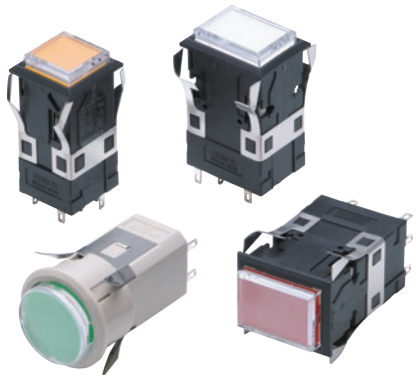
# A3P

CSM_A3P_DS_E_5_2

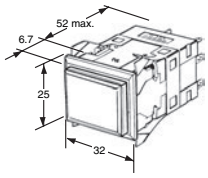
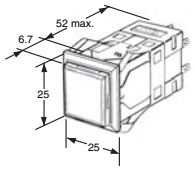
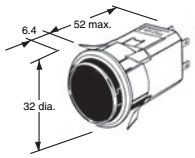
## Large Square-bodied Lighted Pushbutton Switches

- 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 24.

## 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 15. ■ Panel cutout: Refer to page 21. ■ Dimensions: Refer to page 18.
■ Accessories, replacements, and tools: Refer to pages 13 to 15. ■ Precautions for correct use: Refer to page 24.

## 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 information on combinations, refer to *Ordering Information* on pages 3 to 7.

(5) (6)
24E R ..... Single screen
Upper Lower

(1) (2) (3) (4)
A 3 P J - 90 B 1 1 - 24E RW ..... Horizontal 2-split screen

| | |
|---|---|
| R (Red) | Upper |
| W (White) | Lower |

### (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 12.

### (3) Screen Pattern

| Illumination-only models | |
|---|---|
| Symbol | Screen pattern |
| 1 | Single screen |
| 2 | 2-split 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.

- The available rectangular models are shown below. Select from among the individual products shown on page 10.

Vertical 2-split screen models
4-split screen models
Horizontal 3-split screen models
Vertical 3-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 8.
- "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 VDC |
| 24E | 24 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 10 for details.

**Incandescent Lamp-lighted Models**

| Symbol | Rated voltage |
|---|---|
| 06 | 6 VAC/VDC |
| 14 | 14 VAC/VDC |
| 28 | 28 VAC/VDC |

### (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.

**For Incandescent Lamp**

| Symbol | Color |
|---|---|
| No symbol | Red, orange, white, blue, green |

- Includes colored plate. Refer to page 11 for details.

### Number of LED Lamps

| Screen pattern | A3PJ | A3PA | A3PT |
|---|---|---|---|
| Single screen | Models with built-in LED | | 2 |
| Horizontal 2-split screen | | | --- |
| Vertical 2-split screen | 4 *2 | --- | --- |
| 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.

### Number of Incandescent Lamps

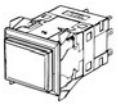
| Screen pattern | A3PJ | A3PA | A3PT |
|---|---|---|---|
| Single screen | 2 | 1 | 2 |
| Horizontal 2-split screen | 4(Low-power incandescent lamp) | 2 | --- |
| Vertical 2-split screen | | --- | --- |
| Horizontal 3-split screen | | --- | --- |
| 4-split screen | | --- | --- |

Note: Lamp positions for single-screen A3PJ (rectangular model).

# 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.)

Rectangular Models (Single Screen)  (Single Screen) (1)

A3PJ

### Standard Loads

| Output | Lighting | Contact type / Operation / Case color | 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 | |
| SPDT | LED | 5 VDC | A3PJ-90A11-05E(1) | A3PJ-90A12-05E(1) | A3PJ-90B11-05E(1) | A3PJ-90B12-05E(1) | R O G W |
| | | 12 VDC | A3PJ-90A11-12E(1) | A3PJ-90A12-12E(1) | A3PJ-90B11-12E(1) | A3PJ-90B12-12E(1) | |
| | | 24 VDC | A3PJ-90A11-24E(1) | A3PJ-90A12-24E(1) | A3PJ-90B11-24E(1) | A3PJ-90B12-24E(1) | |
| | Chameleon | 12 VDC | A3PJ-90AG1-12EK | --- | A3PJ-90BG1-12EK | A3PJ-90BG2-12EK | *1 |
| | | 24 VDC | A3PJ-90AG1-24EK | A3PJ-90AG2-24EK | A3PJ-90BG1-24EK | A3PJ-90BG2-24EK | |
| | Incandescent lamp | 6 VDC/VAC | A3PJ-90A11-06 | A3PJ-90A12-06 | A3PJ-90B11-06 | A3PJ-90B12-06 | *2 |
| | | 14 VDC/VAC | A3PJ-90A11-14 | A3PJ-90A12-14 | A3PJ-90B11-14 | A3PJ-90B12-14 | |
| | | 28 VDC/VAC | A3PJ-90A11-28 | A3PJ-90A12-28 | A3PJ-90B11-28 | A3PJ-90B12-28 | |
| DPDT | LED | 5 VDC | A3PJ-90C11-05E(1) | A3PJ-90C12-05E(1) | A3PJ-90D11-05E(1) | A3PJ-90D12-05E(1) | R O G W |
| | | 12 VDC | A3PJ-90C11-12E(1) | A3PJ-90C12-12E(1) | A3PJ-90D11-12E(1) | A3PJ-90D12-12E(1) | |
| | | 24 VDC | A3PJ-90C11-24E(1) | A3PJ-90C12-24E(1) | A3PJ-90D11-24E(1) | A3PJ-90D12-24E(1) | |
| | Chameleon | 12 VDC | A3PJ-90CG1-12EK | A3PJ-90CG2-12EK | A3PJ-90DG1-12EK | --- | *1 |
| | | 24 VDC | A3PJ-90CG1-24EK | A3PJ-90CG2-24EK | A3PJ-90DG1-24EK | A3PJ-90DG2-24EK | |
| | Incandescent lamp | 6 VDC/VAC | A3PJ-90C11-06 | A3PJ-90C12-06 | A3PJ-90D11-06 | A3PJ-90D12-06 | *2 |
| | | 14 VDC/VAC | A3PJ-90C11-14 | A3PJ-90C12-14 | A3PJ-90D11-14 | A3PJ-90D12-14 | |
| | | 28 VDC/VAC | A3PJ-90C11-28 | A3PJ-90C12-28 | A3PJ-90D11-28 | A3PJ-90D12-28 | |

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

*1. You can change the screen colors of chameleon models between red, green, and orange, by changing the terminal wiring. Refer to page 20 for details.
*2. Incandescent lamps are supplied with colored plates (white, red, green, blue, and orange) and legend plates (milk-white and transparent). Use the appropriate combination.

### Microloads

| Output | Lighting | Contact type / Operation / Case color | Microload (125 VAC, 0.1 A; 30 VDC, 0.1 A) | | Pushbutton color symbol |
|---|---|---|---|---|---|
| | | | Momentary operation (Self-resetting) | | |
| | | | Black | Light gray | |
| SPDT | LED | 5 VDC | A3PJ-90E11-05E(1) | A3PJ-90E12-05E(1) | R O G W |
| | | 12 VDC | A3PJ-90E11-12E(1) | A3PJ-90E12-12E(1) | |
| | | 24 VDC | A3PJ-90E11-24E(1) | A3PJ-90E12-24E(1) | |
| | Chameleon | 12 VDC | A3PJ-90EG1-12EK | --- | *1 |
| | | 24 VDC | A3PJ-90EG1-24EK | A3PJ-90EG2-24EK | |
| | Incandescent lamp | 6 VDC/VAC | A3PJ-90E11-06 | A3PJ-90E12-06 | *2 |
| | | 14 VDC/VAC | A3PJ-90E11-14 | --- | |
| | | 28 VDC/VAC | A3PJ-90E11-28 | A3PJ-90E12-28 | |
| DPDT | LED | 5 VDC | A3PJ-90G11-05E(1) | --- | R O G W |
| | | 12 VDC | A3PJ-90G11-12E(1) | A3PJ-90G12-12E(1) | |
| | | 24 VDC | A3PJ-90G11-24E(1) | A3PJ-90G12-24E(1) | |
| | Chameleon | 12 VDC | A3PJ-90GG1-12EK | --- | *1 |
| | | 24 VDC | A3PJ-90GG1-24EK | | |
| | Incandescent lamp | 6 VDC/VAC | A3PJ-90G11-06 | A3PJ-90G12-06 | *2 |
| | | 14 VDC/VAC | A3PJ-90G11-14 | A3PJ-90G12-14 | |
| | | 28 VDC/VAC | A3PJ-90G11-28 | A3PJ-90G12-28 | |

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

*1. You can change the screen colors of chameleon models between red, green, and orange, by changing the terminal wiring. Refer to page 20 for details.
*2. Incandescent lamps are supplied with colored plates (white, red, green, blue, and orange) and legend plates (milk-white and transparent). Use the appropriate combination.

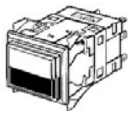
Individual models: Refer to pages 9 to 12.
(The Pushbutton, Lamp, and Switch can be ordered separately.)

■ Specifications: Refer to page 15. ■ Dimensions: Refer to page 18.
■ Accessories: Refer to pages 13 to 15.

