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)	52 max.
A3PA (Square)	6.7 52 max 25 25 25 25 25 25 25 25 25 25 25 25 25 2
A3PT (Round)	6.4 52 max

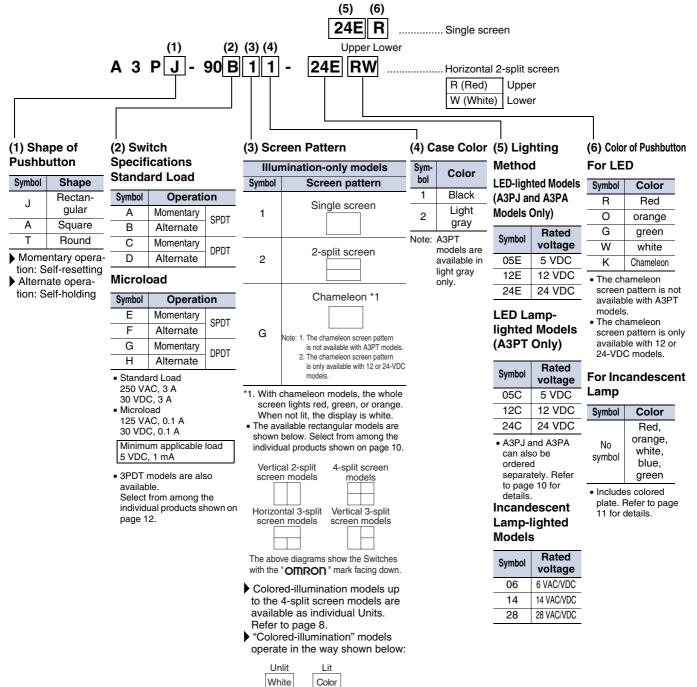
Note: The A3PJ is shown in the figure above as an example.

- 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.

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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.



The built-in LED

Number of LED Lamps

Screen pattern	A3PJ	A3PA	A3PT
Single screen	Models with	Models with built-in LED	
Horizontal 2-split screen	Models with built-in LED		
Vertical 2-split screen			
Horizontal 3-split screen	4		
Vertical 3-split screen	*2		
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-pow-	2	
Vertical 2-split screen	er incan-		
Horizontal 3-split screen	descent		
4-split screen	lamp)		

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



the Pushbutton, Lamp, and Switch.

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

Rectangular Models

(Single Screen)



(Single Screen) A3PJ

(1)

Standard Loads

		Contact type		Standard load (250 V	AC, 3 A; 30 VDC, 4 A)		
		Operation	Momentary operati	ion (Self-resetting)	Alternate operati	on (Self-holding)	Pushbutton color
Output	Lighting	Case color	Black	Light gray	Black	Light gray	symbol
		5 VDC	A3PJ-90A11-05E(1)	A3PJ-90A12-05E(1)	A3PJ-90B11-05E(1)	A3PJ-90B12-05E(1)	R
	LED	12 VDC	A3PJ-90A11-12E(1)	A3PJ-90A12-12E(1)	A3PJ-90B11-12E(1)	A3PJ-90B12-12E(1)	O G
		24 VDC	A3PJ-90A11-24E(1)	A3PJ-90A12-24E(1)	A3PJ-90B11-24E(1)	A3PJ-90B12-24E(1)	W
SPDT	011	12 VDC	A3PJ-90AG1-12EK		A3PJ-90BG1-12EK	A3PJ-90BG2-12EK	**
SFDI	Chameleon	24 VDC	A3PJ-90AG1-24EK	A3PJ-90AG2-24EK	A3PJ-90BG1-24EK	A3PJ-90BG2-24EK	*1
	Incandescent lamp	6 VDC/VAC	A3PJ-90A11-06	A3PJ-90A12-06	A3PJ-90B11-06	A3PJ-90B12-06	
		14 VDC/VAC	A3PJ-90A11-14	A3PJ-90A12-14	A3PJ-90B11-14	A3PJ-90B12-14	*2
		28 VDC/VAC	A3PJ-90A11-28	A3PJ-90A12-28	A3PJ-90B11-28	A3PJ-90B12-28	
		5 VDC	A3PJ-90C11-05E(1)	A3PJ-90C12-05E(1)	A3PJ-90D11-05E(1)	A3PJ-90D12-05E(1)	R
	LED	12 VDC	A3PJ-90C11-12E(1)	A3PJ-90C12-12E(1)	A3PJ-90D11-12E(1)	A3PJ-90D12-12E(1)	0
		24 VDC	A3PJ-90C11-24E(1)	A3PJ-90C12-24E(1)	A3PJ-90D11-24E(1)	A3PJ-90D12-24E(1)	G W
DPDT		12 VDC	A3PJ-90CG1-12EK	A3PJ-90CG2-12EK	A3PJ-90DG1-12EK		
וטיוט	Chameleon	24 VDC	A3PJ-90CG1-24EK	A3PJ-90CG2-24EK	A3PJ-90DG1-24EK	A3PJ-90DG2-24EK	*1
	_	6 VDC/VAC	A3PJ-90C11-06	A3PJ-90C12-06	A3PJ-90D11-06	A3PJ-90D12-06	
	Incandescent	14 VDC/VAC	A3PJ-90C11-14	A3PJ-90C12-14	A3PJ-90D11-14	A3PJ-90D12-14	*2
	lamp	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-90A11-24ER

*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

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

*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.) ■ Specifications: Refer to page 15. ■ Dimensions: Refer to page 18.

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.)

