CSM_A3P_DS_E_5_1

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 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.

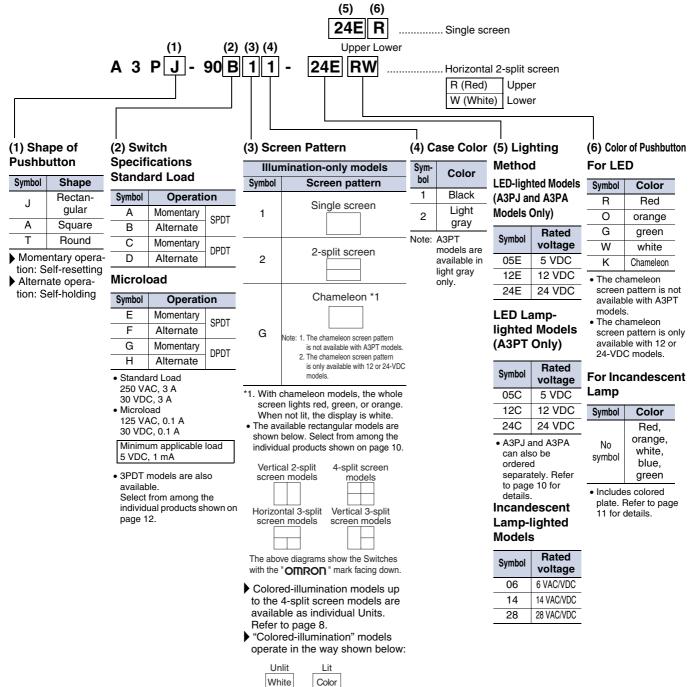
Note: The A3PJ is shown in the figure above as an example.

- 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.

OMRON

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	built in LED	2
Horizontal 2-split screen	Widdels Willi	bullt-iii LLD	
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 VAC, 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 G
		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	et 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	*			
		lamp	lamp	lap	lamp	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	Incandescent	6 VDC/VAC	A3PJ-90E21-06	A3PJ-90E22-06	
SPDI		lamp 1	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	
	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	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
	lamp	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	Momentary operation (Self-resetting)	
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.	Chameleon	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	t 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	24 VDC	A3PA-90A21-24E(1)(2)	A3PA-90A22-24E(1)(2)	A3PA-90B21-24E(1)(2)	A3PA-90B22-24E(1)(2)	ROGW
SPDT		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	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	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		
		Incandescent lamp	14 VDC/VAC	A3PT-90A12-14		*
			28 VDC/VAC	A3PT-90A12-28	A3PT-90B12-28	
	LED	24 VDC	A3PT-90C12-24C(1)	A3PT-90D12-24C(1)	ROGW	
DPDT		6 VDC/VAC	A3PT-90C12-06	A3PT-90D12-06		
	Incandescent lamp	14 VDC/VAC	A3PT-90C12-14	A3PT-90D12-14	*	
		28 VDC/VAC	A3PT-90C12-28	A3PT-90D12-28	1	

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

Example: (Red) A3PT-90A12-24CR



(Single Screen)



Microloads

Outpu	ıt Lighting	Contact type Operation Case color	(Seif-resetting)	Pushbutton color symbol
SPD	LED	24 VDC	A3PT-90E12-24C(1)	ROGW
SFD	Incandescent lamp	28 VDC/VAC	A3PT-90E12-28	*
DPD.	LED	24 VDC	A3PT-90G12-24C(1)	G W
DPD	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.

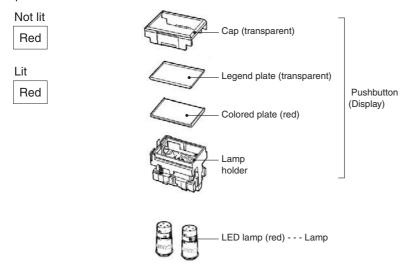
^{*} Incandescent lamps are supplied with a colored plates (white, red, green, blue, and orange). Use the appropriate combination. Models A3PT (round models), however, are not supplied with legend plates.

