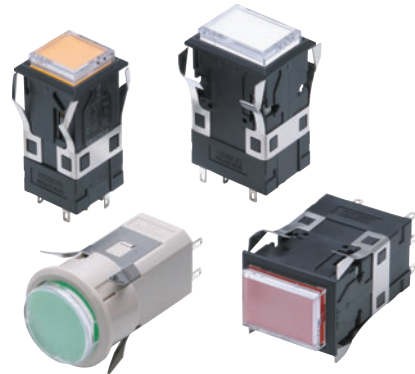



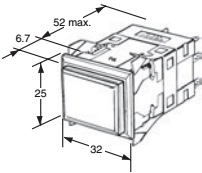
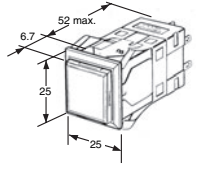
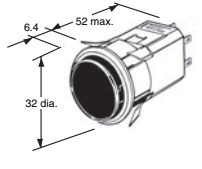
Large Square-bodied Lighted Pushbutton Switches

- 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.)



Standard Loads

| Output | Lighting | Contact type Operation | Standard load (250 VAC, 3 A; 30 VDC, 4 A) | | | | Pushbutton color symbol | |
|-------------------|-------------------|---------------------------|---|--------------------------------------|-------------------|------------------------------------|-------------------------------|------------------|
| | | | Case color | 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 | Microload (125 VAC, 0.1 A; 30 VDC, 0.1 A) | | Pushbutton color symbol | |
|-------------------|-------------------|---------------------------|---|--------------------------------------|-------------------------------|------------------|
| | | | Case color | 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

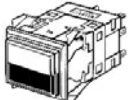
*1. You can change the screen colors of chameleon models between red, green, and orange, by changing the terminal wiring. Refer to page 20 for details.
*2. Incandescent lamps are supplied with colored plates (white, red, green, blue, and orange) and legend plates (milk-white and transparent). Use the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

A3PJ

Standard Loads

| Output | Lighting | Contact type Operation | Standard load (250 VAC, 3 A; 30 VDC, 4 A) | | | | Pushbutton color symbol | |
|------------|-------------------|---------------------------|---|--------------------------------------|----------------------|------------------------------------|-------------------------|------------|
| | | | Case color | 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 | | | | |

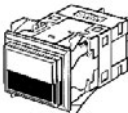
Note: Enter the desired color symbols for the Pushbutton in (1) and (2). (R) = Red, (O) = Orange, (G) = Green, (W) = White.

Example:

| |
|-------|
| Red |
| White |

 Upper A3PJ-90D21-24E(RW)
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) |  | (Horizontal 2-split Screen) | (1) |
| | | | | (2) |

A3PJ

Microloads

| Output | Lighting | Contact type Operation | Microload (125 VAC, 0.1 A; 30 VDC, 0.1 A) | | Pushbutton color symbol | |
|------------|-------------------|---------------------------|---|--------------------------------------|-------------------------|------------|
| | | | Case color | 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:

| |
|-------|
| Red |
| White |

 Upper A3PJ-90D21-24E(RW)
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.)



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 | 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) |
| 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-90A11-24ER

- *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 | 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 | --- | --- |
| 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-90E11-24ER

- *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.) | <ul style="list-style-type: none"> ■ 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 | Standard load (250 VAC, 3 A; 30 VDC, 4 A) | | | | Pushbutton color symbol | |
|--------|-------------------|---------------------------|---|--------------------------------------|----------------------|------------------------------------|-------------------------|------------|
| | | | Case color | 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 | |
| | | 6 VDC/VAC | A3PA-90A21-06 | A3PA-90A22-06 | A3PA-90B21-06 | A3PA-90B22-06 | * | |
| | Incandescent lamp | 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 | |
| | | 6 VDC/VAC | A3PA-90C21-06 | A3PA-90C22-06 | A3PA-90D21-06 | A3PA-90D22-06 | * | |
| | Incandescent lamp | 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:

| |
|-------|
| Red |
| 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 | Microload (125 VAC, 0.1 A; 30 VDC, 0.1 A) | | Pushbutton color symbol | |
|--------|-------------------|---------------------------|---|--------------------------------------|-------------------------|------------|
| | | | Case color | 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 | |
| | | 6 VDC/VAC | A3PA-90E21-06 | A3PA-90E22-06 | * | |
| | Incandescent lamp | 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 | |
| | | 6 VDC/VAC | A3PA-90G21-06 | A3PA-90G22-06 | * | |
| | Incandescent lamp | 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:

| |
|-------|
| Red |
| 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.



Standard Loads

| Output | Lighting | Contact type | Standard load (250 VAC, 3 A; 30 VDC, 4 A) | | Pushbutton color symbol | |
|--------|-------------------|--------------|---|--------------------------------------|-------------------------|------------------------------------|
| | | | Operation | Momentary operation (Self-resetting) | | Alternate operation (Self-holding) |
| | | | Case color | Light gray | | Light gray |
| 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.



Microloads

| Output | Lighting | Contact type | Microload (125 VAC, 0.1 A; 30 VDC, 0.1 A) | | Pushbutton color symbol |
|--------|-------------------|--------------|---|--------------------------------------|-------------------------|
| | | | Operation | Momentary operation (Self-resetting) | |
| | | | Case color | Light gray | |
| 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.)

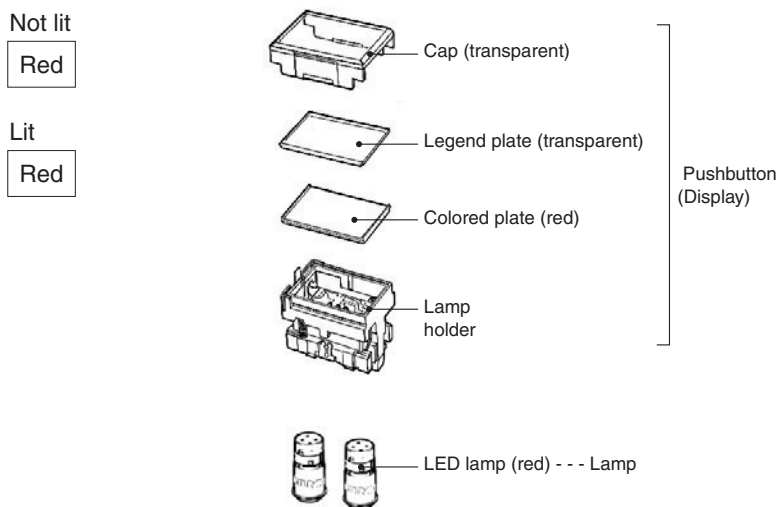
■ Specifications: Refer to page 15. ■ Dimensions: Refer to page 18.
■ Accessories: Refer to pages 13 to 15.