Models

Rectangular (Horizontal 2-split Screen)



(Horizontal 2-split Screen) A3PJ

(1) (2)

Standard Loads

		Contact type Standard load (250 VAC, 3 A; 30 VDC, 4 A)					
		Operation	Momentary operat	ion (Self-resetting)	Alternate operati	ion (Self-holding)	Pushbutton
Output	Lighting	Case color	Black	Light gray	Black	Light gray	color symbol
	LED	5 VDC	A3PJ-90A21-24E(1)(2)	A3PJ-90A22-24E(1)(2)	A3PJ-90B21-24E(1)(2)	A3PJ-90B22-24E(1)(2)	ROGW
SPDT	Incandescent lamp	6 VDC/VAC	A3PJ-90A21-06	A3PJ-90A22-06	A3PJ-90B21-06	A3PJ-90B22-06	
ЭРИ		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	
	LED	24 VDC	A3PJ-90C21-24E(1)(2)	A3PJ-90C22-24E(1)(2)	A3PJ-90D21-24E(1)(2)	A3PJ-90D22-24E(1)(2)	ROGW
DPDT		6 VDC/VAC	A3PJ-90C21-06	A3PJ-90C22-06	A3PJ-90D21-06	A3PJ-90D22-06	
וטייט	Incandescent lamp	14 VDC/VAC	A3PJ-90C21-14	A3PJ-90C22-14	A3PJ-90D21-14	A3PJ-90D22-14	*
	шпр	28 VDC/VAC	A3PJ-90C21-28	A3PJ-90C22-28	A3PJ-90D21-28	A3PJ-90D22-28	<u> </u>

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-90D21-24ERW

Red White

Rectangular Models

(Horizontal 2-split Screen)



(Horizontal 2-split Screen)

(1) (2)

Microloads

Contact type			Microload (125 VAC,	0.1 A; 30 VDC, 0.1 A)	
		Operation	Momentary operat	ion (Self-resetting)	Pushbutton
Output	Lighting	Case color	Black	Light gray	color symbol
	LED	5 VDC	A3PJ-90E21-24E(1)(2)	A3PJ-90E22-24E(1)(2)	ROGW
SPDT		6 VDC/VAC	A3PJ-90E21-06	A3PJ-90E22-06	
SPDI	Incandescent lamp	14 VDC/VAC	A3PJ-90E21-14	A3PJ-90E22-14	*
	lamp	28 VDC/VAC	A3PJ-90E21-28	A3PJ-90E22-28	
	LED	5 VDC	A3PJ-90G21-24E(1)(2)	A3PJ-90G22-24E(1)(2)	ROGW
DPDT		6 VDC/VAC	A3PJ-90G21-06	A3PJ-90G22-06	
וטייט	Incandescent lamp	14 VDC/VAC	A3PJ-90G21-14	A3PJ-90G22-14	*
	ia.iip	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-90D21-24ERW

Red White

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.

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

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

the Pushbutton, Lamp, and Switch.

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

Square Models

(Single Screen)



(Single Screen)

(1)

Standard Loads

		Contact type		Standard load (250 V	AC, 3 A; 30 VDC, 4 A)		
		Operation	Momentary operat	ion (Self-resetting)	Alternate operati	ion (Self-holding)	Pushbutton
Output	Lighting	Case color	Black	Light gray	Black	Light gray	color symbol
		5 VDC	A3PA-90A11-05E(1)	A3PA-90A12-05E(1)	A3PA-90B11-05E(1)	A3PA-90B12-05E(1)	R
	LED	12 VDC	A3PA-90A11-12E(1)	A3PA-90A12-12E(1)	A3PA-90B11-12E(1)	A3PA-90B12-12E(1)	O G
		24 VDC	A3PA-90A11-24E(1)	A3PA-90A12-24E(1)	A3PA-90B11-24E(1)	A3PA-90B12-24E(1)	W
SPDT	6 11	12 VDC	A3PA-90AG1-12EK	A3PA-90AG2-12EK	A3PA-90BG1-12EK	A3PA-90BG2-12EK	*1
SPDI	Chameleon	24 VDC	A3PA-90AG1-24EK	A3PA-90AG2-24EK	A3PA-90BG1-24EK	A3PA-90BG2-24EK	- 1
	Incandescent lamp	6 VDC/VAC	A3PA-90A11-06	A3PA-90A12-06	A3PA-90B11-06	A3PA-90B12-06	
		14 VDC/VAC	A3PA-90A11-14	A3PA-90A12-14	A3PA-90B11-14	A3PA-90B12-14	*2
		28 VDC/VAC	A3PA-90A11-28	A3PA-90A12-28	A3PA-90B11-28	A3PA-90B12-28	
		5 VDC	A3PA-90C11-05E(1)	A3PA-90C12-05E(1)	A3PA-90D11-05E(1)	A3PA-90D12-05E(1)	R
	LED	12 VDC	A3PA-90C11-12E(1)	A3PA-90C12-12E(1)	A3PA-90D11-12E(1)	A3PA-90D12-12E(1)	0
		24 VDC	A3PA-90C11-24E(1)	A3PA-90C12-24E(1)	A3PA-90D11-24E(1)	A3PA-90D12-24E(1)	G W
DPDT	Ob	12 VDC	A3PA-90CG1-12EK	A3PA-90CG2-12EK	A3PA-90DG1-12EK	A3PA-90DG2-12EK	*1
DIDI	Chameleon	24 VDC	A3PA-90CG1-24EK	A3PA-90CG2-24EK	A3PA-90DG1-24EK	A3PA-90DG2-24EK	- "!
		6 VDC/VAC	A3PA-90C11-06	A3PA-90C12-06	A3PA-90D11-06	A3PA-90D12-06	
	Incandescent lamp	14 VDC/VAC	A3PA-90C11-14	A3PA-90C12-14	A3PA-90D11-14	A3PA-90D12-14	*2
	lallip	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

Contact type			Microload (125 VAC,	0.1 A; 30 VDC, 0.1 A)	
	Operation		Momentary operat	ion (Self-resetting)	Pushbutton
Output	Lighting	Case color	Black	Light gray	color symbol
		5 VDC	A3PA-90E11-05E(1)	A3PA-90E12-05E(1)	R
	LED	12 VDC	A3PA-90E11-12E(1)	A3PA-90E12-12E(1)	O G
		24 VDC	A3PA-90E11-24E(1)	A3PA-90E12-24E(1)	W
SPDT	Chameleon	12 VDC	A3PA-90EG1-12EK		*1
0. 5.	Cnameleon	24 VDC	A3PA-90EG1-24EK	A3PA-90EG2-24EK	'
	Incandescent lamp	6 VDC/VAC	A3PA-90E11-06	A3PA-90E12-06	
		14 VDC/VAC		A3PA-90E12-14	*2
	lamp	28 VDC/VAC	A3PA-90E11-28	A3PA-90E12-28	
		5 VDC			R
	LED	12 VDC	A3PA-90G11-12E(1)	A3PA-90G12-12E(1)	O G
		24 VDC	A3PA-90G11-24E(1)	A3PA-90G12-24E(1)	W
DPDT	Chameleon	12 VDC	A3PA-90GG1-12EK		*1
5.5.	Chameleon	24 VDC	A3PA-90GG1-24EK		'
		6 VDC/VAC	A3PA-90G11-06	A3PA-90G12-06	
	Incandescent lamp	14 VDC/VAC			*2
	/P	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.) ■ Specifications: Refer to page 15. ■ Dimensions: Refer to page 18.