^{*} 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

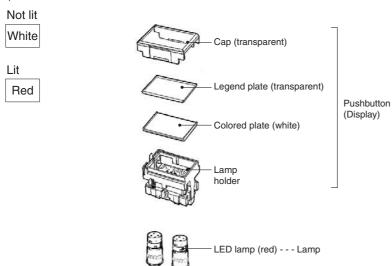
"Illumination only" describes LED models for which the screen color is the same whether the LED is lit or not. The screen simply becomes brighter when the LED lights.

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



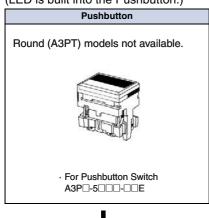
Ordering: With colored-illumination models, order the Pushbutton, Lamp, and Switch as shown in the following table.

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.

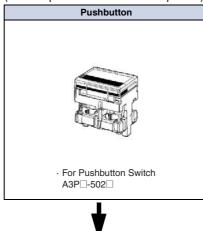
LED-lighted/Chameleon Models

(LED is built into the Pushbutton.)

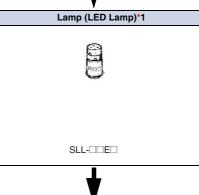


LED Lamp-lighted Models

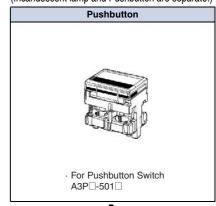
(LED lamp and Pushbutton are separate.)







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





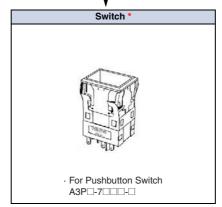


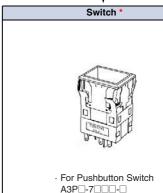
- Standard lamp SLL-
- Low-power lamp $SLL-\Box\Box H$



Switch * Round (A3PT) models not available.







^{*} 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		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	17		

Ordering set combinations: Refer to page 3 to 7.

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

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-scree (color sy		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		White	A3PA-5711 -□□E	A3PA-5712 -□□E	A3PA-5713 -□□E	A3PA-5716 -□□E	port only 24V. • For the color of the
	Horizontal 2-split screen	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.

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

	Rectangul	ar models	Square models Round models		Round mo	odels					
Appearance					Selection precautions						
Screen pattern	Screen	Model	Screen	Model	Screen Model						
Single screen		A3PJ-5021		A3PA-5021		A3PT-5021	Parts included: Colored plates (ange), a legend light baffle (split	plate (t -screen	ranspa model	rent), a s only)	and a are in-
Horizontal 2- split screen		A3PJ-5022		A3PA-5022		_	 the LED coloring The number of voto enable colored 	g requir white co ed illumi	appropriate combination for required. rhite colored plates required d illumination for the corre- -split configuration is includ-		equired corre-
Vertical 2-split screen		A3PJ-5023	ed. (Foreinclude 4			ed. (For examplinclude 4 white) The number of co	example, 4-split screen models 4 white colored plates). The property of colored plates included for each re shown in the following table.				
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.

^{3.} The LED is built-in and cannot be replaced individually.

Pushbutton

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

	Rectange	Rectangular models Square mode		nodels	Round m	nodels						
Appearance	Appearance Control Con			Selection precautions								
Screen pattern	Screen	Model	Screen	Model	Screen	Model						
Single screen		A3PJ-5011		A3PA-5011	Parts included: Colored plates (white, red, green, orange, an blue), legend plates (transparent and milk wh				white),			
Horizontal 2- split screen		A3PJ-5012		A3PA-5012			and a light baffle (split-screen models only) are supplied. * A3PT (round) models do not contain a legend plate.					
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				
							Single screen	1	1	1	1	1
Horizontal 3-split screen		A3PJ-5014					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	2	2	2	2	2
	A3F3-3016					4-split screen	2	2	2	2	2	

Chameleon Models (with Built-in LED)

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

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

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.