## 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.)

Rectangular Models (Horizontal 2-split Screen)



A3PJ (Horizontal 2-split Screen) (1) (2)

### Standard Loads

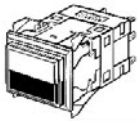
| Output | Lighting | Contact type / Operation / Case color | Standard load (250 VAC, 3 A; 30 VDC, 4 A) | | | | Pushbutton color symbol |
|---|---|---|---|---|---|---|---|
| | | | Momentary operation (Self-resetting) | | Alternate operation (Self-holding) | | |
| | | | Black | Light gray | Black | Light gray | |
| SPDT | LED | 5 VDC | A3PJ-90A21-24E(1)(2) | A3PJ-90A22-24E(1)(2) | A3PJ-90B21-24E(1)(2) | A3PJ-90B22-24E(1)(2) | R O G W |
| | Incandescent lamp | 6 VDC/VAC | A3PJ-90A21-06 | A3PJ-90A22-06 | A3PJ-90B21-06 | A3PJ-90B22-06 | * |
| | | 14 VDC/VAC | A3PJ-90A21-14 | A3PJ-90A22-14 | A3PJ-90B21-14 | A3PJ-90B22-14 | |
| | | 28 VDC/VAC | A3PJ-90A21-28 | A3PJ-90A22-28 | A3PJ-90B21-28 | A3PJ-90B22-28 | |
| DPDT | LED | 24 VDC | A3PJ-90C21-24E(1)(2) | A3PJ-90C22-24E(1)(2) | A3PJ-90D21-24E(1)(2) | A3PJ-90D22-24E(1)(2) | R O G W |
| | Incandescent lamp | 6 VDC/VAC | A3PJ-90C21-06 | A3PJ-90C22-06 | A3PJ-90D21-06 | A3PJ-90D22-06 | * |
| | | 14 VDC/VAC | A3PJ-90C21-14 | A3PJ-90C22-14 | A3PJ-90D21-14 | A3PJ-90D22-14 | |
| | | 28 VDC/VAC | A3PJ-90C21-28 | A3PJ-90C22-28 | A3PJ-90D21-28 | A3PJ-90D22-28 | |

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

Example: (1) Red, (2) White — Upper A3PJ-90D21-24E[R][W] Lower — Red White

* Incandescent lamps are supplied with colored plates (white, red, green, blue, and orange) and legend plates (milky white and transparent). Use the appropriate combination.

Rectangular Models (Horizontal 2-split Screen)



A3PJ (Horizontal 2-split Screen) (1) (2)

### Microloads

| Output | Lighting | Contact type / Operation / Case color | Microload (125 VAC, 0.1 A; 30 VDC, 0.1 A) | | Pushbutton color symbol |
|---|---|---|---|---|---|
| | | | Momentary operation (Self-resetting) | | |
| | | | Black | Light gray | |
| SPDT | LED | 5 VDC | A3PJ-90E21-24E(1)(2) | A3PJ-90E22-24E(1)(2) | R O G W |
| | Incandescent lamp | 6 VDC/VAC | A3PJ-90E21-06 | A3PJ-90E22-06 | * |
| | | 14 VDC/VAC | A3PJ-90E21-14 | A3PJ-90E22-14 | |
| | | 28 VDC/VAC | A3PJ-90E21-28 | A3PJ-90E22-28 | |
| DPDT | LED | 5 VDC | A3PJ-90G21-24E(1)(2) | A3PJ-90G22-24E(1)(2) | R O G W |
| | Incandescent lamp | 6 VDC/VAC | A3PJ-90G21-06 | A3PJ-90G22-06 | * |
| | | 14 VDC/VAC | A3PJ-90G21-14 | A3PJ-90G22-14 | |
| | | 28 VDC/VAC | A3PJ-90G21-28 | A3PJ-90G22-28 | |

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

Example: (1) Red, (2) White — Upper A3PJ-90D21-24E[R][W] Lower — Red White

* Incandescent lamps are supplied with colored plates (white, red, green, blue, and orange) and legend plates (milky-white and transparent). Use the appropriate combination.

Individual models: Refer to pages 9 to 12.
(The Pushbutton, Lamp, and Switch can be ordered separately.)

■ Specifications: Refer to page 15. ■ Dimensions: Refer to page 18.
■ Accessories: Refer to pages 13 to 15.

# 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.)

Square Models (Single Screen) A3PA (Single Screen) (1)

### Standard Loads

| Output | Lighting | Case color | 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 | |
| SPDT | LED | 5 VDC | | A3PA-90A11-05E(1) | A3PA-90A12-05E(1) | A3PA-90B11-05E(1) | A3PA-90B12-05E(1) | R O G W |
| | | 12 VDC | | A3PA-90A11-12E(1) | A3PA-90A12-12E(1) | A3PA-90B11-12E(1) | A3PA-90B12-12E(1) | |
| | | 24 VDC | | A3PA-90A11-24E(1) | A3PA-90A12-24E(1) | A3PA-90B11-24E(1) | A3PA-90B12-24E(1) | |
| | Chameleon | 12 VDC | | A3PA-90AG1-12EK | A3PA-90AG2-12EK | A3PA-90BG1-12EK | A3PA-90BG2-12EK | *1 |
| | | 24 VDC | | A3PA-90AG1-24EK | A3PA-90AG2-24EK | A3PA-90BG1-24EK | A3PA-90BG2-24EK | |
| | Incandescent lamp | 6 VDC/VAC | | A3PA-90A11-06 | A3PA-90A12-06 | A3PA-90B11-06 | A3PA-90B12-06 | *2 |
| | | 14 VDC/VAC | | A3PA-90A11-14 | A3PA-90A12-14 | A3PA-90B11-14 | A3PA-90B12-14 | |
| | | 28 VDC/VAC | | A3PA-90A11-28 | A3PA-90A12-28 | A3PA-90B11-28 | A3PA-90B12-28 | |
| DPDT | LED | 5 VDC | | A3PA-90C11-05E(1) | A3PA-90C12-05E(1) | A3PA-90D11-05E(1) | A3PA-90D12-05E(1) | R O G W |
| | | 12 VDC | | A3PA-90C11-12E(1) | A3PA-90C12-12E(1) | A3PA-90D11-12E(1) | A3PA-90D12-12E(1) | |
| | | 24 VDC | | A3PA-90C11-24E(1) | A3PA-90C12-24E(1) | A3PA-90D11-24E(1) | A3PA-90D12-24E(1) | |
| | Chameleon | 12 VDC | | A3PA-90CG1-12EK | A3PA-90CG2-12EK | A3PA-90DG1-12EK | A3PA-90DG2-12EK | *1 |
| | | 24 VDC | | A3PA-90CG1-24EK | A3PA-90CG2-24EK | A3PA-90DG1-24EK | A3PA-90DG2-24EK | |
| | Incandescent lamp | 6 VDC/VAC | | A3PA-90C11-06 | A3PA-90C12-06 | A3PA-90D11-06 | A3PA-90D12-06 | *2 |
| | | 14 VDC/VAC | | A3PA-90C11-14 | A3PA-90C12-14 | A3PA-90D11-14 | A3PA-90D12-14 | |
| | | 28 VDC/VAC | | A3PA-90C11-28 | A3PA-90C12-28 | A3PA-90D11-28 | A3PA-90D12-28 | |

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

Example: Red A3PA-90A11-24E R

*1. You can change the screen colors of chameleon models between red, green, and orange, by changing the terminal wiring. Refer to page 20 for details.
*2. Incandescent lamps are supplied with colored plates (white, red, green, blue, and orange) and legend plates (milk-white and transparent). Use the appropriate combination.

### Microloads

| Output | Lighting | Case color | Contact type / Operation | Microload (125 VAC, 0.1 A; 30 VDC, 0.1 A) | | Pushbutton color symbol |
|---|---|---|---|---|---|---|
| | | | | Momentary operation (Self-resetting) | | |
| | | | | Black | Light gray | |
| SPDT | LED | 5 VDC | | A3PA-90E11-05E(1) | A3PA-90E12-05E(1) | R O G W |
| | | 12 VDC | | A3PA-90E11-12E(1) | A3PA-90E12-12E(1) | |
| | | 24 VDC | | A3PA-90E11-24E(1) | A3PA-90E12-24E(1) | |
| | Chameleon | 12 VDC | | A3PA-90EG1-12EK | --- | *1 |
| | | 24 VDC | | A3PA-90EG1-24EK | A3PA-90EG2-24EK | |
| | Incandescent lamp | 6 VDC/VAC | | A3PA-90E11-06 | A3PA-90E12-06 | *2 |
| | | 14 VDC/VAC | | --- | A3PA-90E12-14 | |
| | | 28 VDC/VAC | | A3PA-90E11-28 | A3PA-90E12-28 | |
| DPDT | LED | 5 VDC | | --- | --- | R O G W |
| | | 12 VDC | | A3PA-90G11-12E(1) | A3PA-90G12-12E(1) | |
| | | 24 VDC | | A3PA-90G11-24E(1) | A3PA-90G12-24E(1) | |
| | Chameleon | 12 VDC | | A3PA-90GG1-12EK | --- | *1 |
| | | 24 VDC | | A3PA-90GG1-24EK | | |
| | Incandescent lamp | 6 VDC/VAC | | A3PA-90G11-06 | A3PA-90G12-06 | *2 |
| | | 14 VDC/VAC | | --- | --- | |
| | | 28 VDC/VAC | | A3PA-90G11-28 | A3PA-90G12-28 | |

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

Example: Red A3PA-90E11-24E R

*1. You can change the screen colors of chameleon models between red, green, and orange, by changing the terminal wiring. Refer to page 20 for details.
*2. Incandescent lamps are supplied with colored plates (white, red, green, blue, and orange) and legend plates (milk-white and transparent). Use the appropriate combination.

Individual models: Refer to pages 9 to 12.
(The Pushbutton, Lamp, and Switch can be ordered separately.)

■ Specifications: Refer to page 15. ■ Dimensions: Refer to page 18.
■ Accessories: Refer to pages 13 to 15.

# 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.)

Square Models (Horizontal 2-split Screen)

A3PA (Horizontal 2-split Screen) (1) (2)

### Standard Loads

| Output | Lighting | Contact type / Operation / Case color | 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 | |
| SPDT | LED | 24 VDC | A3PA-90A21-24E(1)(2) | A3PA-90A22-24E(1)(2) | A3PA-90B21-24E(1)(2) | A3PA-90B22-24E(1)(2) | R O G W |
| | Incandescent lamp | 6 VDC/VAC | A3PA-90A21-06 | A3PA-90A22-06 | A3PA-90B21-06 | A3PA-90B22-06 | * |
| | | 14 VDC/VAC | A3PA-90A21-14 | A3PA-90A22-14 | A3PA-90B21-14 | A3PA-90B22-14 | |
| | | 28 VDC/VAC | A3PA-90A21-28 | A3PA-90A22-28 | A3PA-90B21-28 | A3PA-90B22-28 | |
| DPDT | LED | 24 VDC | A3PA-90C21-24E(1)(2) | A3PA-90C22-24E(1)(2) | A3PA-90D21-24E(1)(2) | A3PA-90D22-24E(1)(2) | R O G W |
| | Incandescent lamp | 6 VDC/VAC | A3PA-90C21-06 | A3PA-90C22-06 | A3PA-90D21-06 | A3PA-90D22-06 | * |
| | | 14 VDC/VAC | A3PA-90C21-14 | A3PA-90C22-14 | A3PA-90D21-14 | A3PA-90D22-14 | |
| | | 28 VDC/VAC | A3PA-90C21-28 | A3PA-90C22-28 | A3PA-90D21-28 | A3PA-90D22-28 | |

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

Example: (1) Red / (2) White — Upper A3PA-90D21-24E R W, Lower Red White

* Incandescent lamps are supplied with colored plates (white, red, green, blue, and orange) and legend plates (milk-white and transparent). Use the appropriate combination.