Ordering Information

Illumination-only and Colored-illumination LED Models

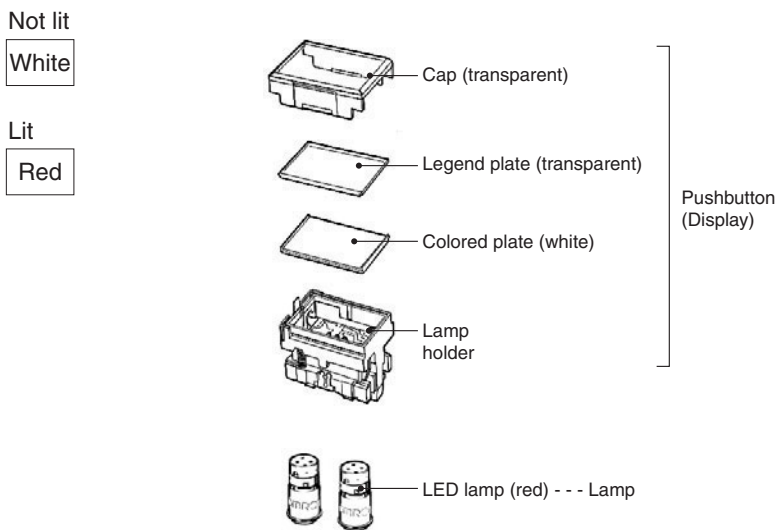
“Illumination only” describes LED models for which the screen color is the same whether the LED is lit or not. The screen simply becomes brighter when the LED lights.

Example: Red LED



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

Example: Red LED



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

| Pushbutton | Lamp | Switch |
|--|--|--------------------------------------|
| Select the LED lamp-lighted model required from the selection on page 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) A3PJ (rectangular): 4 A3PA (square): 2 A3PT (round): 2 | Select from the Switches on page 12. |

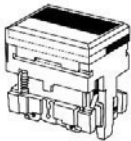
Ordering Information

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

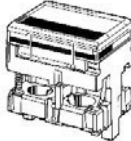
Round (A3PT) models not available.



· For Pushbutton Switch
A3P□-5□□□-□□E

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

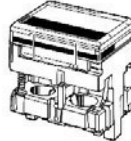
Pushbutton



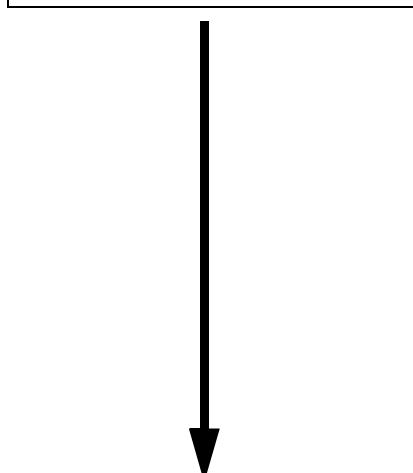
· For Pushbutton Switch
A3P□-502□

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


Pushbutton



· For Pushbutton Switch
A3P□-501□




Lamp (LED Lamp)*1



SLL-□□□□

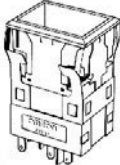
Lamp (Incandescent Lamp)*2



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

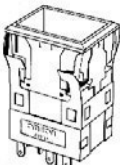
Switch *

Round (A3PT) models not available.



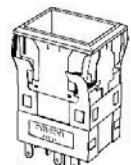
· For Pushbutton Switch
A3P□-7□□□□-□

Switch *



· For Pushbutton Switch
A3P□-7□□□□-□

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 | | | |
| 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 | | | |
| Horizontal 3-split screen | | | |
| 4-split screen | | | |

Ordering set combinations: Refer to page 3 to 7.

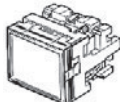





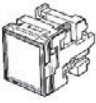





■ Specifications: Refer to page 15. ■ Dimensions: Refer to page 18.
■ Accessories: Refer to pages 13 to 15.

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 |
| | Horizontal 2-split screen |  | A3PJ-5711 -□□E | A3PJ-5712 -□□E | A3PJ-5713 -□□E | A3PJ-5716 -□□E |
| | |  | A3PJ-5721 -□□E | A3PJ-5722 -□□E | A3PJ-5723 -□□E | A3PJ-5726 -□□E |
| | |  | A3PJ-5731 -□□E | A3PJ-5732 -□□E | A3PJ-5733 -□□E | A3PJ-5736 -□□E |
| | |  | 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 |  | A3PA-5711 -□□E | A3PA-5712 -□□E | A3PA-5713 -□□E | A3PA-5716 -□□E |
| | |  | A3PA-5721 -□□E | A3PA-5722 -□□E | A3PA-5723 -□□E | A3PA-5726 -□□E |
| | |  | A3PA-5731 -□□E | A3PA-5732 -□□E | A3PA-5733 -□□E | A3PA-5736 -□□E |
| | |  | A3PA-5741 -□□E | A3PA-5742 -□□E | A3PA-5743 -□□E | A3PA-5746 -□□E |

- Enter the voltage to be used in the □□ at the end of the model number.
- Examples of voltages used:
5V=015E
12V=112E
24V=214E
Horizontal 2-split screen models support only 24V.
- For the color of the shaded part, select the model according to the colors given at the top of the table.

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

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

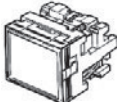
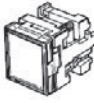
Ordering Individually Pushbuttons, Lamps, and Switches can be ordered separately. Combinations that are not available as sets can be created using individual Units. Also, store the parts as spares for maintenance and repairs.