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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	Voltage 5 VDC Model (DC only)		age 5 VDC 12 VDC 24 VDC		24 VDC	Applicable cap (color)	Selection precautions
Color			Model (DC only) Model (DC only)		Colconon predictions		
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	
pg	Silver alloy contact		•	Alternate operation	A3PJ-7020-1	A3PA-7020-1	A3PT-7020-2	denotes a black flange, and -2 denotes a light
Standard load		3	Momentary operation	A3PJ-7030-1	A3PA-7030-1	A3PT-7030-2	gray flange. Round switches are available	
anda			Alternate operation	A3PJ-7040-1	A3PA-7040-1	A3PT-7040-2	only in light gray, and not in black.	
ž			2	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-	
load	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	Classif	ication	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
	بالماء	Solder termina	I	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 mounting (with OMRON logo facing down) For vertical mounting (with OMRON logo facing to the right)		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				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		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	7	
			Yellow	A3PJ-5105	A3PA-5105	†	
			Orange	A3PJ-5106	A3PA-5106	7	
			White	A3PJ-5121	A3PA-5121	-	
		Horizontal 2-	Red	A3PJ-5122	A3PA-5122	+	
		split screen	Green	A3PJ-5123	A3PA-5123	+	
			Blue	A3PJ-5124	A3PA-5124	 	
			Yellow	A3PJ-5125	A3PA-5125	Keep mounted at all times.	
Colored plate	^	L	Orange	A3PJ-5126	A3PA-5126	 Contact your OMRON repre sentative for color changes 	
for incandes-			White	A3PJ-5131	A0FA-3120	or other specifications.	
cent lamp		Vertical 2-split	Red			For details on mounting, refer	
		screen		A3PJ-5132		to page 25.	
			Green	A3PJ-5133		-	
			Blue	A3PJ-5134		_	
			Yellow				
			Orange	A3PJ-5136			
			White	A3PJ-5161			
		4-split screen	Red	A3PJ-5162			
			Green	A3PJ-5163			
			Blue				
			Yellow	A3PJ-5165			
			Orange	A3PJ-5166			
			0: 1	White	A3PJ-5301	A3PA-5301	
		Single screen	Red	A3PJ-5302	A3PA-5302	7	
			Green	A3PJ-5303	A3PA-5303	7	
			Yellow	A3PJ-5305	A3PA-5305	-	
			Orange	A3PJ-5306	A3PA-5306	+	
		Horizontal 2-	White	A3PJ-5321	A3PA-5321	+	
		split screen	Red	A3PJ-5322	A3PA-5322	- 	
	\Diamond	opiit dolocii	Green	A3PJ-5323	A3PA-5323	Keep mounted at all times.	
			Yellow	A3PJ-5325	A3PA-5325	If the colored plate is lost of damaged, contact OMROI • Use in accordance with coloring of the built-in LED. • For details on mounting, reference.	
Onlawad wlata		Water 10 and	Orange	A3PJ-5326	A3PA-5326		
Colored plate for LED			White		A3PA-3320		
IOI LED		Vertical 2-split		A3PJ-5331			
		screen	Red	A3PJ-5332			
			Green	A3PJ-5333		to page 25.	
			Yellow	A3PJ-5335			
			Orange	A3PJ-5336			
			4-split screen	White	A3PJ-5361		
		1 opin coroon	Red	A3PJ-5362			
			Green	A3PJ-5363			
			Yellow	A3PJ-5365			
		11	Orange	A3PJ-5366			
		Horizontal 2-spli	t screen	A3PJ-4302	A3PA-4302		
		Vertical 2-split se	creen	A3PJ-4303		Keep mounted at all times.	
		Horizontal 3-	Long axis	A3PJ-4304		If the light baffle is lost, con-	
Light baffle	1	split screen	Short axis	A3PJ-4305		tact OMRON.	
Light baille	Y	Vertical 3-split	Long axis	A3PJ-4306		Used in LED lamp-lighted	
	V ~	screen	Short axis	A3PJ-4307		models. Cannot be used in	
			Long axis	A3PJ-4304		LED-lighted models.	
		4-split screen	Short axis	A3PJ-4308		7	
		Transparent lege		A3PJ-5202	A3PA-5202		
Legend plate		riansparentiege	ond plate	AUF U-JZUZ	AUF A-3202	A transparent legend plate is	
3 - F		Milk-white legen	d plate	A3PJ-5201	A3PA-5201	mounted on the Pushbutton	
		Transparent cap	,	A3PJ-5600	A3PA-5600		
Сар		Crimp-processe		A3PJ-5600-A	A3PA-5600-A	The surface is crimp-pro- cessed, so there is no reflect	

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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

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 Non-inductive			ve 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	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	0.0	5	0.	.4	0.0	5
250 VDC	0.	.2	0.0	3	0.	.2	0.0	3

Note: 1. The above values are for steady-state currents.