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)



(Horizontal 2-split Screen)

Standard Loads

		Contact type		Standard load (250 VA	AC, 3 A; 30 VDC, 4 A)		
		Operation	Momentary operat	ion (Self-resetting)	Alternate operati	ion (Self-holding)	Pushbutton
Output	Lighting	Case color	Black	Light gray	Black	Light gray	color symbol
	LED	24 VDC	A3PA-90A21-24E(1)(2)	A3PA-90A22-24E(1)(2)	A3PA-90B21-24E(1)(2)	A3PA-90B22-24E(1)(2)	ROGW
SPDT	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	
	LED	24 VDC	A3PA-90C21-24E(1)(2)	A3PA-90C22-24E(1)(2)	A3PA-90D21-24E(1)(2)	A3PA-90D22-24E(1)(2)	ROGW
DPDT		6 VDC/VAC	A3PA-90C21-06	A3PA-90C22-06	A3PA-90D21-06	A3PA-90D22-06	
DFDI	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	1

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

Example:

Red Upper A3PA-90D21-24ERW White Lower Red White

Square Models



(Horizontal 2-split Screen)

Microloads

		Contact type	Microload (125 VAC,	0.1 A; 30 VDC, 0.1 A)		
		Operation	Momentary operat	ion (Self-resetting)	Pushbutton	
Output	Lighting	Case color	Black	Light gray	color symbol	
	LED	24 VDC	A3PA-90E21-24E(1)(2)	A3PA-90E22-24E(1)(2)	ROGW	
SPDT			6 VDC/VAC	A3PA-90E21-06	A3PA-90E22-06	
ЭРИ	Incandescent lamp	14 VDC/VAC	A3PA-90E21-14	A3PA-90E22-14	*	
		28 VDC/VAC	A3PA-90E21-28	A3PA-90E22-28		
	LED	24 VDC	A3PA-90G21-24E(1)(2)	A3PA-90G22-24E(1)(2)	ROGW	
DPDT		6 VDC/VAC	A3PA-90G21-06	A3PA-90G22-06		
וטפט	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 Upper A3PA-90D21-24ERW White Lower

Red White

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.

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

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

the Pushbutton, Lamp, and Switch.





Standard Loads

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



Microloads

Output	Lighting	Contact type Operation Case color	(Self-resetting)	Pushbutton color symbol
SPDT	LED	24 VDC	A3PT-90E12-24C(1)	ROGW
3201	Incandescent lamp	28 VDC/VAC	A3PT-90E12-28	*
DPDT	LED	24 VDC	A3PT-90G12-24C(1)	G W
וטייט	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-90E12-24CR

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.

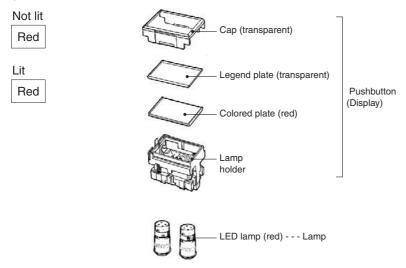
^{*} Incandescent lamps are supplied with a colored plates (white, red, green, blue, and orange). Use the appropriate combination. Models A3PT (round models), however, are not supplied with legend plates.

^{*} 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.

Illumination-only and Colored-illumination LED Models

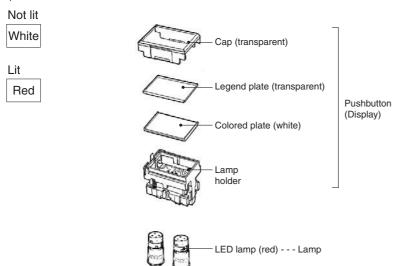
"Illumination only" describes LED models for which the screen color is the same whether the LED is lit or not. The screen simply becomes brighter when the LED lights.

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



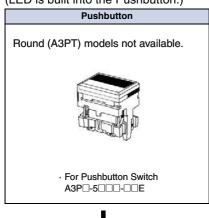
Ordering: With colored-illumination models, order the Pushbutton, Lamp, and Switch as shown in the following table.

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 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.

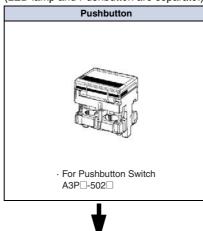
LED-lighted/Chameleon Models

(LED is built into the Pushbutton.)

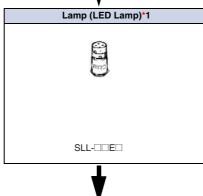


LED Lamp-lighted Models

(LED lamp and Pushbutton are separate.)

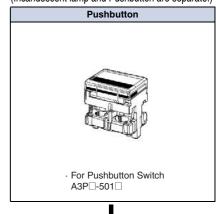






Incandescent Lamp-lighted Models

(Incandescent lamp and Pushbutton are separate.)





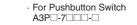


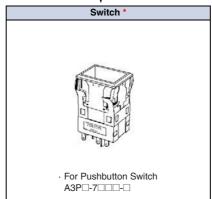
- SLL-Low-power lamp
- $SLL-\Box\Box H$

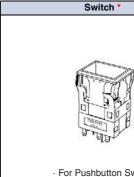


Round (A3PT) models not available.

Switch *







· For Pushbutton Switch A3P□-7□□□-□

*1. Number of necessary LED lamps.

Screen pattern	A3PJ	A3PA	A3PT		
Single screen		2	2		
Horizontal 2-split screen		2			
Vertical 2-split screen	4				
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		2	
Vertical 2-split screen	4 (low-power		
Vertical 3-split screen Horizontal 3-split screen	incandes- cent lamp)		
4-split screen	,,,		

Ordering set combinations: Refer to page 3 to 7.