Pushbutton

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

| Appearance | Rectangular models | | Square models | | Round models | | Selection precautions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|-----------|---|-----------|---|-------------|--|----------------|-------|-----|-------|--------|------|---------------|---|---|---|---|---|----------------------------|---|---|---|---|---|----------------------------|---|---|---|---|---|--------------------------|---|---|---|---|---|--------------------------|---|---|---|---|---|----------------|---|---|---|---|---|
| | Screen | Model | Screen | Model | Screen | Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Single screen |  | A3PJ-5011 |  | A3PA-5011 |  | A3PT-5011 * | <ul style="list-style-type: none"> 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. * A3PT (round) models do not contain a legend plate. The number of colored plates included is shown in the following table. <table border="1"> <thead> <tr> <th>Screen pattern</th> <th>White</th> <th>Red</th> <th>Green</th> <th>Orange</th> <th>Blue</th> </tr> </thead> <tbody> <tr> <td>Single screen</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>Horizontal 2-split screens</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>Horizontal 3-split screens</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Vertical 2-split screens</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>Vertical 3-split screens</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>4-split screen</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> </tbody> </table> | Screen pattern | White | Red | Green | Orange | Blue | Single screen | 1 | 1 | 1 | 1 | 1 | Horizontal 2-split screens | 1 | 1 | 1 | 1 | 1 | Horizontal 3-split screens | 2 | 2 | 2 | 2 | 2 | Vertical 2-split screens | 1 | 1 | 1 | 1 | 1 | Vertical 3-split screens | 2 | 2 | 2 | 2 | 2 | 4-split screen | 2 | 2 | 2 | 2 | 2 |
| Screen pattern | White | Red | Green | Orange | Blue | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Single screen | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Horizontal 2-split screens | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Horizontal 3-split screens | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vertical 2-split screens | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vertical 3-split screens | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-split screen | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | --- | | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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.)

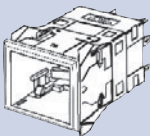
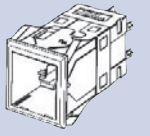
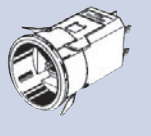
LED Lamp

| Color | Voltage | 5 VDC | 12 VDC | 24 VDC | Applicable cap (color) (colored plate) | Selection precautions |
|--------|---------|-----------------|-----------------|-----------------|---|--|
| | | Model (DC only) | Model (DC only) | Model (DC only) | | |
| Red | | SLL-05ER | SLL-12ER | SLL-24ER | Red | In the standard setup, 4 LED lamps are used with A3PJ models and 2 LED lamps are used with A3PA and A3PT models. |
| Yellow | | SLL-05EY | SLL-12EY | SLL-24EY | Orange | |
| Green | | SLL-05EG | SLL-12EG | SLL-24EG | Green | |
| White | | SLL-05EW | SLL-12EW | SLL-24EW | White | |

Incandescent Lamp

| Voltage | Lamp type | Standard lamp | Low-power lamp | Selection precautions |
|------------|-----------|---------------|----------------|---|
| 5 VAC/VDC | | SLL-06 | SLL-06H | <ul style="list-style-type: none"> 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. In the standard setup for A3PA models, 1 lamp is used with single screen models, and 2 lamps are used with split-screen models. 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)

| | | | | Rectangular models | Square models | Round models | Selection precautions |
|---------------|--------------------------|-----------|---------------------|--|--|--|---|
| Appearance | | | |  |  |  | |
| Contact type | Switch Number of outputs | Operation | | Model | Model | Model | |
| Standard load | Silver alloy contact | 1 | Momentary operation | A3PJ-7010-1 | A3PA-7010-1 | A3PT-7010-2 | <ul style="list-style-type: none"> The end digit denotes the color of the flange: -1 denotes a black flange, and -2 denotes a light gray flange. Round switches are available only in light gray, and not in black. Use the Switch in combination with the same shape Lamp (rectangular, square or round). Example: For rectangular Lamp A3PJ-5011, select Switch A3PJ-7□□0-□. On the Switch itself, however, only 3 digits are shown, as follows: A3PJ-7□□. Momentary operation is self-resetting, and alternate operation is self-holding (i.e., push-on, push-off). |
| | | | Alternate operation | A3PJ-7020-1 | A3PA-7020-1 | A3PT-7020-2 | |
| | | 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 | --- | --- | |

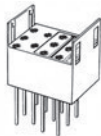




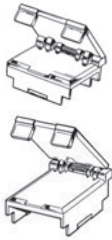
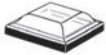

Ordering set combinations: Refer to page 3 to 7.

■ 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 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> The purpose of the barrier is to prevent malfunctioning and to improve design image of the mounting panel. Intermediate barrier × 1. Edge barriers × 1 pair (2 Units). Mount short barriers horizontally. Mount long barriers vertically. For details on mounting, refer to page 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 | <ul style="list-style-type: none"> Can be used by exchanging with the cap. Cannot be used with seal cover. Can be used with barrier. Use horizontal mounting guard for consecutive horizontal mounting, and use vertical mounting guard for consecutive vertical mounting. |
| | | For vertical mounting (with OMRON logo facing to the right) | | A3PJN-5055 | A3PAN-5055 | |
| Seal cover |  | --- | | A3PJ-5060 | A3PA-5060 | <ul style="list-style-type: none"> Cannot be used with barrier and/or switch guard. For details on mounting, refer to page 25. Cap is manufactured from vinyl chloride. |
| Long mounting plate |  | --- | | A3PJ-3002 | --- | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> • Keep mounted at all times. • Contact your OMRON representative for color changes or other specifications. • 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 | <ul style="list-style-type: none"> • Keep mounted at all times. If the colored plate is lost or damaged, contact OMRON. • Use in accordance with coloring of the built-in LED. • For details on mounting, refer to page 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 | <ul style="list-style-type: none"> • Keep mounted at all times. If the light baffle is lost, contact OMRON. • Used in LED lamp-lighted models. Cannot be used in LED-lighted models. |
| | | 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 | <ul style="list-style-type: none"> • A transparent legend plate is mounted on the Pushbutton. |
| | | Milk-white legend plate | | A3PJ-5201 | A3PA-5201 | |
| Cap |  | Transparent cap | | A3PJ-5600 | A3PA-5600 | <ul style="list-style-type: none"> • The surface is crimp-processed, so there is no reflection. |
| | | Crimp-processed transparent cap | | A3PJ-5600-A | A3PA-5600-A | |

Ordering Information

Tools

| Name | Appearance | Classification | Model | Application precautions |
|-----------|---|----------------|-----------|--|
| Extractor |  | --- | A3PJ-5080 | <ul style="list-style-type: none"> 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); 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

| Model | | A3PJ/M2PJ | | A3PA/M2PA | |
|-----------------|---------------|---------------|----------------|---------------|----------------|
| Applied voltage | Rated voltage | Rated current | | Rated current | |
| | | Single screen | 2-split screen | Single screen | 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 | Red |
| 12 VDC±5% | 12 VDC | 26 mA | 20 mA |
| 24 VDC±5% | 24 VDC | 13 mA | 10 mA |