- 2. Inductive load: Power factor = 0.4; time constant = 7 ms.
 3. The lamp load has an inrush current of 10 times the steady-state current.
- 4. The motor load has an inrush current of 6 times the steady-state current.
- Standard testing condition (1) Ambient temperature: 20 $\pm\,2^{\circ}\text{C}$
- (2) Ambient humidity: $65 \pm 5\%$ 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 2-split screen 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	Tiated Voltage	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	g frequency	Mechanical	120 operations/minute max. *1
Operating	y irequericy	Electrical	30 operations/minute max.
Insulation resistance		100 MΩ min. (at 500 VDC)	
	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-car ground	rrying metal part and	2,000 VAC, 50/60 Hz for 1 minute
outingui	Between each term non-current-carrying		2,000 VAC, 50/60 Hz for 1 minute
	Between lamp to	erminals	1,000 VAC, 50/60 Hz for 1 minute *3
Vibration	resistance	Malfunction	10 to 55 Hz, 1.5 mm double amplitude
Shock re	alatanaa	Destruction	500 m/s ²
SHOCK TE	sistance	Malfunction	200 m/s ²
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 cu	uuamt	NC	Silver contact: 10 A max.
ilirusii cu	irrent	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 humidi	ty	35% to 85%RH
	storage temperat	ure	-25°C to 65°C
Degree o	f protection		IP40
Electric shock protection class		Class II	
PTI (proc	f tracking index)		175
Pollution	degree		3 (IEC947-5-1)
*1. With a	Iternate operation	models, 60 opera	ations/minute max. One operation

With alternate operation models, so operations/min-cycle consists of set and reset operations.
 *2. 600 VAC for microloads.
 *3. With no incandescent lamp or LED lamp mounted.

