

Seal Cover Mounting Dimensions

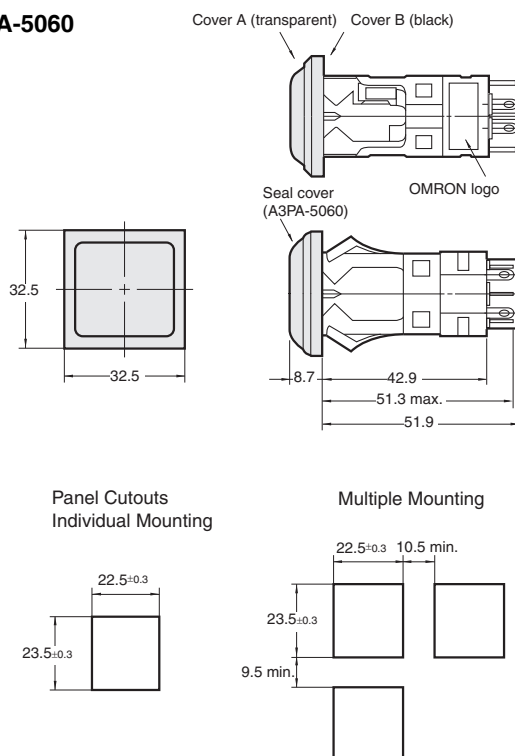
Rectangular Models

A3PJ-5060



Square Models

A3PA-5060



Note: 1. Recommended panel thickness: 1 to 5 mm
2. Unless otherwise specified, a tolerance of ± 0.4 mm applies to all dimensions.

Safety Precautions

Refer to *Safety Precautions for all Pushbutton Switches/Indicators*.

Caution

Do not apply a voltage higher than the maximum rated operating voltage between the lamp terminals, as there is a risk that LED will be damaged, and the Pushbutton will be ejected.



Precautions for Correct Use

1. Always make sure that the power is turned OFF before mounting, removing, or wiring the Switch, or performing maintenance. Electric shock or fire may occur.
2. After wiring the Switch, make sure that there is a suitable isolation distance.

Wiring

- Solder quickly and correctly at 350°C max and for 3 s or less. Wait for one minute after soldering before exerting any external force on the solder.

Operating Environment

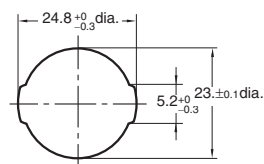
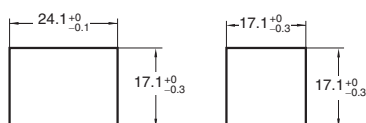
- Do not use in locations that are subject to dust, oil, or metal filings as these may penetrate the interior of the Switch and cause malfunction.

LED (for VDC)

- Check the terminal polarity when wiring.
- The rated voltage is shown on the plate on the back of the lighting unit, so be sure to use within the voltage shown.
- An LED current-limiting resistor is built in, so there is no need to mount an external resistor.

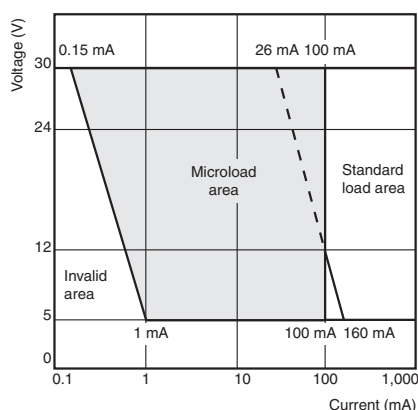
Character Plate (Character Film)

- If preparing the character plate separately, use a heat-resistant film with a thickness of 0.1 to 0.3 mm.



Using Microloads

- Using a standard load switch when a microload circuit is opened or closed may cause contact failure on the contacts. Use the switch within the operating range. (Refer to the diagram below.) Even when using microload models within the operating range shown below, if inrush current occurs when the contact is opened or closed, it may cause the contact surface to become rough, and so decrease life expectancy. Therefore, insert a contact protection circuit where necessary. The minimum applicable load is the N-level reference value. This value indicates the malfunction reference level for the reliability level of 60% ($\lambda 60$) (conforming to JIS C5003). The equation, $\lambda 60 = 0.5 \times 10^{-6}/\text{time}$ indicates that the estimated malfunction rate is less than 1/2,000,000 with a reliability level of 60%.



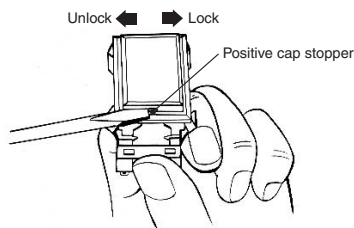
Others

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

Assembly/Disassembly

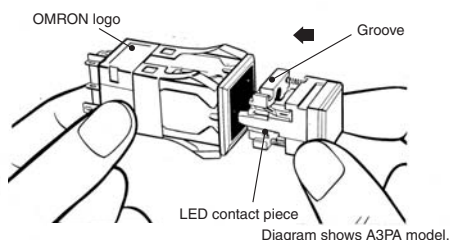
A3PJ/M2PJ (Rectangular Models), A3PA/M2PA (Square Models)

Locking/Unlocking Positive Cap Lock Mechanism



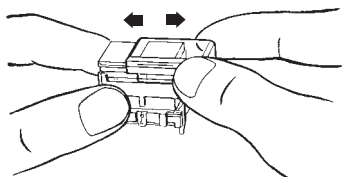
Mounting Pushbutton

- Be sure to mount the Pushbutton with the correct orientation. Align the groove on the Pushbutton, the projections in the Switch, and the LED contact piece before pushing the Pushbutton into the Switch.
- When dismounting the Pushbutton, use the Extractor (A3PJ-5080) for easy dismounting.