Square Models (Horizontal 2-split Screen)

A3PA (Horizontal 2-split Screen) (1) (2)

### Microloads

| Output | Lighting | Contact type / Operation / Case color | Microload (125 VAC, 0.1 A; 30 VDC, 0.1 A) | | Pushbutton color symbol |
|---|---|---|---|---|---|
| | | | Momentary operation (Self-resetting) | | |
| | | | Black | Light gray | |
| SPDT | LED | 24 VDC | A3PA-90E21-24E(1)(2) | A3PA-90E22-24E(1)(2) | R O G W |
| | Incandescent lamp | 6 VDC/VAC | A3PA-90E21-06 | A3PA-90E22-06 | * |
| | | 14 VDC/VAC | A3PA-90E21-14 | A3PA-90E22-14 | |
| | | 28 VDC/VAC | A3PA-90E21-28 | A3PA-90E22-28 | |
| DPDT | LED | 24 VDC | A3PA-90G21-24E(1)(2) | A3PA-90G22-24E(1)(2) | R O G W |
| | Incandescent lamp | 6 VDC/VAC | A3PA-90G21-06 | A3PA-90G22-06 | * |
| | | 14 VDC/VAC | A3PA-90G21-14 | A3PA-90G22-14 | |
| | | 28 VDC/VAC | A3PA-90G21-28 | A3PA-90G22-28 | |

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

Example: (1) Red / (2) White — Upper A3PA-90D21-24E R W, Lower Red White

* Incandescent lamps are supplied with colored plates (white, red, green, blue, and orange) and legend plates (milk-white and transparent). Use the appropriate combination.

Individual models: Refer to pages 9 to 12.
(The Pushbutton, Lamp, and Switch can be ordered separately.)

■ Specifications: Refer to page 15. ■ Dimensions: Refer to page 18.
■ Accessories: Refer to pages 13 to 15.

## 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.

Round (Single Screen) A3PT (Single Screen) (1)

### Standard Loads

| Output | Lighting | Contact type / Operation / Case color | Standard load (250 VAC, 3 A; 30 VDC, 4 A) Momentary operation (Self-resetting) Light gray | Standard load (250 VAC, 3 A; 30 VDC, 4 A) Alternate operation (Self-holding) Light gray | Pushbutton color symbol |
|---|---|---|---|---|---|
| SPDT | LED | 24 VDC | A3PT-90A12-24C(1) | A3PT-90B12-24C(1) | R O G W |
| | Incandescent lamp | 6 VDC/VAC | A3PT-90A12-06 | A3PT-90B12-06 | * |
| | | 14 VDC/VAC | A3PT-90A12-14 | --- | |
| | | 28 VDC/VAC | A3PT-90A12-28 | A3PT-90B12-28 | |
| DPDT | LED | 24 VDC | A3PT-90C12-24C(1) | A3PT-90D12-24C(1) | R O G W |
| | Incandescent lamp | 6 VDC/VAC | A3PT-90C12-06 | A3PT-90D12-06 | * |
| | | 14 VDC/VAC | A3PT-90C12-14 | A3PT-90D12-14 | |
| | | 28 VDC/VAC | A3PT-90C12-28 | A3PT-90D12-28 | |

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]

* Incandescent lamps are supplied with a colored plates (white, red, green, blue, and orange). Use the appropriate combination. Models A3PT (round models), however, are not supplied with legend plates.

Round (Single Screen) A3PT (Single Screen) (1)

### Microloads

| Output | Lighting | Contact type / Operation / Case color | Microload (125 VAC, 0.1 A; 30 VDC, 0.1 A) Momentary operation (Self-resetting) Light gray | Pushbutton color symbol |
|---|---|---|---|---|
| SPDT | LED | 24 VDC | A3PT-90E12-24C(1) | R O G W |
| | Incandescent lamp | 28 VDC/VAC | A3PT-90E12-28 | * |
| DPDT | LED | 24 VDC | A3PT-90G12-24C(1) | G W |
| | Incandescent lamp | 28 VDC/VAC | A3PT-90G12-28 | * |

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

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

* Incandescent lamps are supplied with a colored plates (white, red, green, blue, and orange). Use the appropriate combination. Models A3PT (round models), however, are not supplied with legend plates.

Individual models: Refer to pages 9 to 12.
(The Pushbutton, Lamp, and Switch can be ordered separately.)

■ Specifications: Refer to page 15. ■ Dimensions: Refer to page 18.
■ Accessories: Refer to pages 13 to 15.

## Ordering Information

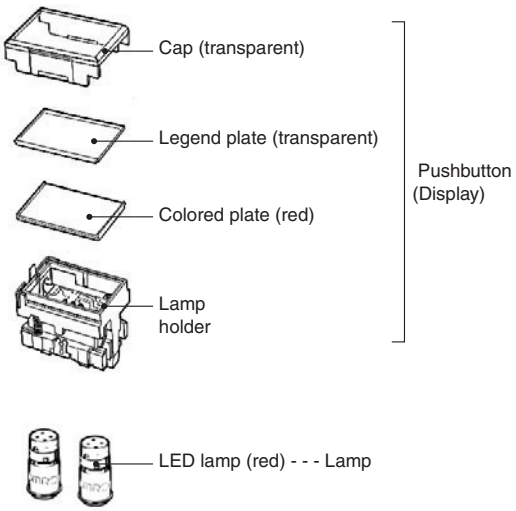
### Illumination-only and Colored-illumination LED Models

"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

Not lit
Red

Lit
Red

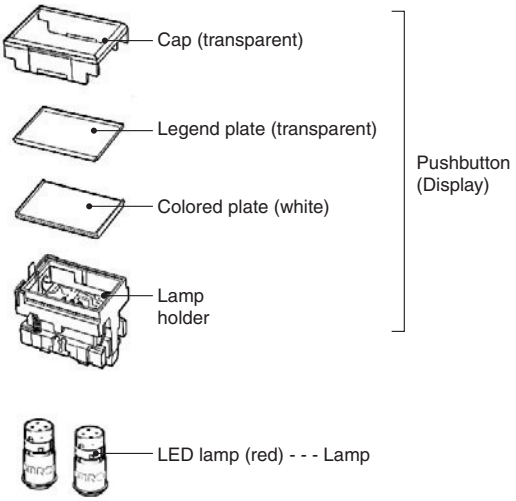



"Colored illumination" describes LED models for which the screen color is white when the LED is not lit and changes to the color of the LED lamp when the LED is lit.

Example: Red LED

Not lit
White

Lit
Red




**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 10. 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 12. Number of necessary LED lamps (standard)<br>A3PJ (rectangular): 4<br>A3PA (square): 2<br>A3PT (round): 2 | Select from the Switches on page 12. |

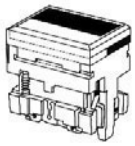
## Ordering Information

**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/Chameleon Models
(LED is built into the Pushbutton.)

**Pushbutton**

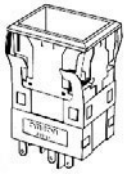
Round (A3PT) models not available.



· For Pushbutton Switch
A3P□-5□□□-□□E

**Switch ***

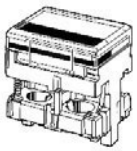
Round (A3PT) models not available.



· For Pushbutton Switch
A3P□-7□□□-□

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

**Pushbutton**

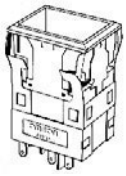


· For Pushbutton Switch
A3P□-502□

**Lamp (LED Lamp)*1**

SLL-□□E□

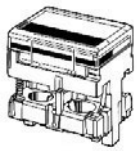
**Switch ***



· For Pushbutton Switch
A3P□-7□□□-□

### Incandescent Lamp-lighted Models
(Incandescent lamp and Pushbutton are separate.)

**Pushbutton**

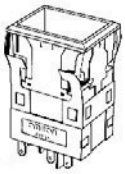


· For Pushbutton Switch
A3P□-501□

**Lamp (Incandescent Lamp)*2**

· Standard lamp
SLL-□□
· Low-power lamp
SLL-□□H

**Switch ***



· For Pushbutton Switch
A3P□-7□□□-□

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

*1. 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<br>Horizontal 3-split screen | | | |
| 4-split screen | | | |

*2. Number of necessary incandescent lamps.

| Screen pattern | A3PJ | A3PA | A3PT |
|---|---|---|---|
| Single screen | 2 | 1 | 2 |
| Horizontal 2-split screen | 4 (low-power incandescent lamp) | 2 | --- |
| Vertical 2-split screen | | | |
| Vertical 3-split screen<br>Horizontal 3-split screen | | | |
| 4-split screen | | | |

Ordering set combinations: Refer to page 3 to 7.

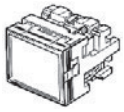
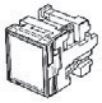
■ Specifications: Refer to page 15. ■ Dimensions: Refer to page 18.
■ Accessories: Refer to pages 13 to 15.