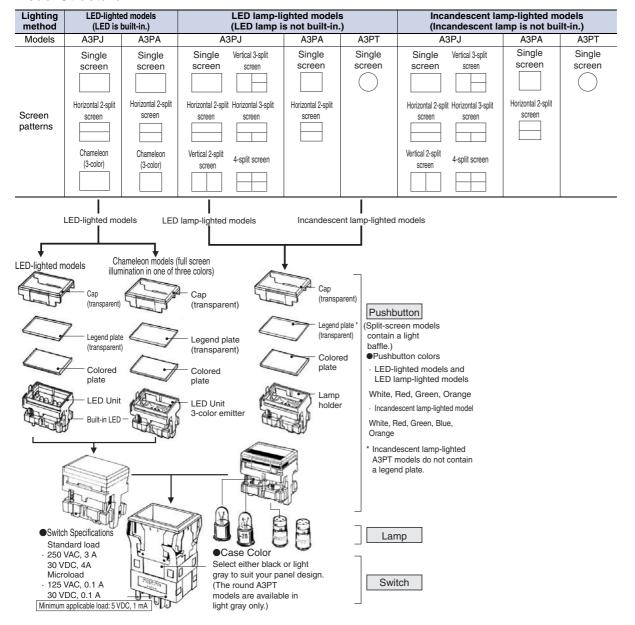
Specifications

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

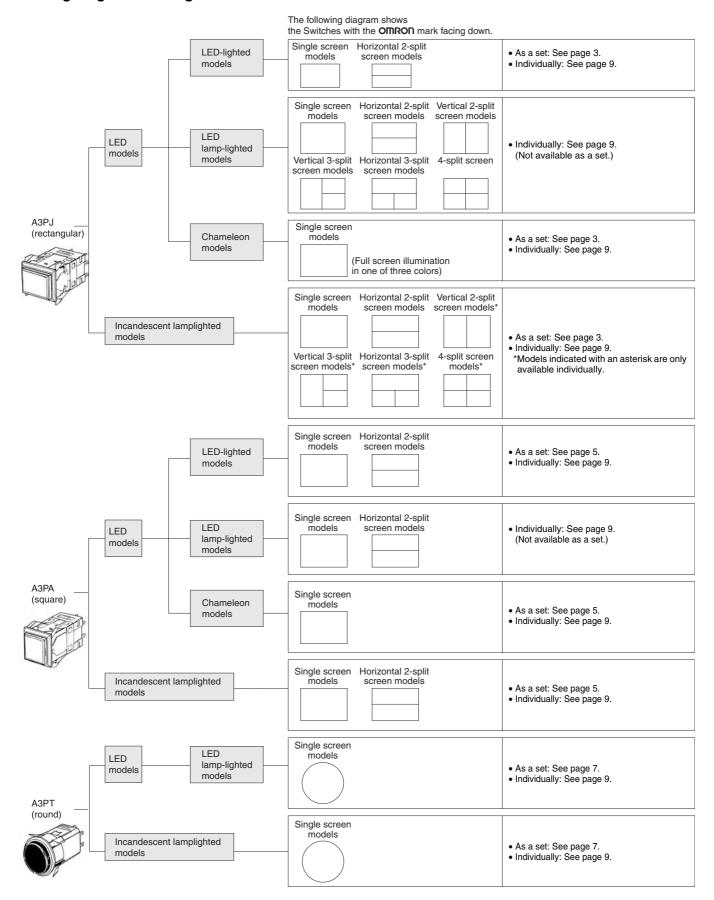
Model Structure



OMRON

Nomenclature

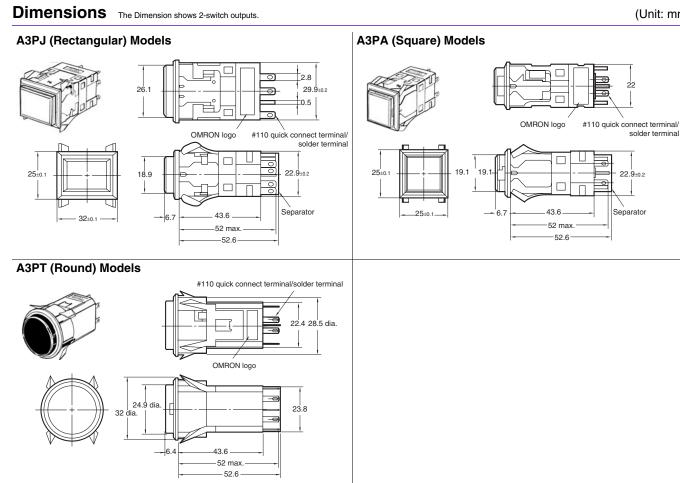
A3P Lighting Method Diagram



OMRON 17

(Unit: mm)

22.9±0.2



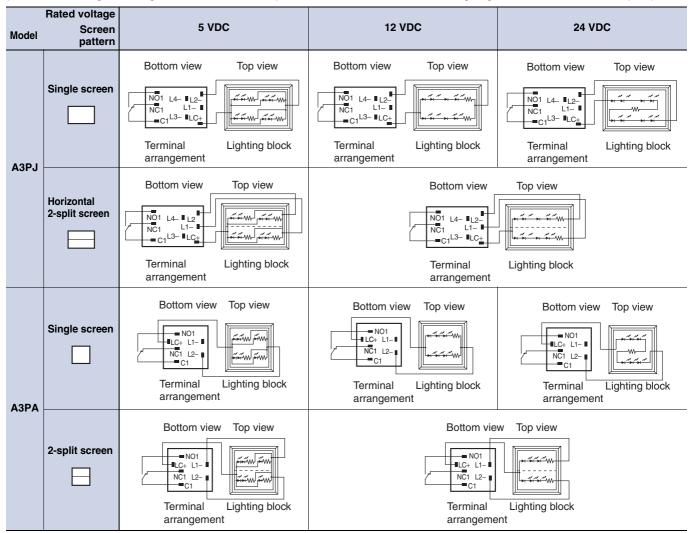
Note: The thickness of tab terminals #110 and solder terminals is 0.5 mm.