■ Specifications: Refer to page 15. ■ Dimensions: Refer to page 18.

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

Ordering IndividuallyPushbuttons, 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 precau- tions	
	Single screen		A3PJ-5701 -□□E	A3PJ-5702 -□□E	A3PJ-5703 -□□E	A3PJ-5706 -□□E	Enter the voltage to	
Rectangular models		White	A3PJ-5711 -□□E	A3PJ-5712 -□□E	A3PJ-5713 -□□E	A3PJ-5716 -□□E	be used in the □□at the end of the mod-	
	Horizontal	Red	A3PJ-5721 -□□E	A3PJ-5722 -□□E	A3PJ-5723 -□□E	A3PJ-5726 -□□E	el number.	
	2-split screen	Green	A3PJ-5731 -□□E	A3PJ-5732 -□□E	A3PJ-5733 -□□E	A3PJ-5736 -□□E	Examples of voltages used:	
		Orange	A3PJ-5741 -□□E	A3PJ-5742 -□□E	A3PJ-5743 -□□E	A3PJ-5746 -□□E	5V=0151E 12V=1121E 24V=2141E	
	Single screen		A3PA-5701 -□□E	A3PA-5702 -□□E	A3PA-5703 -□□E	A3PA-5706 -□□E	Horizontal 2-split screen models sup-	
Square models	Horizontal 2-split screen	White	A3PA-5711 -□□E	A3PA-5712 -□□E	A3PA-5713 -□□E	A3PA-5716 -□□E	port only 24V. • For the color of the	
		Horizontal	Red	A3PA-5721 -□□E	A3PA-5722 -□□E	A3PA-5723 -□□E	A3PA-5726 -□□E	shaded part, select the model accord-
		Green	A3PA-5731 -□□E	A3PA-5732 -□□E	A3PA-5733 -□□E	A3PA-5736 -□□E	ing to the colors given at the top of	
		Orange	A3PA-5741 -□□E	A3PA-5742 -□□E	A3PA-5743 -□□E	A3PA-5746 -□□E	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.)

	Rectangul	ar models	Square me	odels	Round mo	odels									
Appearance									Selec	tion pre	ecautio	ons			
Screen pattern	Screen	Model	Screen	Model	Screen	Model									
Single screen		A3PJ-5021		A3PA-5021		A3PT-5021	-5021 - Parts included: Colored plates (white, red, green, a ange), a legend plate (transparent), light baffle (split-screen models only			rent), a s only)	and a) are in-				
Horizontal 2- split screen		A3PJ-5022		A3PA-5022			 cluded. Use the appropriate combination for the LED coloring required. The number of white colored plates required to enable colored illumination for the corre- sponding screen-split configuration is included. 								
Vertical 2-split screen		A3PJ-5023					ed. (For exampl include 4 white The number of comodel are shown	e, 4-spl colored olored p	it scree plates) lates in	en mod). cluded	els for each				
Horizontal 3-split							Screen pattern	White	Red	Green	Orange				
screen		A3PJ-5024									Single screen	1	1	1	1
Vertical 3-split		A3PJ-5025		_			Horizontal 2- split screens Vertical 2-split screens	2	1	1	1				
4-split screen		A3PJ-5026					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.

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. *A3PT (round) models do not contain a legend plate.				white),		
Horizontal 2- split screen		A3PJ-5012		A3PA-5012							te.		
Vertical 2-split screen		A3PJ-5013						The number of colored plates included is shown in the following table. Screen pattern White Red Green Orange Blue					
Horizontal 3-split screen		A3PJ-5014					Single screen Horizontal 2- split screens Vertical 2-split	1	1	1	1	1	
Vertical 3-split screen		A3PJ-5015					screens Horizontal 3-						
4-split screen		A3PJ-5016					split screens Vertical 3-split screens 4-split screen	2	2	2	2	2	
							4-spiit 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).

Ordering set combinations: Refer to page 3 to 7.

■ Specifications: Refer to page 15. ■ Dimensions: Refer to page 18.

П	П

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

Ordering IndividuallyPushbuttons, 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

Pushbutton (For information on mounting, refer to page 25.)

LED Lamp

Voltage	5 VDC	5 VDC 12 VDC 24 VDC		Applicable cap (color)	Selection precautions
Color	Model (DC only)	Model (DC only)	Model (DC only)	(colored plate)	Selection precautions
Red	SLL-05ER	SLL-12ER	SLL-24ER	Red	
Yellow	SLL-05EY	SLL-12EY	SLL-24EY	Orange	In the standard setup, 4 LED lamps are used with A3PJ models and 2 LED lamps are
Green	SLL-05EG	SLL-12EG	SLL-24EG	Green	used with A3PA and A3PT models.
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.
12 VAC/VDC	SLL-14	SLL-14H	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
24 VAC/VDC	SLL-28	SLL-28H	 screen models, and 2 lamps are used with split-screen models. In the standard setup for A3PT models, 2 lamps are used.

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

				Rectangular models	Square models	Round models	
			Appearance				Selection precautions
	Contact type	Switch Number of outputs	Operation	Model	Model	Model	
		1	Momentary operation	A3PJ-7010-1	A3PA-7010-1	A3PT-7010-2	The end digit denotes the color of the flange: -1
ad		•	Alternate operation	A3PJ-7020-1	A3PA-7020-1	A3PT-7020-2	denotes a black flange, and -2 denotes a light
Standard load	Silver alloy	Alternate op Momentary	Momentary operation	A3PJ-7030-1	A3PA-7030-1	A3PT-7030-2	gray flange. Round switches are available
anda	contact		Alternate operation	A3PJ-7040-1	A3PA-7040-1	A3PT-7040-2	only in light gray, and not in black.
ž			Momentary operation	A3PJ-7150-1			Use the Switch in combi- nation with the same
			Alternate operation	A3PJ-7160-1			shape Lamp (rectangu- lar, square or round).
		1	Momentary operation	A3PJ-7050-1	A3PA-7050-1	A3PT-7050-2	Example: For rectangular Lamp A3PJ-5011, select
		•	Alternate operation	A3PJ-7060-1	A3PA-7060-1	A3PT-7060-2	Switch A3PJ-7□□0-□. On the Switch itself, how-
oload	Gold alloy	2	Momentary operation	A3PJ-7070-1	A3PA-7070-1	A3PT-7070-2	ever, only 3 digits are shown, as follows:
Microload	contact	2	Alternate operation	A3PJ-7080-1	A3PA-7080-1	A3PT-7080-2	A3PJ-7□□. • Momentary operation is
		3	Momentary operation	A3PJ-7170-1			self-resetting, and alter- nate operation is self-
		3	Alternate operation	A3PJ-7180-1			holding (i.e., push-on, push-off).