## 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.

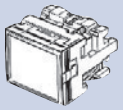
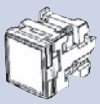
Pushbutton

**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.<br>Examples of voltages used:<br>5V=0 5 E<br>12V=1 2 E<br>24V=2 4 E<br>Horizontal 2-split screen models support only 24V.<br>• For the color of the shaded part, select the model according to the colors given at the top of the table. |
| | Horizontal 2-split screen | White | **A3PJ-5711 -□□E** | **A3PJ-5712 -□□E** | **A3PJ-5713 -□□E** | **A3PJ-5716 -□□E** | |
| | | Red | **A3PJ-5721 -□□E** | **A3PJ-5722 -□□E** | **A3PJ-5723 -□□E** | **A3PJ-5726 -□□E** | |
| | | Green | **A3PJ-5731 -□□E** | **A3PJ-5732 -□□E** | **A3PJ-5733 -□□E** | **A3PJ-5736 -□□E** | |
| | | Orange | **A3PJ-5741 -□□E** | **A3PJ-5742 -□□E** | **A3PJ-5743 -□□E** | **A3PJ-5746 -□□E** | |
| Square models  | Single screen | | **A3PA-5701 -□□E** | **A3PA-5702 -□□E** | **A3PA-5703 -□□E** | **A3PA-5706 -□□E** | |
| | Horizontal 2-split screen | White | **A3PA-5711 -□□E** | **A3PA-5712 -□□E** | **A3PA-5713 -□□E** | **A3PA-5716 -□□E** | |
| | | Red | **A3PA-5721 -□□E** | **A3PA-5722 -□□E** | **A3PA-5723 -□□E** | **A3PA-5726 -□□E** | |
| | | Green | **A3PA-5731 -□□E** | **A3PA-5732 -□□E** | **A3PA-5733 -□□E** | **A3PA-5736 -□□E** | |
| | | Orange | **A3PA-5741 -□□E** | **A3PA-5742 -□□E** | **A3PA-5743 -□□E** | **A3PA-5746 -□□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:<br>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.<br>• 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).<br>• The number of colored plates included for each model are shown in the following table. |
| 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** | --- | | --- | | |

| Screen pattern | White | Red | Green | Orange |
|---|---|---|---|---|
| Single screen | 1 | 1 | 1 | 1 |
| Horizontal 2-split screens Vertical 2-split screens | 2 | 1 | 1 | 1 |
| Horizontal 3-split screens Vertical 3-split screens | 3 | 2 | 2 | 2 |
| 4-split screen | 4 | 1 | 1 | 1 |

Ordering set combinations: Refer to page 3 to 7.

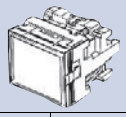
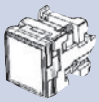
■ Specifications: Refer to page 15. ■ Dimensions: Refer to page 18.
■ Accessories: Refer to pages 13 to 15.

## 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.

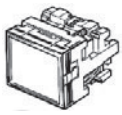
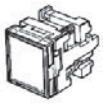
Pushbutton

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

| Appearance | Rectangular models  | | Square models  | | Round models | | Selection precautions |
|---|---|---|---|---|---|---|---|
| Screen pattern | Screen | Model | Screen | Model | Screen | Model | |
| Single screen | | **A3PJ-5011** | | **A3PA-5011** | | **A3PT-5011** * | • Parts included: Colored plates (white, red, green, orange, and blue), legend plates (transparent and milk white), and a light baffle (split-screen models only) are supplied.<br>* A3PT (round) models do not contain a legend plate.<br>• The number of colored plates included is shown in the following table. |
| Horizontal 2-split screen | | **A3PJ-5012** | | **A3PA-5012** | --- | | |
| Vertical 2-split screen | | **A3PJ-5013** | --- | | --- | | |
| Horizontal 3-split screen | | **A3PJ-5014** | --- | | --- | | |
| Vertical 3-split screen | | **A3PJ-5015** | --- | | --- | | |
| 4-split screen | | **A3PJ-5016** | --- | | --- | | |

| Screen pattern | White | Red | Green | Orange | Blue |
|---|---|---|---|---|---|
| Single screen | 1 | 1 | 1 | 1 | 1 |
| Horizontal 2-split screens Vertical 2-split screens | 1 | 1 | 1 | 1 | 1 |
| Horizontal 3-split screens Vertical 3-split screens | 2 | 2 | 2 | 2 | 2 |
| 4-split screen | 2 | 2 | 2 | 2 | 2 |

### Chameleon Models (with Built-in LED)

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

Ordering set combinations: Refer to page 3 to 7.

■ Specifications: Refer to page 15. ■ Dimensions: Refer to page 18.
■ Accessories: Refer to pages 13 to 15.

## 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, refer to page 25.)

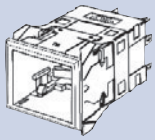
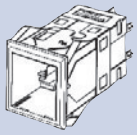
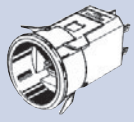
### LED Lamp

| Voltage / Color | 5 VDC Model (DC only) | 12 VDC Model (DC only) | 24 VDC Model (DC only) | Applicable cap (color) (colored plate) | Selection precautions |
|---|---|---|---|---|---|
| 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 | |

### Incandescent Lamp

| Lamp type / Voltage | Standard lamp | Low-power lamp | Selection precautions |
|---|---|---|---|
| 5 VAC/VDC | SLL-06 | SLL-06H | • In the standard setup for A3PJ models, 2 lamps are used with single screen models, and 4 lamps are used with split-screen models. If 3 or 4 lamps are lit continuously, use low-power lamps.<br>• In the standard setup for A3PA models, 1 lamp is used with single screen models, and 2 lamps are used with split-screen models.<br>• In the standard setup for A3PT models, 2 lamps are used. |
| 12 VAC/VDC | SLL-14 | SLL-14H | |
| 24 VAC/VDC | SLL-28 | SLL-28H | |

Switch (common to both incandescent lamp-lighted models and LED models)

| | Contact type | Switch Number of outputs | Operation | Appearance: Rectangular models | Square models | Round models | Selection precautions |
|---|---|---|---|---|---|---|---|
| | | | |  |  |  | |
| | | | | Model | Model | Model | |
| Standard load | Silver alloy contact | 1 | 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.<br>• 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□□.<br>• 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 | |
| | | 2 | Momentary operation | A3PJ-7030-1 | A3PA-7030-1 | A3PT-7030-2 | |
| | | | Alternate operation | A3PJ-7040-1 | A3PA-7040-1 | A3PT-7040-2 | |
| | | 3 | Momentary operation | A3PJ-7150-1 | --- | --- | |
| | | | Alternate operation | A3PJ-7160-1 | --- | --- | |
| Microload | Gold alloy contact | 1 | Momentary operation | A3PJ-7050-1 | A3PA-7050-1 | A3PT-7050-2 | |
| | | | Alternate operation | A3PJ-7060-1 | A3PA-7060-1 | A3PT-7060-2 | |
| | | 2 | Momentary operation | A3PJ-7070-1 | A3PA-7070-1 | A3PT-7070-2 | |
| | | | Alternate operation | A3PJ-7080-1 | A3PA-7080-1 | A3PT-7080-2 | |
| | | 3 | Momentary operation | A3PJ-7170-1 | --- | --- | |
| | | | Alternate operation | A3PJ-7180-1 | --- | --- | |

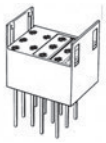
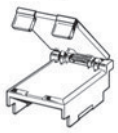
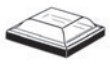
Ordering set combinations: Refer to page 3 to 7.

■ Specifications: Refer to page 15. ■ Dimensions: Refer to page 18.
■ Accessories: Refer to pages 13 to 15.

## 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. |
| | | 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.<br>• Intermediate barrier × 1.<br>• Edge barriers × 1 pair (2 Units).<br>• Mount short barriers horizontally.<br>• Mount long barriers vertically.<br>• For details on mounting, refer to page 25. |
| | | | 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.<br>• Cannot be used with seal cover.<br>• Can be used with barrier.<br>• Use horizontal mounting guard for consecutive horizontal mounting, and use vertical mounting guard for consecutive vertical mounting. |
| |  | 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.<br>• For details on mounting, refer to page 25.<br>• Cap is manufactured from vinyl chloride. |
| 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. |

## Ordering Information

### Accessories

| Name | Appearances | Classification | | A3PJ | A3PA | Application precautions |
|---|---|---|---|---|---|---|
| Colored plate for incandescent lamp | | Single screen | White | **A3PJ-5101** | **A3PA-5101** | • Keep mounted at all times.<br>• Contact your OMRON representative for color changes or other specifications.<br>• For details on mounting, refer to page 25. |
| | | | Red | **A3PJ-5102** | **A3PA-5102** | |
| | | | Green | **A3PJ-5103** | **A3PA-5103** | |
| | | | Blue | **A3PJ-5104** | **A3PA-5104** | |
| | | | Yellow | **A3PJ-5105** | **A3PA-5105** | |
| | | | Orange | **A3PJ-5106** | **A3PA-5106** | |
| | | Horizontal 2-split screen | White | **A3PJ-5121** | **A3PA-5121** | |
| | | | Red | **A3PJ-5122** | **A3PA-5122** | |
| | | | Green | **A3PJ-5123** | **A3PA-5123** | |
| | | | Blue | **A3PJ-5124** | **A3PA-5124** | |
| | | | Yellow | **A3PJ-5125** | **A3PA-5125** | |
| | | | Orange | **A3PJ-5126** | **A3PA-5126** | |
| | | Vertical 2-split screen | White | **A3PJ-5131** | --- | |
| | | | Red | **A3PJ-5132** | --- | |
| | | | Green | **A3PJ-5133** | --- | |
| | | | Blue | **A3PJ-5134** | --- | |
| | | | Yellow | --- | --- | |
| | | | Orange | **A3PJ-5136** | --- | |
| | | 4-split screen | White | **A3PJ-5161** | --- | |
| | | | Red | **A3PJ-5162** | --- | |
| | | | Green | **A3PJ-5163** | --- | |
| | | | Blue | --- | --- | |
| | | | Yellow | **A3PJ-5165** | --- | |
| | | | Orange | **A3PJ-5166** | --- | |
| 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.<br>• Use in accordance with coloring of the built-in LED.<br>• For details on mounting, refer to page 25. |
| | | | 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** | --- | |
| | | | Green | **A3PJ-5333** | --- | |
| | | | Yellow | **A3PJ-5335** | --- | |
| | | | Orange | **A3PJ-5336** | --- | |
| | | 4-split screen | White | **A3PJ-5361** | --- | |
| | | | Red | **A3PJ-5362** | --- | |
| | | | Green | **A3PJ-5363** | --- | |
| | | | Yellow | **A3PJ-5365** | --- | |
| | | | 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.<br>• Used in LED lamp-lighted models. Cannot be used in LED-lighted models. |
| | | 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** | --- | |
| | | | Short axis | **A3PJ-4307** | --- | |
| | | 4-split screen | Long axis | **A3PJ-4304** | --- | |
| | | | Short axis | **A3PJ-4308** | --- | |
| Legend plate | | Transparent legend plate | | **A3PJ-5202** | **A3PA-5202** | • A transparent legend plate is mounted on the Pushbutton. |
| | | Milk-white legend plate | | **A3PJ-5201** | **A3PA-5201** | |
| Cap | | Transparent cap | | **A3PJ-5600** | **A3PA-5600** | --- |
| | | Crimp-processed transparent cap | | **A3PJ-5600-A** | **A3PA-5600-A** | • The surface is crimp-processed, so there is no reflection. |

# Ordering Information

### Tools

| Name | Appearance | Classification | Model | Application precautions |
|---|---|---|---|---|
| Extractor | | --- | **A3PJ-5080** | • Use to extract components when replacing the Pushbutton. |

# 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: Certification has been obtained for the Switch Unit.
For detailed information on individual products that have received certification, consult your supplier.