Incandescent Lamp

| Item | | Standard lamp | | Low-power lamp | |
|-----------------|---------------|---------------|--------|----------------|---------|
| Applied voltage | Rated voltage | Rated current | Model | Rated current | 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/s ² max. |
| | Malfunction | 200 m/s ² max. (1 ms max.) |
| Life expectancy | Mechanical | Momentary operation models: 1,000,000 operations min. Alternate operation models: 200,000 operations min. (One operation consists of set and reset operations.) |
| | Electrical | 100,000 operations min. |
| Weight | | Approx. 30 g |
| Inrush current | NC | Silver contact: 10 A max. |
| | NO | Silver contact: 10 A max. |
| Ambient operating temperature | | LED-lighted models: -10°C to 40°C (with no icing or condensation) 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

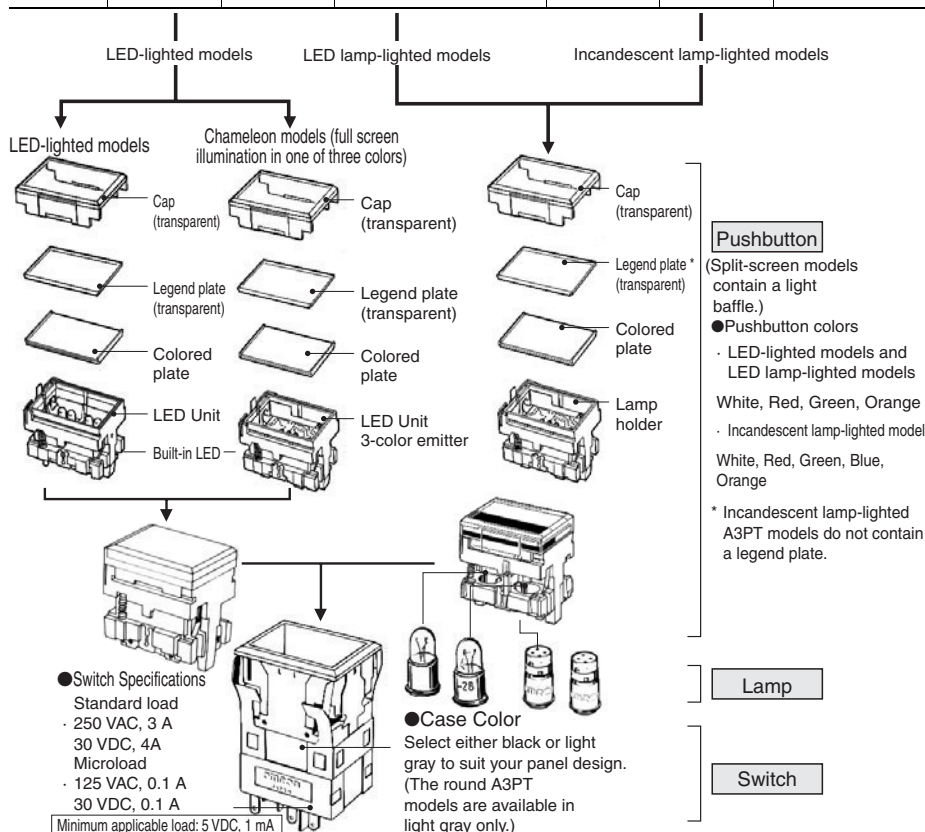
Operating Characteristics

| 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

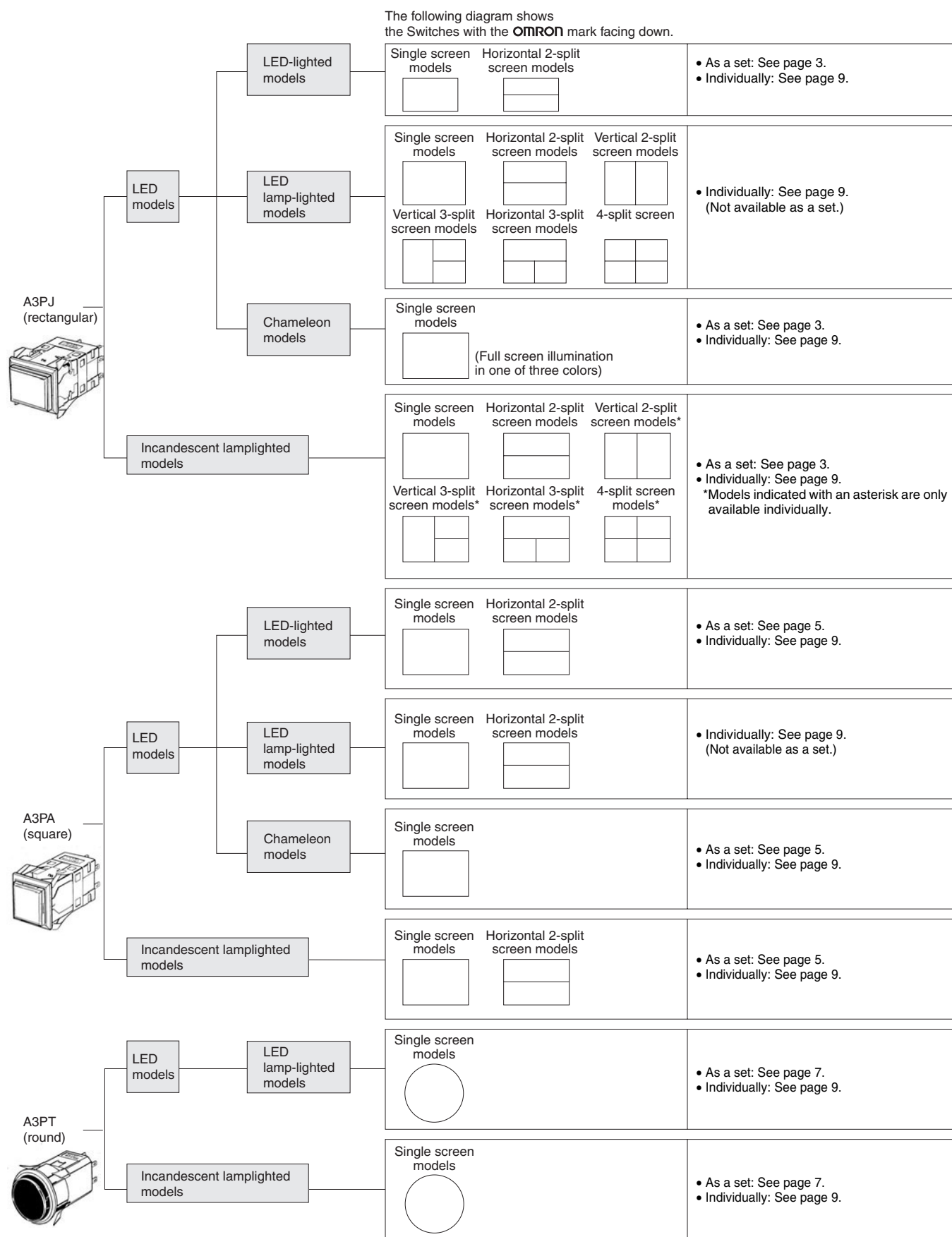
Model Structure

| 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.) | | | |
|-----------------|---------------------------------------|-------------------------------|---|-------------------------------|-------------------------------|---|-------------------------------|-------------------------------|-------------------|
| | A3PJ | A3PA | A3PJ | A3PA | A3PT | A3PJ | A3PA | A3PT | |
| Screen patterns | Single screen | Single screen | Single screen | Vertical 3-split screen | Single screen | Single screen | Single screen | Single screen | Single screen |
| | Horizontal 2-split screen | Horizontal 2-split screen | Horizontal 2-split screen | Horizontal 3-split screen | Horizontal 2-split screen | Single screen | Vertical 3-split screen | Single screen | Single screen |
| | Chameleon (3-color) | Chameleon (3-color) | Vertical 2-split screen | 4-split screen | Horizontal 2-split screen | Single screen | Horizontal 2-split screen | Horizontal 2-split screen | Single screen |
| | | | Vertical 2-split screen | 4-split screen | Horizontal 2-split screen | Single screen | Vertical 2-split screen | 4-split screen | Single screen |



Nomenclature

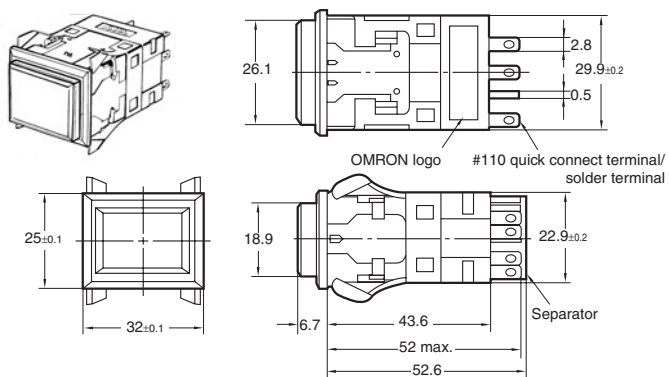