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.

Accessories, Replacements, and Tools Accessories

Name	Appearance	Classification		Rectangular	Square	Application precautions	
		Wire-wrap term	ninal	A3PJ-4101	A3PA-4101	The Socket cannot be used	
Socket		PCB terminal		A3PJ-4102	A3PA-4102	with when mounting multi- ple Switches or with 3C	
	Mahala	Solder termina	ı	A3PJ-4103	A3PA-4103	models.	
		Short edge barrier (Hori-	Black	A3PJ-4001	A3PA-4001		
		zontal mount- ing) (1 pair)	Light gray	A3PJ-4002	A3PA-4002	The purpose of the barrier is to prevent malfunction-	
		Long edge barrier (Verti-	Black	A3PJ-4004		ing and to improve design image of the mounting	
Barrier		cal mounting) (1 pair)	Light gray	A3PJ-4005		panel. Intermediate barrier × 1. Edge barriers × 1 pair (2 Units).	
·		Short inter- mediate barri-	Black	A3PJ-4007	A3PA-4007	Mount short barriers horizontally.	
		er (Horizontal mounting)	Light gray	A3PJ-4008	A3PA-4008	Mount long barriers vertically.	
	Ī	Long interme- diate barrier	Black	A3PJ-4010		For details on mounting, refer to page 25.	
		(Vertical mounting)	Light gray	A3PJ-4011			
	For horizontal OMRON logo		mounting (with acing down)	A3PJN-5050	A3PAN-5050	 Can be used by exchanging with the cap. Cannot be used with seal cover. Can be used with barrier. 	
Switch guard		For vertical mo OMRON logo f right)		A3PJN-5055	A3PAN-5055	Use horizontal mounting guard for consecutive hori- zontal mounting, and use vertical mounting guard for consecutive vertical mounting.	
Seal cover				A3PJ-5060	A3PA-5060	 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		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.	

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Accessories

Name	Appearances	Classific	ation	A3PJ	A3PA	Application precautions	
			White	A3PJ-5101	A3PA-5101		
		Single screen	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		
		Harizantal O	White	A3PJ-5121	A3PA-5121		
		Horizontal 2- split screen	Red	A3PJ-5122	A3PA-5122		
		opiit ooreen	Green	A3PJ-5123	A3PA-5123		
			Blue	A3PJ-5124	A3PA-5124	Keep mounted at all times.	
Calarad plata			Yellow	A3PJ-5125	A3PA-5125	Contact your OMRON repre-	
Colored plate for incandes-			Orange	A3PJ-5126	A3PA-5126	sentative for color changes	
cent lamp		Vertical 2-split	White	A3PJ-5131		or other specifications.	
	4	screen	Red	A3PJ-5132		• For details on mounting, refer	
		0010011	Green	A3PJ-5133		to page 25.	
			Blue	A3PJ-5134			
			Yellow				
			Orange	A3PJ-5136			
			White	A3PJ-5161			
		4-split screen	Red	A3PJ-5162			
			Green	A3PJ-5163			
			Blue				
		ļi	Yellow	A3PJ-5165			
			Orange	A3PJ-5166			
		Single screen	White	A3PJ-5301	A3PA-5301		
		anight concern	Red	A3PJ-5302	A3PA-5302		
			Green	A3PJ-5303	A3PA-5303		
			Yellow	A3PJ-5305	A3PA-5305		
			Orange	A3PJ-5306	A3PA-5306		
		Horizontal 2-	White	A3PJ-5321	A3PA-5321	Keep mounted at all times. If the colored plate is lost or	
		split screen	Red	A3PJ-5322	A3PA-5322		
			Green	A3PJ-5323	A3PA-5323		
O alla marel milata	^		Yellow	A3PJ-5325	A3PA-5325 A3PA-5326	damaged, contact OMRON.	
Colored plate for LED		1	Orange White	A3PJ-5326 A3PJ-5331	A3PA-3320	Use in accordance with color- ing of the built-in LED. For details on mounting, refer	
IOI LLD		Vertical 2-split screen	Red	A3PJ-5332			
			Green	A3PJ-5333			
			Yellow	A3PJ-5335		to page 25.	
			Orange	A3PJ-5336		_	
			White	A3PJ-5361			
		4-split screen	Red	A3PJ-5362			
			Green	A3PJ-5363		_	
			Yellow	A3PJ-5365			
		ļi	Orange	A3PJ-5366			
-		Horizontal 2-spli	_	A3PJ-4302	A3PA-4302		
		Vertical 2-split so		A3PJ-4303			
		Horizontal 3-	Long axis	A3PJ-4304		• Keep mounted at all times. If the light baffle is lost, con-	
	\sim	split screen	Short axis	A3PJ-4305		tact OMRON.	
Light baffle	4	Vertical 3-split	Long axis	A3PJ-4306		Used in LED lamp-lighted	
	V-3	screen	Short axis	A3PJ-4307		models. Cannot be used in	
		4	Long axis	A3PJ-4304		LED-lighted models.	
		4-split screen	Short axis	A3PJ-4308			
		Transparent lege	end plate	A3PJ-5202	A3PA-5202	- A transport language in late in	
Legend plate					A2DA 5001	A transparent legend plate is mounted on the Pushbutton.	
		Milk-white legen	•	A3PJ-5201	A3PA-5201		
0		Transparent cap		A3PJ-5600	A3PA-5600		
Сар		Crimp-processed ent cap	d transpar-	A3PJ-5600-A	A3PA-5600-A	The surface is crimp-processed, so there is no reflection.	