### CCC (GB14048.5)

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

## 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 ± 2°C
(2) Ambient humidity: 65 ± 5%RH
(3) Operating frequency: 20 times/min.

### Gold Alloy Contacts (for Microloads)

| | |
|---|---|
| **Rated voltage (V)** | 0.1 A at 30 VDC (resistive load);<br>0.1 A at 125 VAC (resistive load) |
| **Minimum applicable load** | 1 mA at 5 VDC |

## LED and Incandescent Lamp Ratings

### LED for LED-lighted Models

| Applied voltage | Model: Rated voltage | A3PJ/M2PJ Rated current: Single screen | A3PJ/M2PJ Rated current: 2-split screen | A3PA/M2PA Rated current: Single screen | A3PA/M2PA Rated current: 2-split screen |
|---|---|---|---|---|---|
| **5 VDC±5%** | **5 VDC** | 80 mA | --- | 80 mA | --- |
| **12 VDC±5%** | **12 VDC** | 40 mA | --- | 40 mA | --- |
| **24 VDC±5%** | **24 VDC** | 20 mA | 15 mA × 2 | 20 mA | 13 mA × 2 |

### LED for Chameleon Models

| Applied voltage | Rated voltage | Rated current: Green | Rated current: Red |
|---|---|---|---|
| 12 VDC±5% | 12 VDC | 26 mA | 20 mA |
| 24 VDC±5% | 24 VDC | 13 mA | 10 mA |

### Incandescent Lamp

| Item: Applied voltage | Item: Rated voltage | Standard lamp: Rated current | Standard lamp: Model | Low-power lamp: Rated current | Low-power lamp: Model |
|---|---|---|---|---|---|
| **5 VDC** | **6 V** | 200 mA | SLL-06 | 100 mA | SLL-06H |
| **12 VDC** | **14 V** | 80 mA | SLL-14 | 40 mA | SLL-14H |
| **24 VDC** | **28 V** | 40 mA | SLL-28 | 25 mA | SLL-28H |

### LED Lamp (for LED Lamp-lighted Models)

| Type | Applied voltage | Rated voltage | Rated current | Model |
|---|---|---|---|---|
| DC only | 5 VDC±5% | 5 VDC | 30 mA | SLL-05E□ |
| | 12 VDC±5% | 12 VDC | 15 mA | SLL-12E□ |
| | 24 VDC±5% | 24 VDC | 12.5 mA | SLL-24E□ |

## 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/s² max. |
| | **Malfunction** | 200 m/s² max. (1 ms max.) |
| **Life expectancy** | **Mechanical** | Momentary operation models: 1,000,000 operations min.<br>Alternate operation models: 200,000 operations min.<br>(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)<br>Incandescent lamp-lighted models: −10°C to 50°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 incandescent lamp or LED lamp mounted.

# Specifications

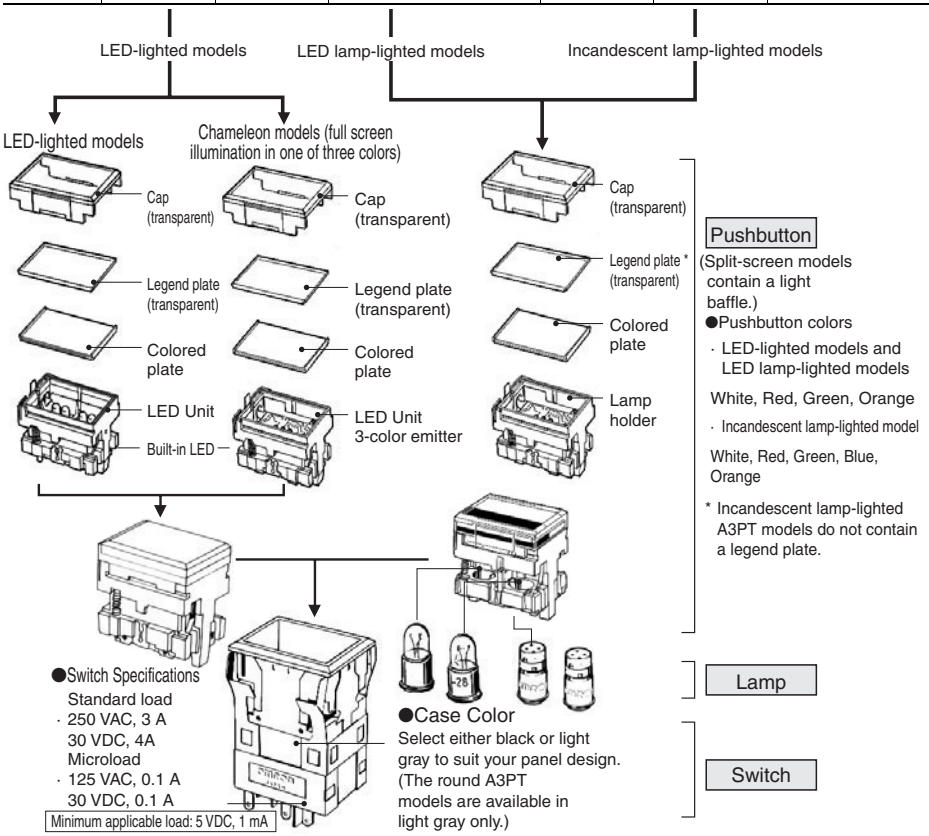
## Operating Characteristics

| 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.) | | | Incandescent lamp-lighted models (Incandescent lamp is not built-in.) | | |
|---|---|---|---|---|---|---|---|---|
| Models | A3PJ | A3PA | A3PJ | A3PA | A3PT | A3PJ | A3PA | A3PT |
| Screen patterns | Single screen<br>Horizontal 2-split screen<br>Chameleon (3-color) | Single screen<br>Horizontal 2-split screen<br>Chameleon (3-color) | Single screen<br>Vertical 3-split screen<br>Horizontal 2-split screen<br>Horizontal 3-split screen<br>Vertical 2-split screen<br>4-split screen | Single screen<br>Horizontal 2-split screen | Single screen | Single screen<br>Vertical 3-split screen<br>Horizontal 2-split screen<br>Horizontal 3-split screen<br>Vertical 2-split screen<br>4-split screen | Single screen<br>Horizontal 2-split screen | Single screen |

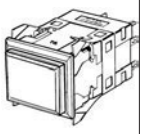


## Nomenclature

### A3P Lighting Method Diagram

The following diagram shows the Switches with the OMRON mark facing down.

**A3PJ (rectangular)**



- LED models
  - LED-lighted models
    - Single screen models
    - Horizontal 2-split screen models
    - • As a set: See page 3.
    - • Individually: See page 9.
  - LED lamp-lighted models
    - Single screen models
    - Horizontal 2-split screen models
    - Vertical 2-split screen models
    - Vertical 3-split screen models
    - Horizontal 3-split screen models
    - 4-split screen
    - • Individually: See page 9. (Not available as a set.)
  - Chameleon models
    - Single screen models
    - (Full screen illumination in one of three colors)
    - • As a set: See page 3.
    - • Individually: See page 9.
- Incandescent lamplighted models
  - Single screen models
  - Horizontal 2-split screen models
  - Vertical 2-split screen models*
  - Vertical 3-split screen models*
  - Horizontal 3-split screen models*
  - 4-split screen models*
  - • As a set: See page 3.
  - • Individually: See page 9.
  - *Models indicated with an asterisk are only available individually.

**A3PA (square)**

- LED models
  - LED-lighted models
    - Single screen models
    - Horizontal 2-split screen models
    - • As a set: See page 5.
    - • Individually: See page 9.
  - LED lamp-lighted models
    - Single screen models
    - Horizontal 2-split screen models
    - • Individually: See page 9. (Not available as a set.)
  - Chameleon models
    - Single screen models
    - • As a set: See page 5.
    - • Individually: See page 9.
- Incandescent lamplighted models
  - Single screen models
  - Horizontal 2-split screen models
  - • As a set: See page 5.
  - • Individually: See page 9.

**A3PT (round)**

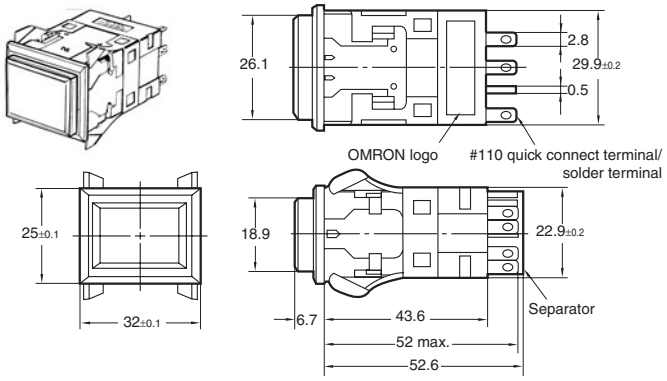
- LED models
  - LED lamp-lighted models
    - Single screen models
    - • As a set: See page 7.
    - • Individually: See page 9.
- Incandescent lamplighted models
  - Single screen models
  - • As a set: See page 7.
  - • Individually: See page 9.