A3P Lighting Method Diagram



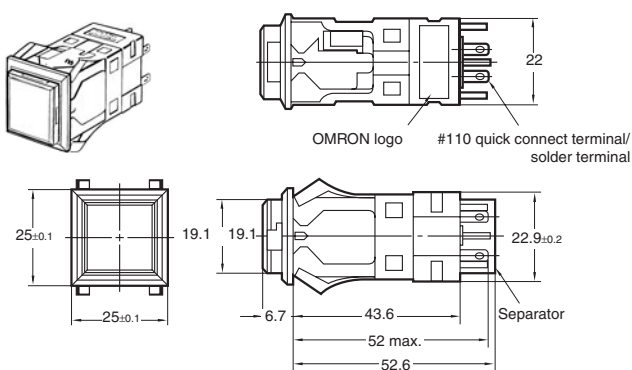
Dimensions The Dimension shows 2-switch outputs.

(Unit: mm)

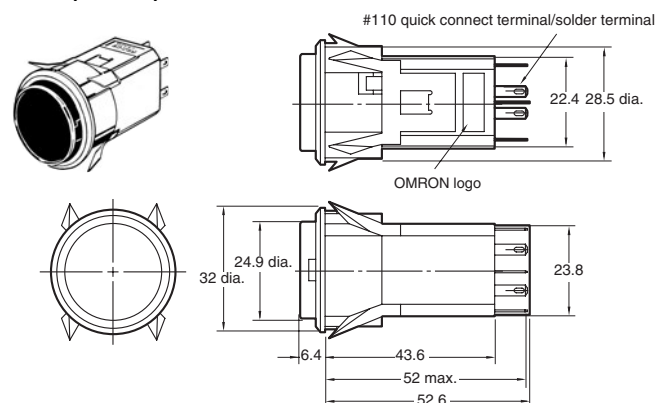
A3PJ (Rectangular) Models



A3PA (Square) Models



A3PT (Round) Models





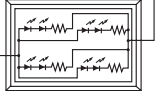

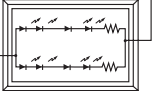

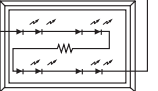

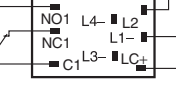
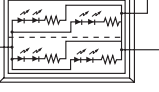

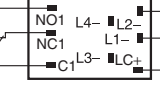
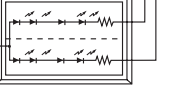


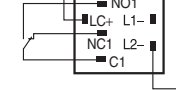
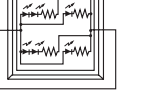
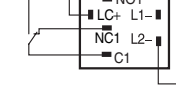
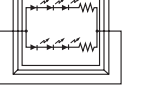
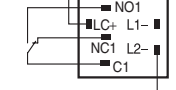
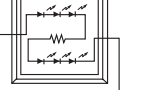

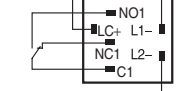
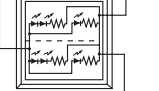

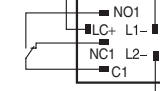
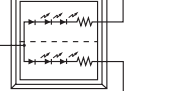

Note: The thickness of tab terminals #110 and solder terminals is 0.5 mm.

Dimensions

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.)

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

Dimensions

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.)

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

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 | 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 |

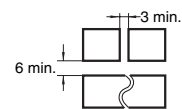
Dimensions

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

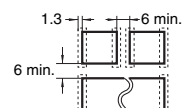
A3PJ (Rectangular) Models

| Classification | Mounting design | Panel cutout | Remarks |
|----------------------|----------------------------------|--------------|---------|
| Flange mount models | Individual mounting (Horizontal) | | |
| | Multiple mounting (Horizontal) | | |
| | Individual mounting (Vertical) | | |
| | Multiple mounting (Vertical) | | |
| Barrier mount models | Individual mounting (Horizontal) | | |
| | Multiple mounting (Horizontal) | | |
| | Individual mounting (Horizontal) | | |
| | Multiple mounting (Vertical) | | |

Panel cutout spacing between rows of Units:



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.)