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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

0.1 A at 125 VAC Microload:

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)

3 A at 250 VAC Standard Load:

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	Non-inductive load (A)				Inductive load (A)			
voltage	Resistive load		Lamp load		Inductive load		Motor load	
(V)	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC 250 VAC	5 3		0.7 0.5		3 2		1.3 0.8	
8 VDC 14 VDC 30 VDC 125 VDC 250 VDC	5 5 4 0. 0.		2 2 2 0.0 0.0		4 4 3 0.		3 3 0.0 0.0	

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)

	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	
		Rated current		Rated	current
Applied voltage	Rated voltage	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		
Applied voltage	nateu voitage	Green	Red	
12 VDC±5%	12 VDC	26 mA	20 mA	
24 VDC±5%	24 VDC	13 mA	10 mA	

Incandescent Lamp

	Item	Standard	l 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
	5 VDC±5%	5 VDC	30 mA	SLL-05E□
DC only	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.		
		100 MΩ min. (at 500 VDC)			
Contact resistance Standard load Microload			40 mΩ max. (initial value)		
			40 mΩ max. (initial value)		
	Between terminals of	of same polarity	1,000 VAC, 50/60 Hz for 1 minute *2		
	Between terminals of	of different polarity	2,000 VAC, 50/60 Hz for 1 minute		
Dielectric strength	Between current- part and ground	carrying metal	2,000 VAC, 50/60 Hz for 1 minute		
on ong	Between each ter non-current-carry	ying metal part	2,000 VAC, 50/60 Hz for 1 minute		
	Between lamp te	rminals	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 re	eietanca	Destruction	500 m/s ² max.		
SHOCKIE	Sistance	Malfunction	200 m/s ² max. (1 ms max.)		
Life expe	ctancy	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 cu	ırrant	NC	Silver contact: 10 A max.		
iiii usii cu	ii i Giit	NO	Silver contact: 10 A max.		
Ambient	operating tempera	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					

erations/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.

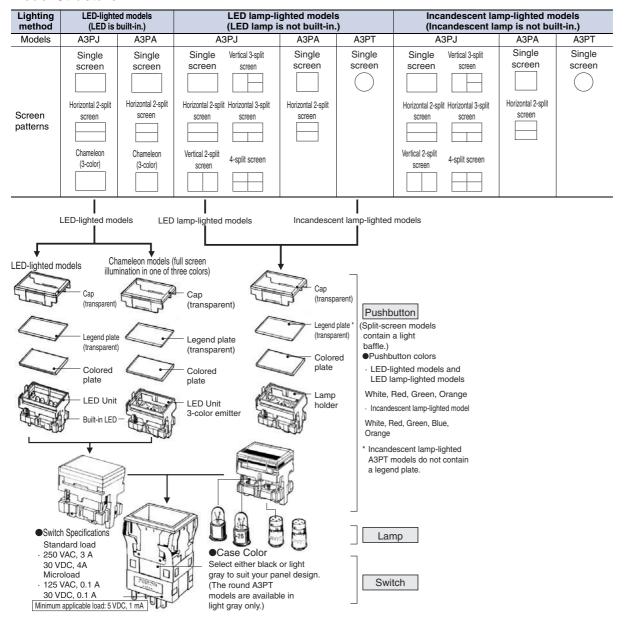
Specifications

Operating Characteristics

	Model	A3PJ series		A3PA series		A3PT series	
Operating Characteristics		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					
Pretravel	PT max.	3 mm					
Lock travel alternate	LTA min.		0.5 mm		0.5 mm		0.5 mm

Nomenclature

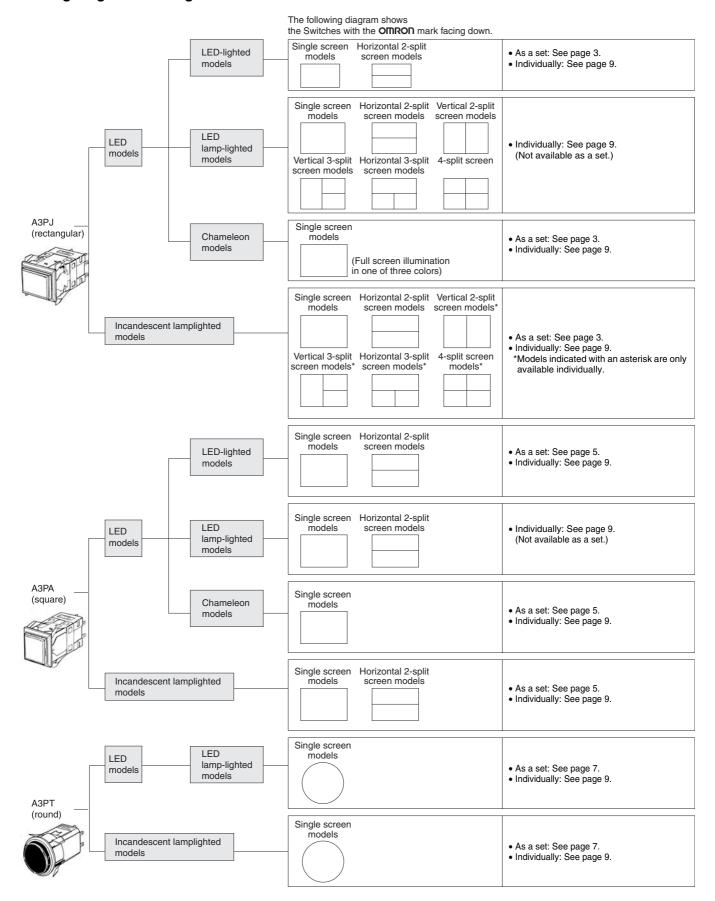
Model Structure



OMRON

Nomenclature

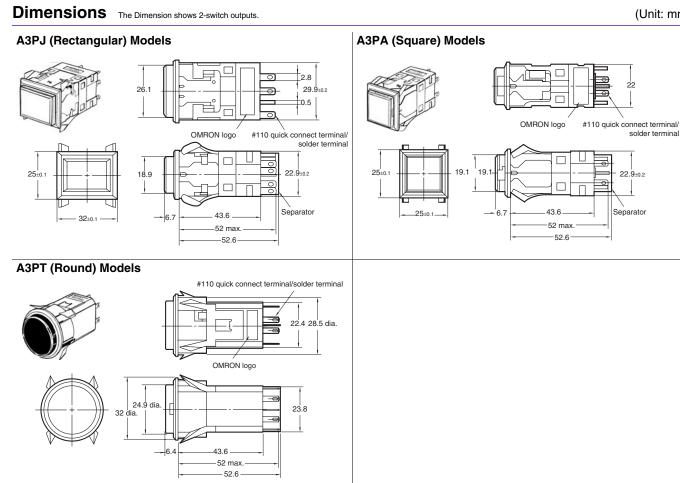
A3P Lighting Method Diagram



OMRON 17

(Unit: mm)