## Dimensions

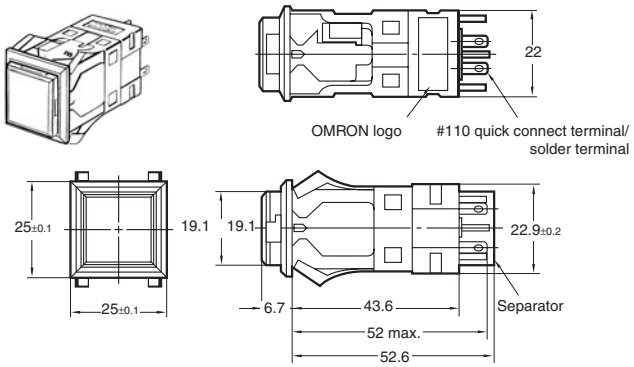
The Dimension shows 2-switch outputs.

(Unit: mm)

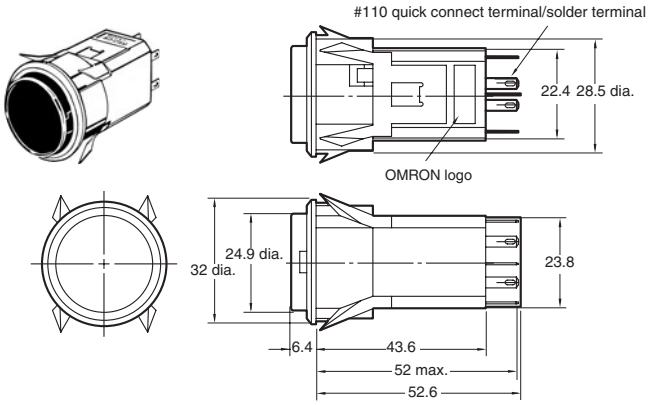
### A3PJ (Rectangular) Models




### A3PA (Square) Models




### A3PT (Round) Models




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

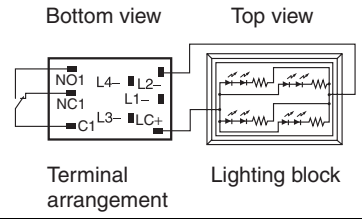
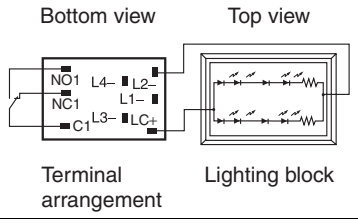
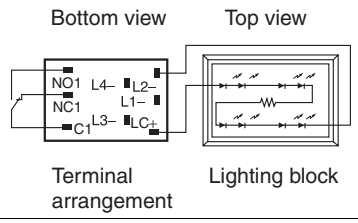
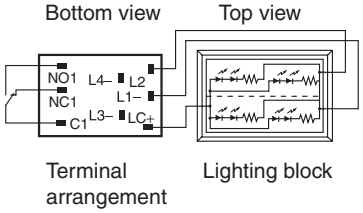
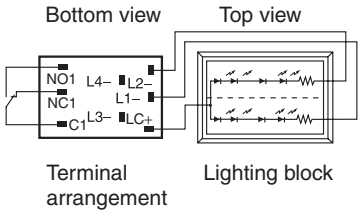
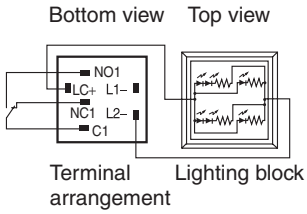
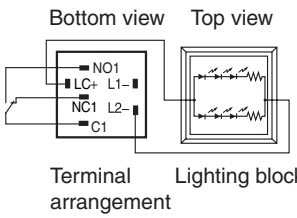
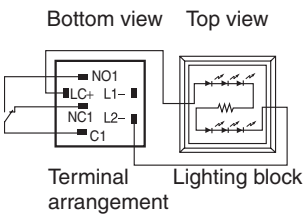
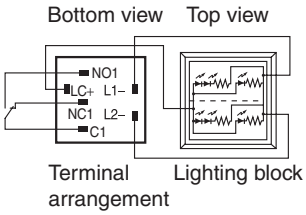
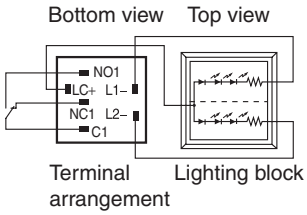
## Dimensions

(Unit: mm)

### Terminal connections

#### LED-lighted Models

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

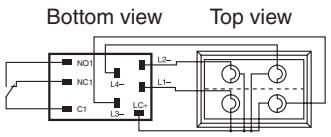
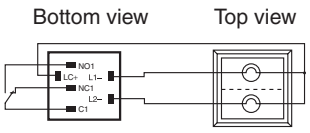
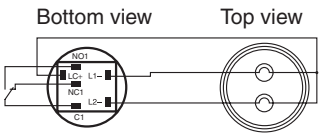
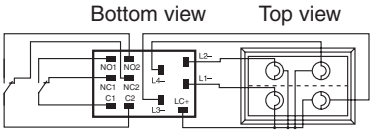
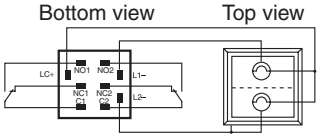
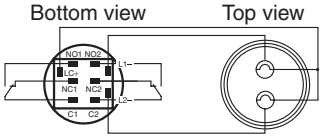
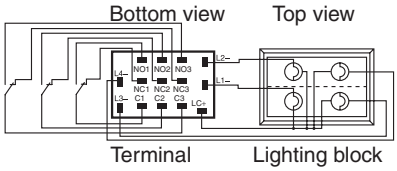
| Model | Rated voltage / Screen pattern | 5 VDC | 12 VDC | 24 VDC |
|---|---|---|---|---|
| A3PJ | Single screen |  |  |  |
| | Horizontal 2-split screen |  |  | |
| A3PA | Single screen |  |  |  |
| | 2-split screen |  |  | |

## Dimensions

(Unit: mm)

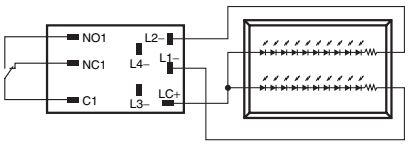
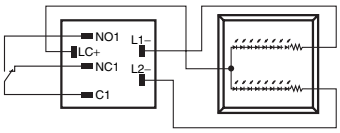
### Incandescent Lamp-lighted/LED Lamp-lighted Models

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

| Model / Output | Rectangular A3PJ models | Square A3PA models | Round A3PT models |
|---|---|---|---|
| SPDT |  |  |  |
| PPDT |  |  |  |
| 3PDT |  | --- | --- |

### LED Chameleon Models

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

| Rated voltage / Model | 24 VDC |
|---|---|
| Rectangular A3PJ model |  |
| Square A3PA model |  |

### Terminal Arrangement and Coloring

**Chameleon Models**

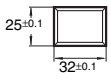
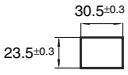
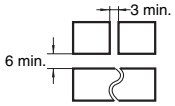
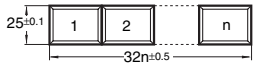
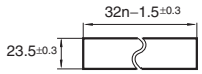
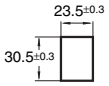
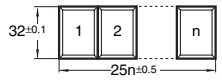
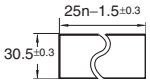
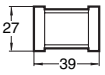
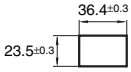
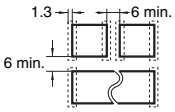
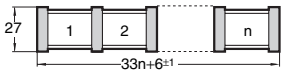
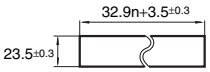
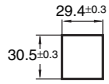
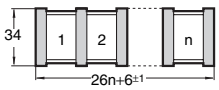
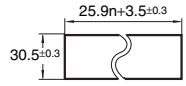
| Wiring | LC+ | LC+ | LC+ |
|---|---|---|---|
| | L1– | L2– | L1– and L2– shorted |
| Coloring | Green | Red | Orange |

# Dimensions

(Unit: mm)

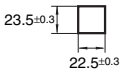
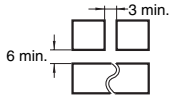
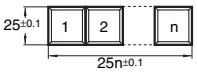
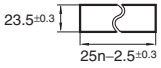
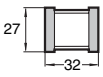
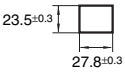
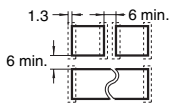
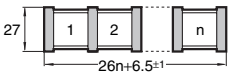
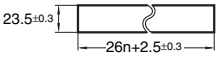
## Panel Cutout (If using a Switch Guard or Seal Cover, refer to the panel cutout diagrams on page 23.)

### 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 13. Panel cutout spacing between rows of Units: (Dotted line indicates the position of each mounting barrier.)   |
| | Multiple mounting (Horizontal) |   |   | |
| | Individual mounting (Horizontal) | Mount to long mounting plate (A3PJ-3002) before use. |   | |
| | Multiple mounting (Vertical) |   Mount to long mounting plate (A3PJ-3002) before use. |   | |

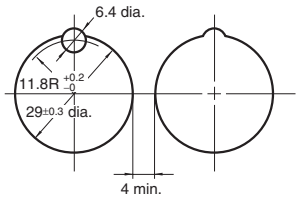
Note: 1. n: Number of Units
2. Recommended panel thickness: 1 to 5 mm
3. Mount the panel before mounting the Switch Guard.
4. If the panel is to be finished (e.g., coated), make sure that the panel meets the specified dimensions after the coating.