Note: 1. n: Number of Units

2. Recommended panel thickness: 1 to 5 mm

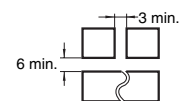
3. Mount the panel before mounting the Switch Guard.

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

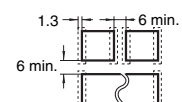
A3PA (Square) Models

| Classification | Mounting design | Panel cutout | Remarks |
|----------------------|---------------------|--------------|---------|
| Flange mount models | Individual mounting | | |
| | Multiple mounting | | |
| Barrier mount models | Individual mounting | | |
| | Multiple mounting | | |

Panel cutout spacing between rows of Units:



Panel cutout spacing between rows of Units: (Dotted line indicates the position of each mounting barrier.)



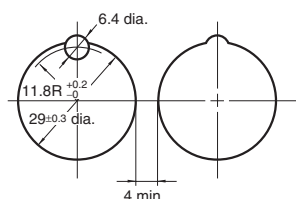
Note: 1. n: Number of Units

2. Recommended panel thickness: 1 to 5 mm

3. Mount the panel before mounting the Switch Guard.

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

A3PT (Round) Models



Note: 1. Recommended panel thickness: 1 to 5 mm

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

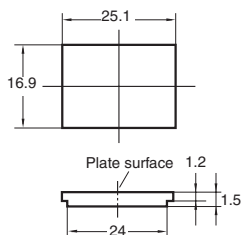
Dimensions

Accessory Mounting Dimensions

Legend Plate

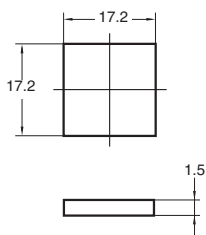
Rectangular Models

A3PJ-5201/-5202



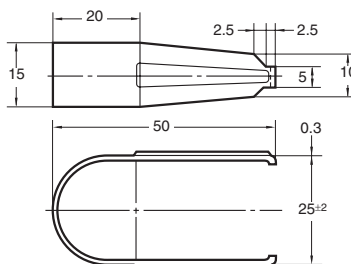
Square Models

A3PA-5201/-5202



Extractor

A3PJ-5080

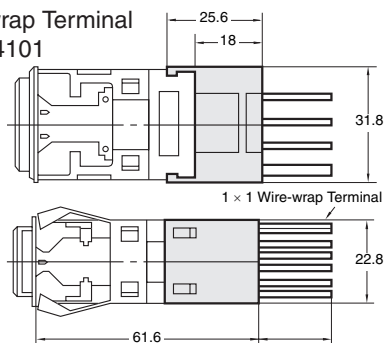


Note: Made from stainless steel.

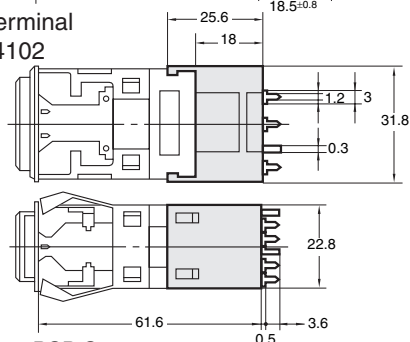
Socket-mounting Dimensions

Rectangular Models A3PJ (M2PJ)

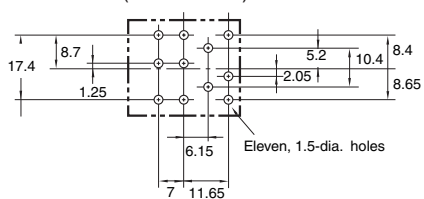
Wire-wrap Terminal A3PJ-4101



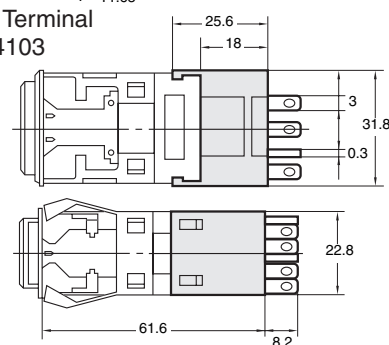
PCB Terminal A3PJ-4102



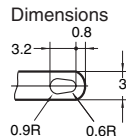
PCB Cutout (bottom view)



Solder Terminal A3PJ-4103

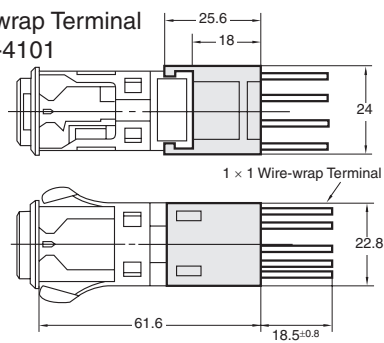


Terminal Hole Dimensions

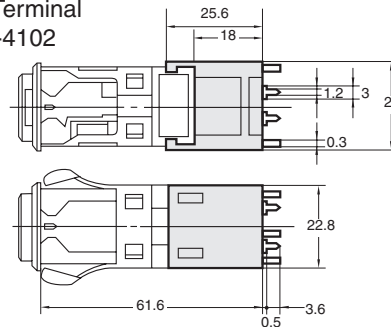


Square Models A3PA (M2PA)

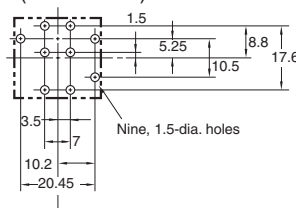
Wire-wrap Terminal A3PA-4101



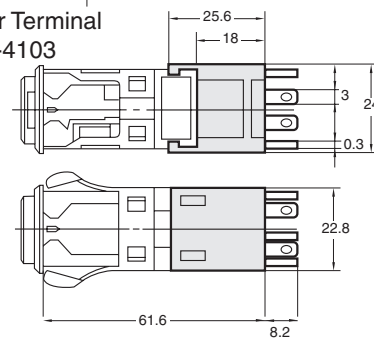
PCB Terminal A3PA-4102



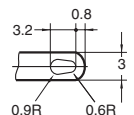
PCB Cutout (bottom view)