22.9±0.2



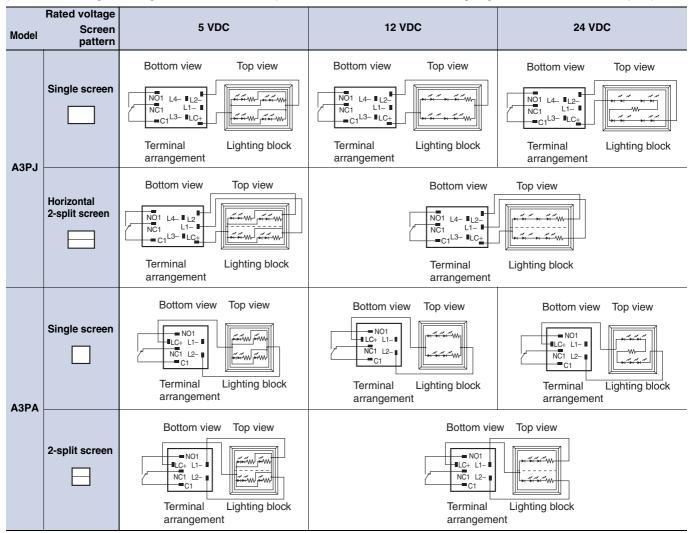
Note: The thickness of tab terminals #110 and solder terminals is 0.5 mm.

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.)



Dimensions (Unit: mm)

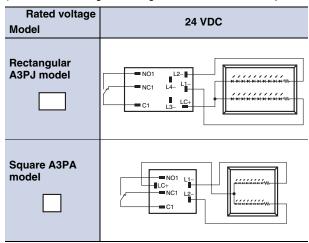
Incandescent Lamp-lighted/LED Lamp-lighted Models

(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	Bottom view Top view Terminal Lighting block	Bottom view Top view Indicate Indicate	Bottom view Top view Top view Terminal Lighting block
PPDT	Bottom view Top view Terminal Lighting block arrangement	Bottom view Top view Terminal Lighting block arrangement	Bottom view Top view Terminal Lighting block arrangement
3PDT	Bottom view Top view Terminal Lighting block arrangement		

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.)



Terminal Arrangement and Coloring

Chameleon Models

	LC+	LC+	LC+
Wiring	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)	25±0.1	30.5±0.3	Panel cutout spacing between rows of Units:	
	Multiple mounting (Horizontal)	25±0.1 1 2 n	32n-1.5±0.3		
	Individual mounting (Vertical)	Mount to long mounting plate (A3PJ-3002) before use.	23.5±0.3 30.5±0.3 i		
	Multiple mounting (Vertical)	Mount to long mounting plate (A3PJ-3002) before use.	30.5 0.3		
Barrier mount models	Individual mounting (Horizontal)	27	36.4±0.3 23.5±0.3		
	Multiple mounting (Horizontal)	27 1 2 n	32.9n+3.5±0.3 23.5±0.3	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	
	Individual mounting (Horizontal)	Mount to long mounting plate (A3PJ-3002) before use.	30.5±0.3	1.3 - 6 min. 6 min.	
	Multiple mounting (Vertical)	Mount to long mounting plate (A3PJ-3002) before use.	30.5 ^{±0.3}		

Note: 1. n: Number of Units

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

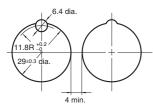
A3PA (Square) Models

Classification		Mounting design	Panel cutout	Remarks
Flange mount models	Individual mounting	25=0.1	23.5±0.3	Panel cutout spacing between rows of Units:
	Multiple mounting	25±0.1 1 2 n	23.5±0.3 25n-2.5±0.3	
Barrier mount models	Individual mounting	27	23.5±0.3	Panel cutout spacing between rows of Units: (Dotted line indicates the position of each mounting barrier.) 1.3 — — — 6 min.
	Multiple mounting	27 1 2 n	23.5±0.3 ——26n+2.5±0.3 ——	6 min. T

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

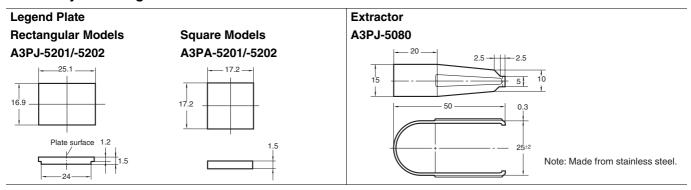


Note: 1. Recommended panel thickness: 1 to 5 mm

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)

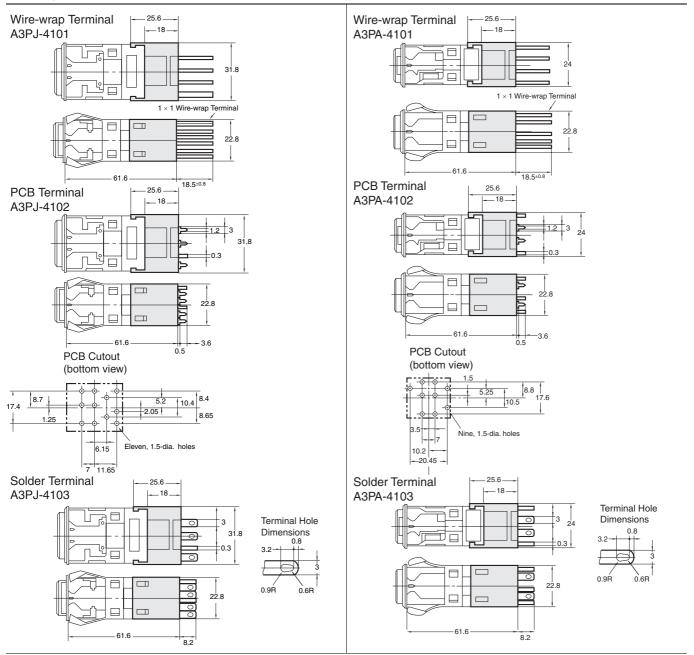
Accessory Mounting Dimensions



Socket-mounting Dimensions

Rectangular Models A3PJ (M2PJ)