### 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.

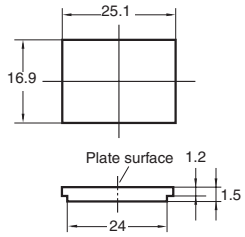
# Dimensions

(Unit: mm)

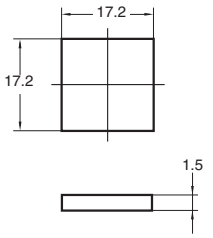
## Accessory Mounting Dimensions

### Legend Plate

**Rectangular Models**
**A3PJ-5201/-5202**

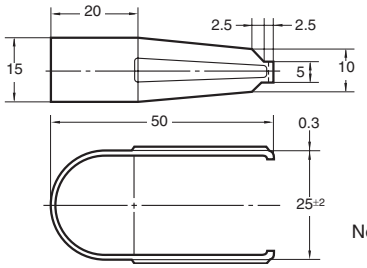



**Square Models**
**A3PA-5201/-5202**




### Extractor

**A3PJ-5080**

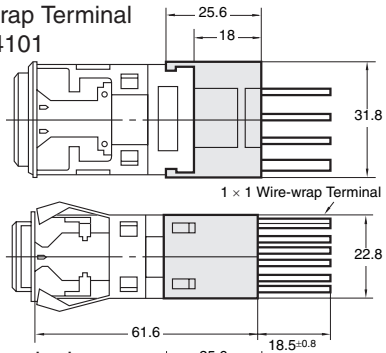



Note: Made from stainless steel.

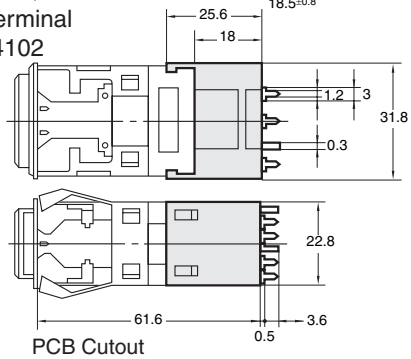
## Socket-mounting Dimensions

### Rectangular Models A3PJ (M2PJ)

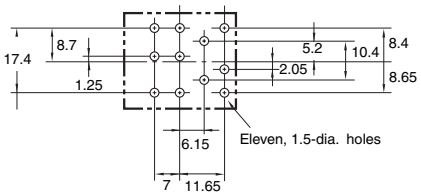
Wire-wrap Terminal
A3PJ-4101



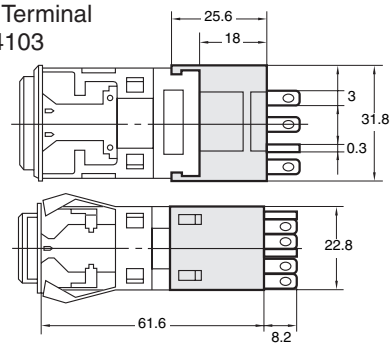

PCB Terminal
A3PJ-4102



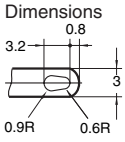

PCB Cutout
(bottom view)




Solder Terminal
A3PJ-4103

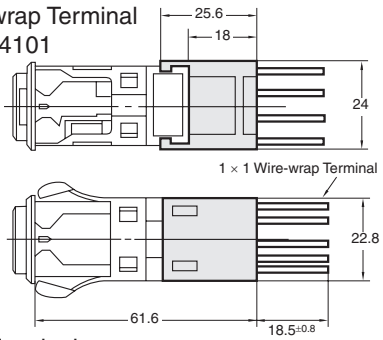



Terminal Hole
Dimensions

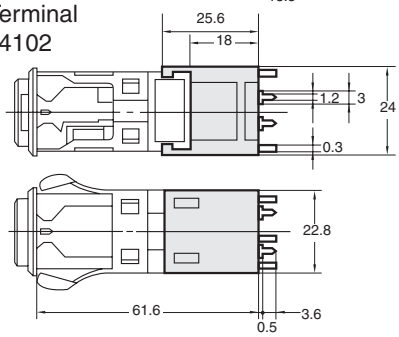



### Square Models A3PA (M2PA)

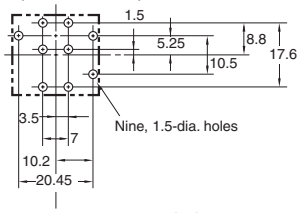
Wire-wrap Terminal
A3PA-4101



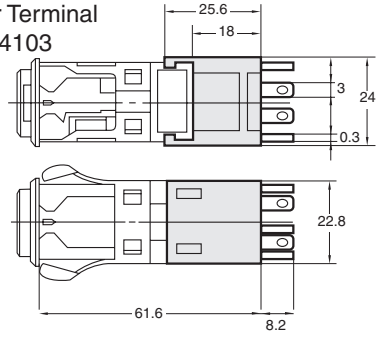

PCB Terminal
A3PA-4102



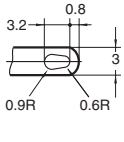

PCB Cutout
(bottom view)




Solder Terminal
A3PA-4103




Terminal Hole
Dimensions




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

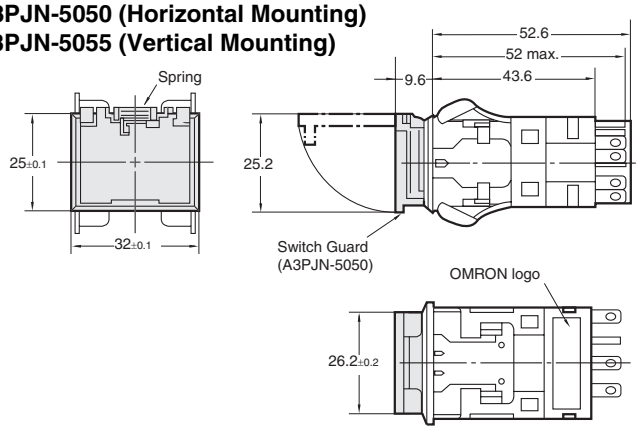
# Dimensions

(Unit: mm)

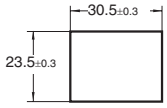
## Switch and Guard Mounting Dimensions

### Rectangular Models

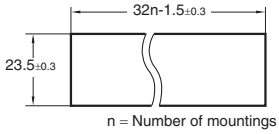
**A3PJN-5050 (Horizontal Mounting)**
**A3PJN-5055 (Vertical Mounting)**




Panel Cutouts
Individual Mounting
(Horizontal)



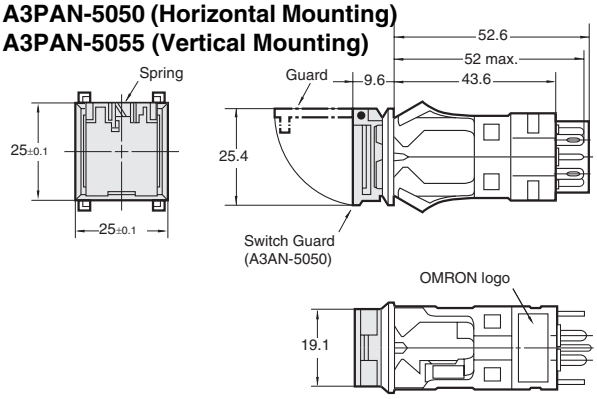

Multiple Mounting
(Horizontal)



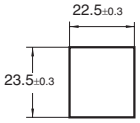

Note: Multiple vertical mounting is not possible.

### Square Models

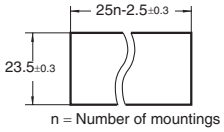
**A3PAN-5050 (Horizontal Mounting)**
**A3PAN-5055 (Vertical Mounting)**




Panel Cutouts
Individual Mounting
(Horizontal)




Multiple Mounting
(Horizontal)

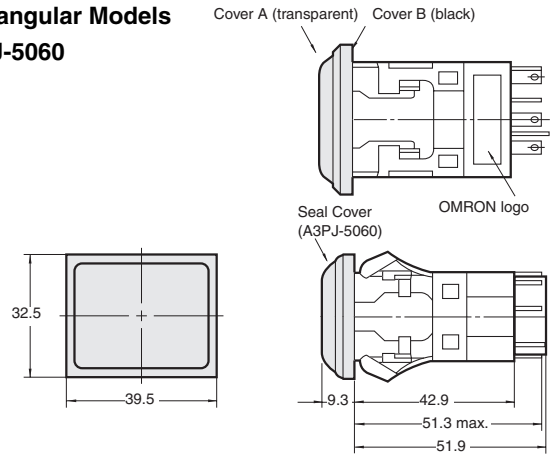



Note: Multiple vertical mounting is not possible.

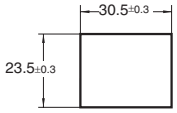
## Seal Cover Mounting Dimensions

### Rectangular Models

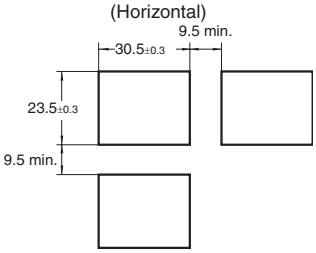
**A3PJ-5060**




Panel Cutouts
Individual Mounting
(Horizontal)

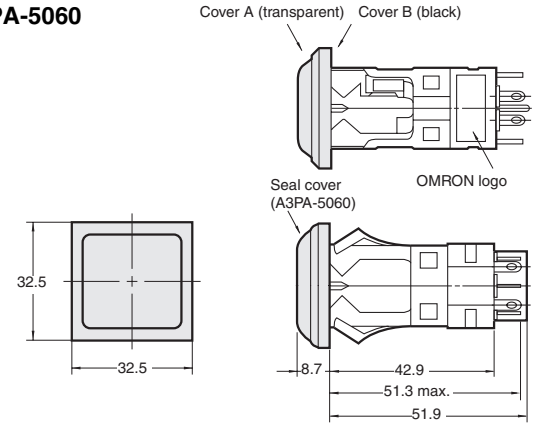



Multiple Mounting
(Horizontal)

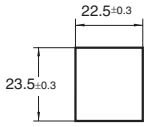



### Square Models

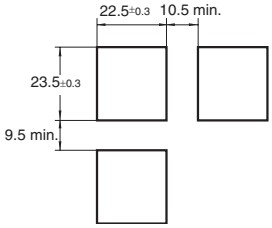
**A3PA-5060**




Panel Cutouts
Individual Mounting




Multiple Mounting




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 the incandescent lamp or LED will be damaged, and the Pushbutton will be ejected.