Solder Terminal A3PA-4103



Terminal Hole Dimensions



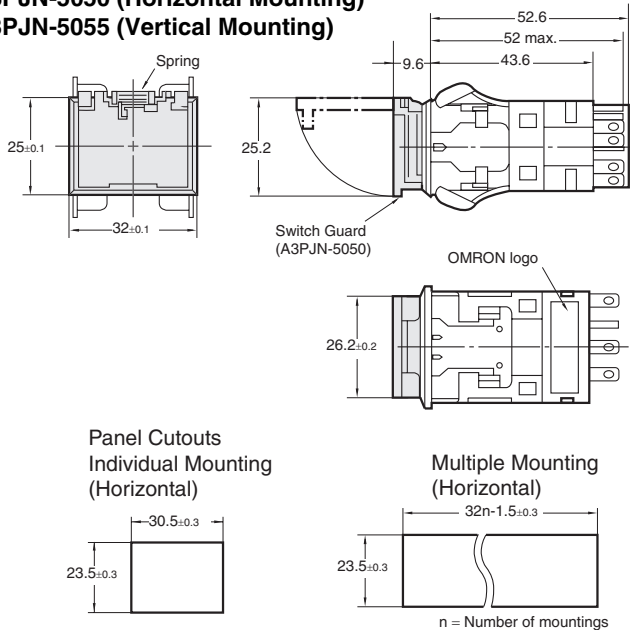
Note: PCB cutout dimensions show the switch mounted to the socket with the OMRON logo facing down.

Dimensions

Switch and Guard Mounting Dimensions

Rectangular Models

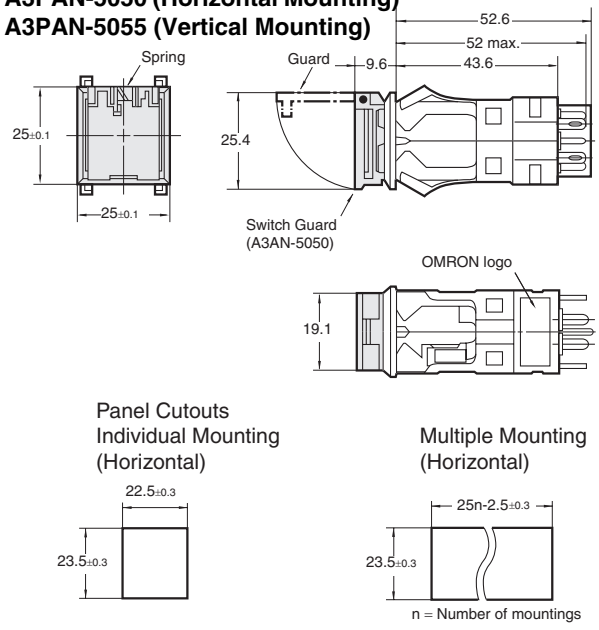
A3PJN-5050 (Horizontal Mounting)
A3PJN-5055 (Vertical Mounting)



Note: Multiple vertical mounting is not possible.

Square Models

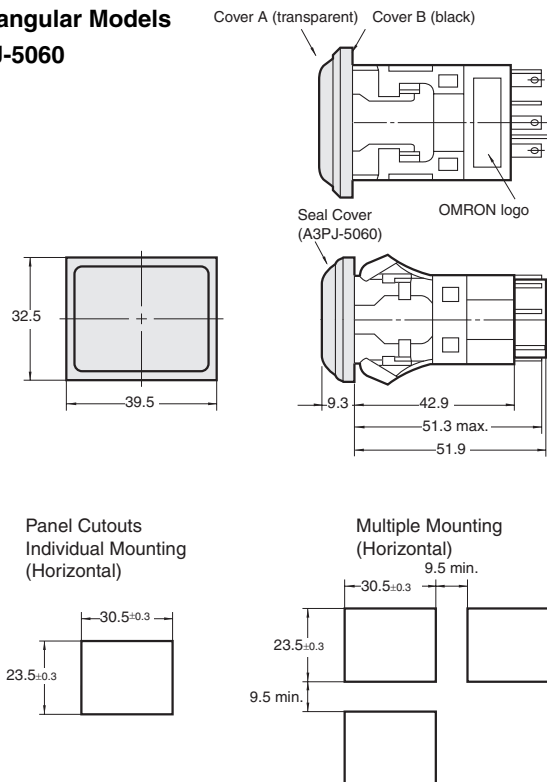
A3PAN-5050 (Horizontal Mounting)
A3PAN-5055 (Vertical Mounting)



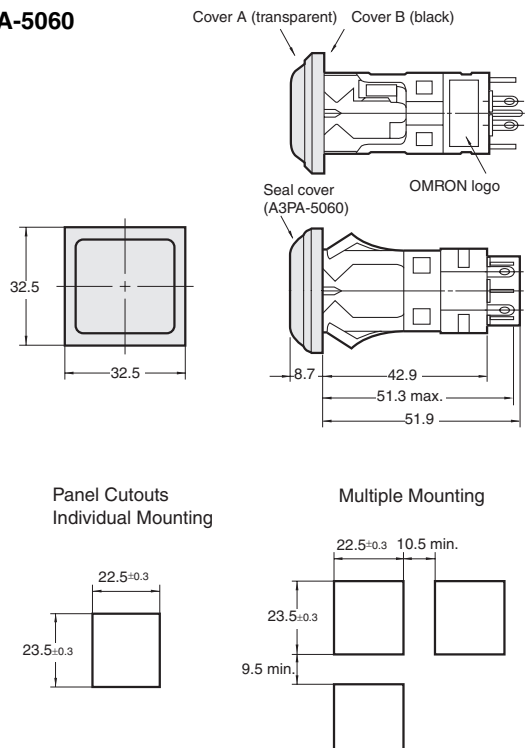
Note: Multiple vertical mounting is not possible.

Seal Cover Mounting Dimensions

Rectangular Models
A3PJ-5060



Square Models
A3PA-5060



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

Safety Precautions

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

Caution

Do not apply a voltage higher than the maximum rated operating voltage between the lamp terminals, as there is a risk that 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)

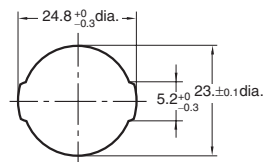
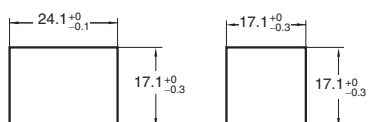
- Check the terminal polarity when wiring.
- The rated voltage is shown on the plate on the back of the lighting unit, so be sure to use within the voltage shown.
- An LED current-limiting resistor is built in, so there is no need to mount an external resistor.