Removing/Mounting Cap

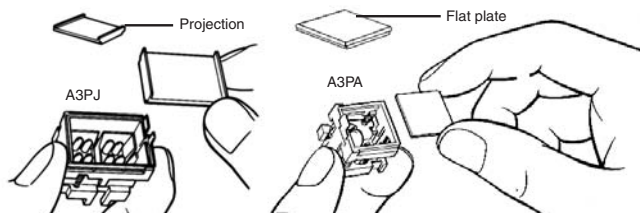
Insert the A3PA from the open side into the theft-prevention stopper.



Mounting Colored Plate

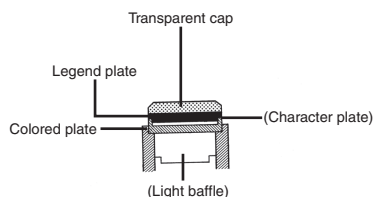
Place the colored plate on the plunger case with the dull side of the colored plate facing downward.

With A3PJ split-screen models, be sure that the projections on the upper surface of the colored plate face outward. For the A3PA, make sure that the flat plate is facing upwards.



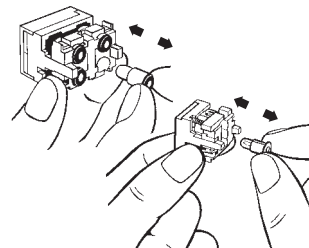
Mounting Character Plate (Character Frame) and Legend Plate

Mount the legend plate for the A3PJ under the layered surfaces and mount the cap, as shown below.



Mounting and Replacing LED Lamps

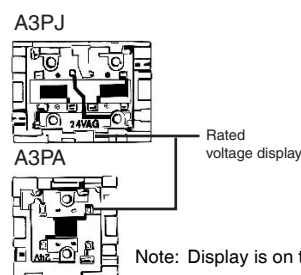
If using a square model with one LED lamp, insert the lamp in the center hole.



Note: Built-in LEDs cannot be replaced.

LED Rated Voltage Display (LED Models Only)

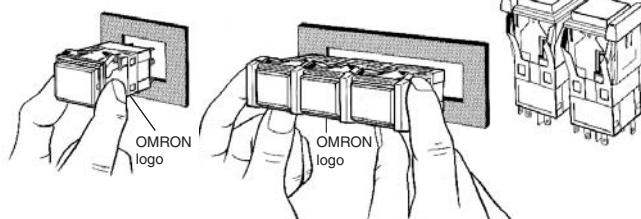
The LED rated voltage is shown between the built-in resistors on the back of the lighting unit. Use within a range of $\pm 5\%$.



Note: Display is on the back.

Mounting Switch onto Panel

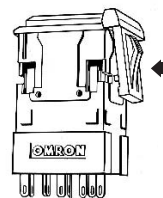
- **Individual Mounting and Barrier Mounting**
When mounting the Switch, push it into the panel cutout from the front of the mounting panel by holding it with the logo mark "OMRON" facing downward.
- **Multiple Barrier Mounting (A3PJ)**
When mounting a number of Switches in line on the panel, link the Switches with spacing barriers at both sides of this block of Switches and, pushing in on the mounting barriers at the side, insert the Switches into the panel cutout together.



Mounting Barriers

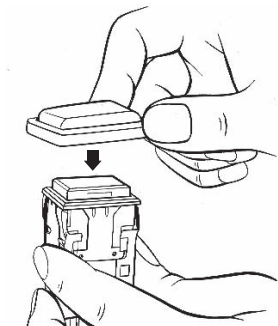
Mount each part by pushing it in the direction of the arrow shown in the corresponding illustration below.

Barrier mounting



Mounting Seal Cover

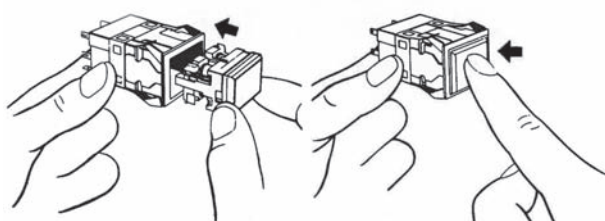
After mounting the seal cover onto the flange of the Switch, push the Switch into the panel cutout.

**Inscribing the Legend Plate**

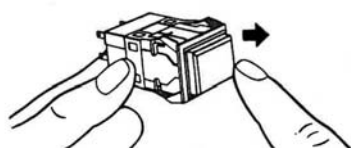
- Inscribe the legend plate to a depth of 0.5 mm max.
- The legend plate is made from polycarbonate resin. To coat the legend plate, use an alcohol-based coating such as melamine, phthalic acid, or acrylic.

Maintenance Lock

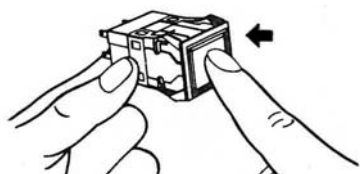
1. First, when you insert the transparent lens while pressing the center, the maintenance lock mechanism will be activated, and the Switch will not operate. Lamp replacement and other maintenance can be performed without turning OFF the power supply to devices and equipment. Use an insertion force of 4 kg.



2. Next, when you remove your finger from the Switch, the lock will be released.



3. The Switch will start to operate when the lighting unit is pressed the second time.



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