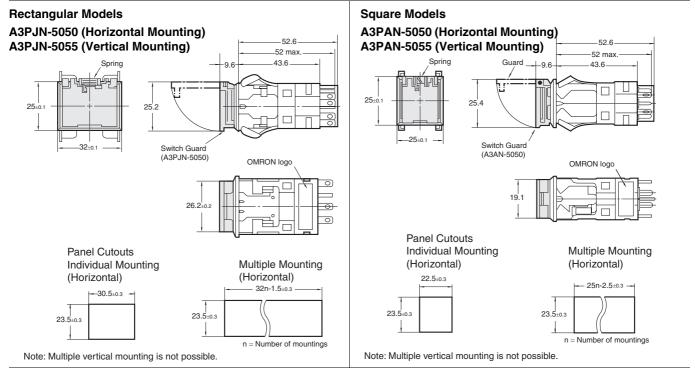
Square Models A3PA (M2PA)



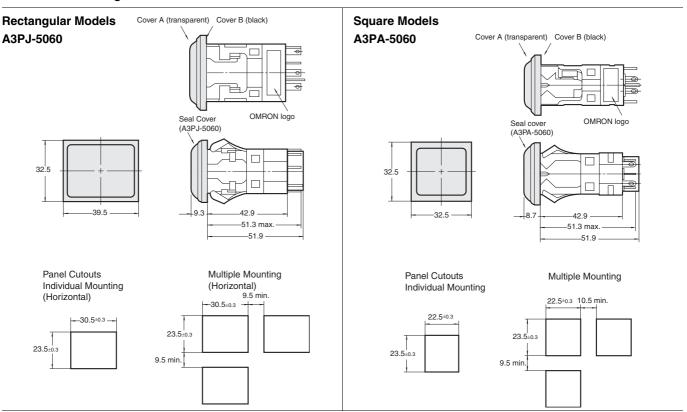
 ${\it Note: PCB cutout dimensions show the switch mounted to the socket with the OMRON logo facing down.}$

Dimensions (Unit: mm)

Switch and Guard Mounting Dimensions



Seal Cover Mounting Dimensions



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

2. Unless otherwise specified, a tolerance of \pm 0.4 mm applies to all dimensions.

Safety Precautions

Refer to Safety Precautions for all Pushbutton Switches/Indicators.

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

- 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.
- 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)

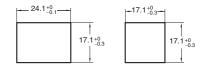
- Check the terminal polarity when wiring.
- The rated voltage is shown on the plate on the back of the lighting unit, so be sure to use within the voltage shown.
- An LED current-limiting resistor is built in, so there is no need to mount an external resistor.

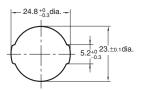
Incandescent Lamp

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

Character Plate (Character Film)

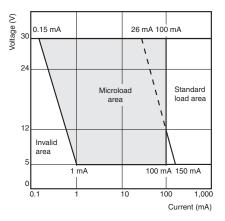
• If preparing the character plate separately, use a heat-resistant film with a thickness of 0.1 to 0.3 mm.





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%.



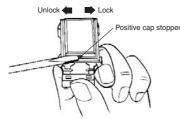
Others

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

Assembly/Disassembly

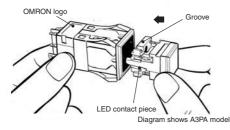
A3PJ/M2PJ (Rectangular Models), A3PA/M2PA (Square Models)

Locking/Unlocking Positive Cap Lock Mechanism



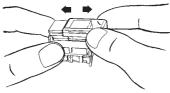
Mounting Pushbutton

- 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

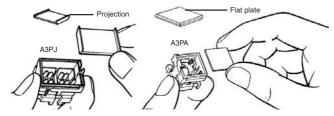
Insert the A3PA from the open side into the theft-prevention stopper.



Mounting Colored Plate

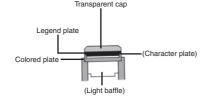
Place the colored plate on the plunger case with the dull side of the colored plate facing downward.

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.



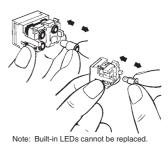
Mounting Character Plate (Character Frame) and Legend Plate

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



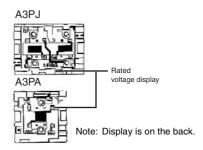
Mounting and Replacing LED and Incandescent Lamps

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



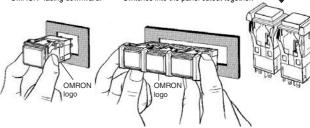
LED Rated Voltage Display (LED Models Only)

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%.



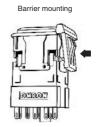
Mounting Switch onto Panel

 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.



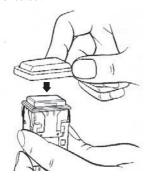
Mounting Barriers

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



Mounting Seal Cover

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

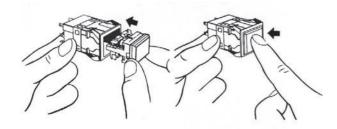


Inscribing the Legend Plate

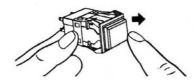
- Inscribe the legend plate to a depth of 0.5 mm max.
- The legend plate is made from polycarbonate resin. To coat the legend plate, use an alcohol-based coating such as melamine, phthalic acid, or acrylic.

Maintenance Lock

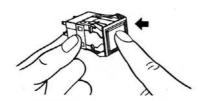
 First, when you insert the transparent lens while pressing the center, the maintenance lock mechanism will be activated, and the Switch will not operate. Lamp replacement and other maintenance can be performed without turning OFF the power supply to devices and equipment. Use an insertion force of 4 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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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: http://oceanchips.ru/

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А