Incandescent Lamp

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

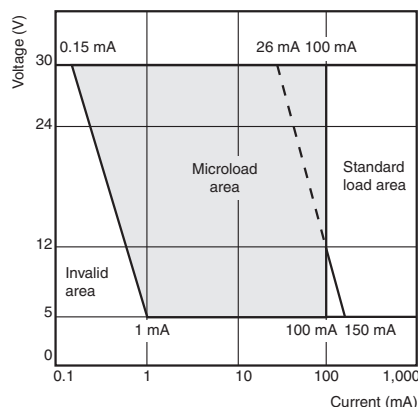
Character Plate (Character Film)

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



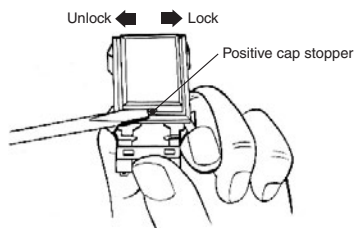
Others

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

Assembly/Disassembly

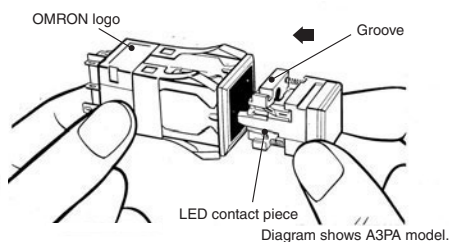
A3PJ/M2PJ (Rectangular Models), A3PA/M2PA (Square Models)

Locking/Unlocking Positive Cap Lock Mechanism



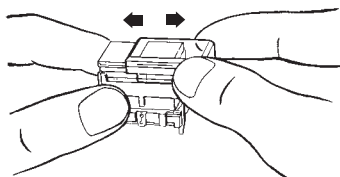
Mounting Pushbutton

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



Removing/Mounting Cap

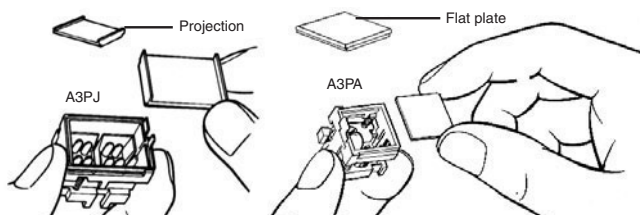
Insert the A3PA from the open side into the theft-prevention stopper.



Mounting Colored Plate

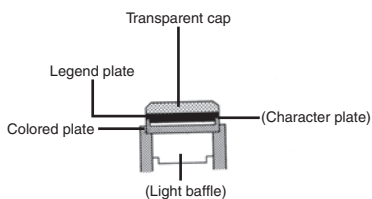
Place the colored plate on the plunger case with the dull side of the colored plate facing downward.

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.



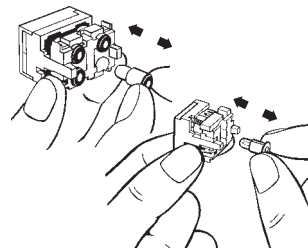
Mounting Character Plate (Character Frame) and Legend Plate

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

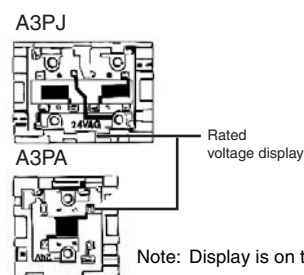
If using an A3PA (square) model with one incandescent lamp, insert the lamp in the center hole.



Note: Built-in LEDs cannot be replaced.

LED Rated Voltage Display (LED Models Only)

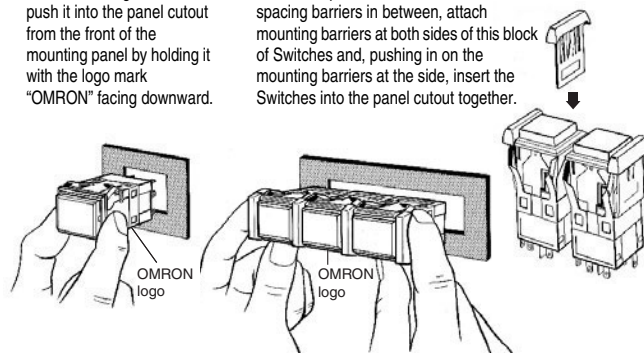
The LED rated voltage is shown between the built-in resistors on the back of the lighting unit. Use within a range of $\pm 5\%$.



Note: Display is on the back.

Mounting Switch onto Panel

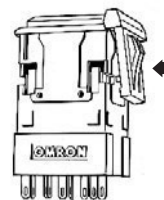
- **Individual Mounting and Barrier Mounting**
When mounting the Switch, push it into the panel cutout from the front of the mounting panel by holding it with the logo mark "OMRON" facing downward.
- **Multiple Barrier Mounting (A3PJ)**
When mounting a number of Switches in line on the panel, link the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

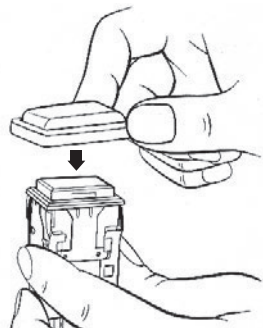
Mount each part by pushing it in the direction of the arrow shown in the corresponding illustration below.

Barrier mounting



Mounting Seal Cover

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

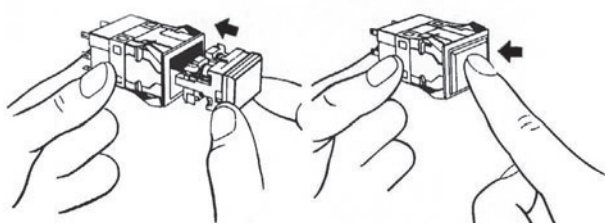


Inscribing the Legend Plate

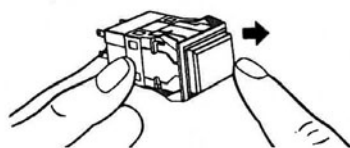
- Inscribe the legend plate to a depth of 0.5 mm max.
- The legend plate is made from polycarbonate resin. To coat the legend plate, use an alcohol-based coating such as melamine, phthalic acid, or acrylic.

Maintenance Lock

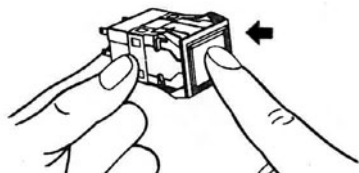
1. First, when you insert the transparent lens while pressing the center, the maintenance lock mechanism will be activated, and the Switch will not operate. Lamp replacement and other maintenance can be performed without turning OFF the power supply to devices and equipment. Use an insertion force of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



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2012.9

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