When replacing the incandescent lamp, first turn OFF the power supply, and then wait 10 minutes before performing replacement, as the lamp is still hot immediately after the power is turned OFF, so there is a risk of burns.

### 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)**

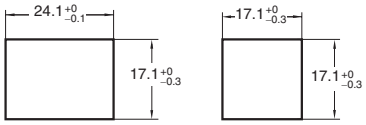
- Check the terminal polarity when wiring.
- The rated voltage is shown on the plate on the back of the lighting unit, so be sure to use within the voltage shown.
- An LED current-limiting resistor is built in, so there is no need to mount an external resistor.

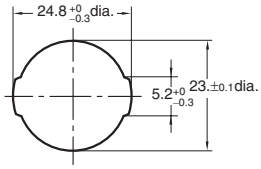
**Incandescent Lamp**

- Apply 80% of the rated voltage (operating voltage) to the incandescent lamp to improve life expectancy and incandescence.

**Character Plate (Character Film)**

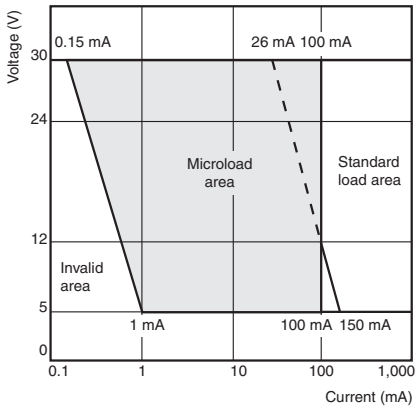
- If preparing the character plate separately, use a heat-resistant film with a thickness of 0.1 to 0.3 mm.




**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% (λ 60) (conforming to JIS C5003). The equation, λ 60 = 0.5 x $10^{-6}$/time indicates that the estimated malfunction rate is less than 1/2,000,000 with a reliability level of 60%.



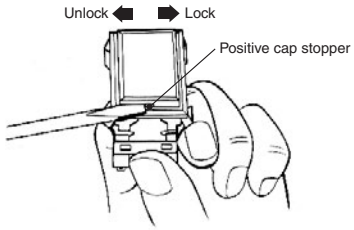

**Others**

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

## Assembly/Disassembly

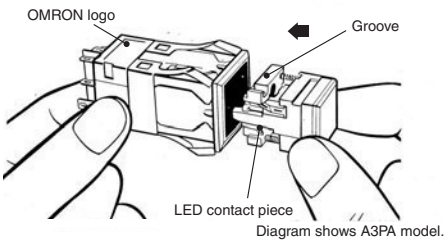
### A3PJ/M2PJ (Rectangular Models), A3PA/M2PA (Square Models)

#### Locking/Unlocking Positive Cap Lock Mechanism



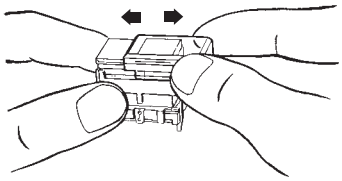

#### Mounting Pushbutton

- 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

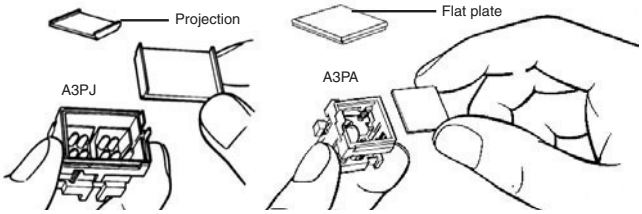
Insert the A3PA from the open side into the theft-prevention stopper.



#### Mounting Colored Plate

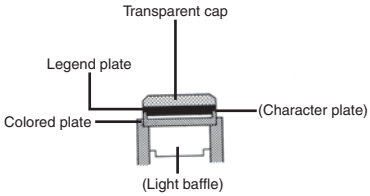
Place the colored plate on the plunger case with the dull side of the colored plate facing downward.

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.



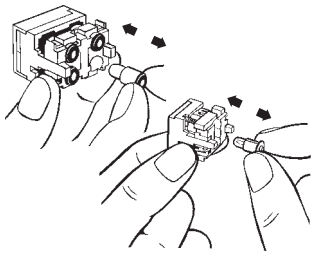

#### Mounting Character Plate (Character Frame) and Legend Plate

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




#### Mounting and Replacing LED and Incandescent Lamps

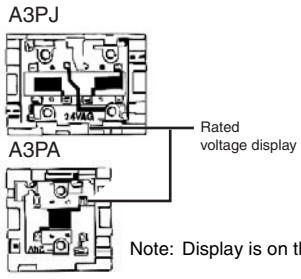
If using an A3PA (square) model with one incandescent lamp, insert the lamp in the center hole.



Note: Built-in LEDs cannot be replaced.

#### LED Rated Voltage Display (LED Models Only)

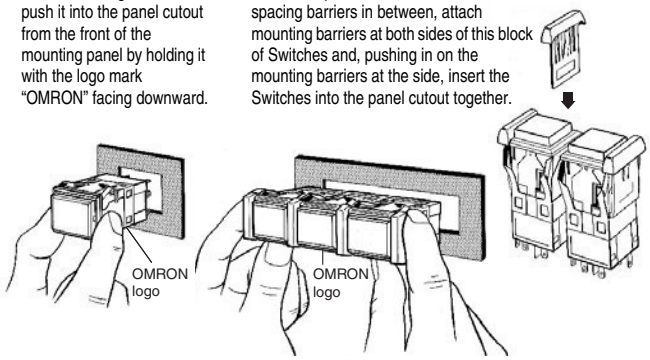
The LED rated voltage is shown between the built-in resistors on the back of the lighting unit. Use within a range of ± 5%.




Note: Display is on the back.

#### Mounting Switch onto Panel

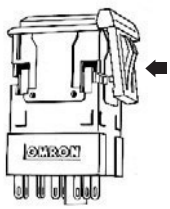
- Individual Mounting and Barrier Mounting
  When mounting the Switch, push it into the panel cutout from the front of the mounting panel by holding it with the logo mark "OMRON" facing downward.
- Multiple Barrier Mounting (A3PJ)
  When mounting a number of Switches in line on the panel, link the Switches with spacing barriers in between, attach mounting 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

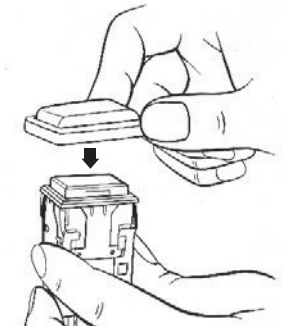
Mount each part by pushing it in the direction of the arrow shown in the corresponding illustration below.

Barrier mounting



**Mounting Seal Cover**

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

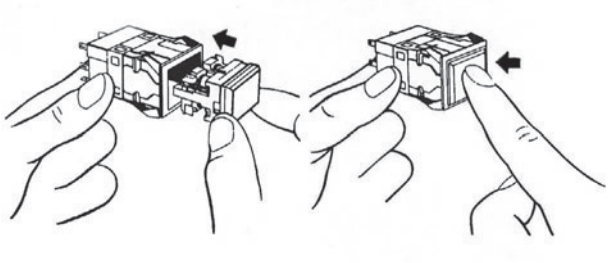


**Inscribing the Legend Plate**

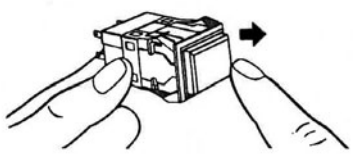
- Inscribe the legend plate to a depth of 0.5 mm max.
- The legend plate is made from polycarbonate resin. To coat the legend plate, use an alcohol-based coating such as melamine, phthalic acid, or acrylic.

**Maintenance Lock**

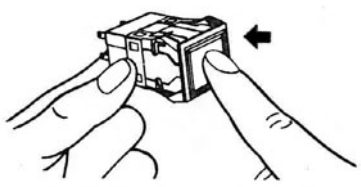
1. First, when you insert the transparent lens while pressing the center, the maintenance lock mechanism will be activated, and the Switch will not operate. Lamp replacement and other maintenance can be performed without turning OFF the power supply to devices and equipment. Use an insertion force of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



## 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.

## Warranty and Limitations of Liability

### WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

### LIMITATIONS OF LIABILITY

OMRON SHALL NOT BE RESPONSIBLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED ON CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY.

In no event shall the responsibility of OMRON for any act exceed the individual price of the product on which liability is asserted.

IN NO EVENT SHALL OMRON BE RESPONSIBLE FOR WARRANTY, REPAIR, OR OTHER CLAIMS REGARDING THE PRODUCTS UNLESS OMRON'S ANALYSIS CONFIRMS THAT THE PRODUCTS WERE PROPERLY HANDLED, STORED, INSTALLED, AND MAINTAINED AND NOT SUBJECT TO CONTAMINATION, ABUSE, MISUSE, OR INAPPROPRIATE MODIFICATION OR REPAIR.

## Application Considerations

### SUITABILITY FOR USE

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products.

At the customer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this catalog.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

### PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

## Disclaimers

### CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons.

It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the products may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

### DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

### PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

### ERRORS AND OMISSIONS

The information in this document has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical, or proofreading errors, or omissions.

2012.9

**In the interest of product improvement, specifications are subject to change without notice.**

**OMRON Corporation**
**Industrial Automation Company**

**http://www.ia.omron.com/**

(c)Copyright OMRON Corporation 2012 All Right Reserved.

LifeElectronics
Живое партнерство

**ООО «ЛайфЭлектроникс»** **“LifeElectronics” LLC**

*ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703*

*Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.*

*С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров*

*Мы предлагаем:*

- *Конкурентоспособные цены и скидки постоянным клиентам.*
- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

*В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.*

*Конструкторский отдел помогает осуществить:*

- *Регистрацию проекта у производителя компонентов.*
- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

*Тел: +7 (812) 336 43 04 (многоканальный)*
*Email: org@lifeelectronics.ru*

***www.lifeelectronics.ru***