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)

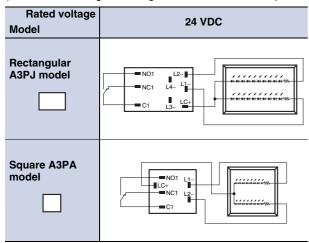
Incandescent Lamp-lighted/LED Lamp-lighted Models

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

Model Type	Rectangular A3PJ models	Square A3PA models	Round A3PT models
Silver/gold alloy contacts (1 output)	Bottom view Top view Terminal Lighting block arrangement	Bottom view Top view Top view Terminal Lighting block arrangement	Bottom view Top view Top view Terminal Lighting block arrangement
Silver/gold alloy contacts (2 outputs)	Bottom view Top view Terminal Lighting block arrangement	Bottom view Top view Terminal Lighting block arrangement	Bottom view Top view Terminal Lighting block arrangement
Silver/gold alloy contacts (3 outputs)	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	For barrier mount models, refer to Accessories on page 13. Panel cutout spacing between rows of Units: (Dotted line indicates the position of each mounting barrier.)
	Multiple mounting (Horizontal)	27 1 2 n	32.9n+3.5±0.3 23.5±0.3	
	Individual mounting (Horizontal)	Mount to long mounting plate (A3PJ-3002) before use.	30.5±0.3	
	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.

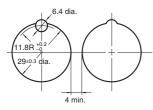
A3PA (Square) Models

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	6 min.
Barrier mount models	Individual mounting	2732	23.5±0.3 27.8±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.

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

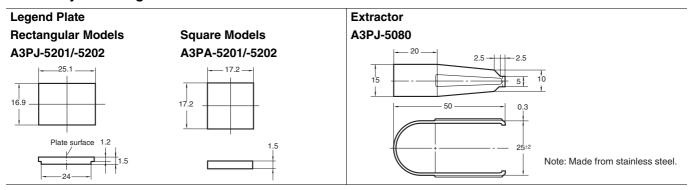


Note: 1. Recommended panel thickness: 1 to 5 mm

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)

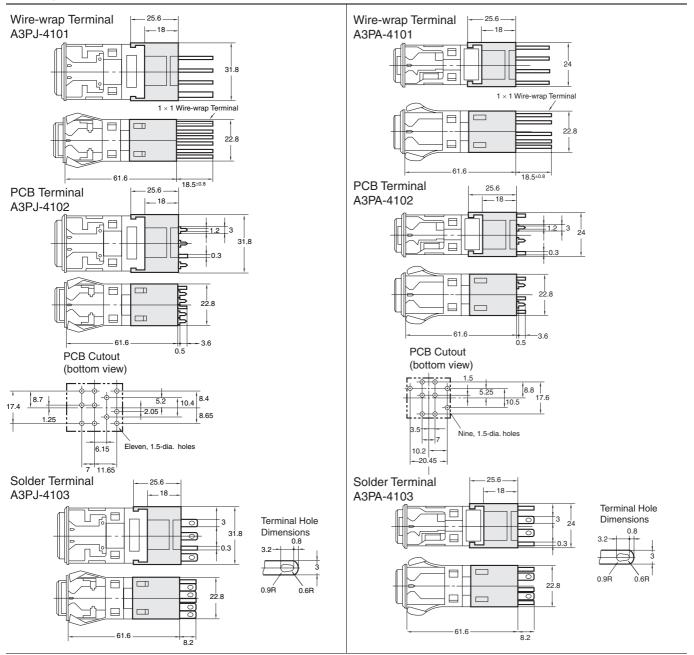
Accessory Mounting Dimensions



Socket-mounting Dimensions

Rectangular Models A3PJ (M2PJ)

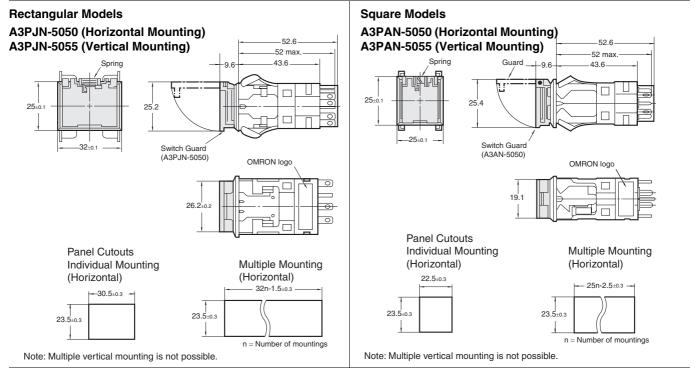
Square Models A3PA (M2PA)



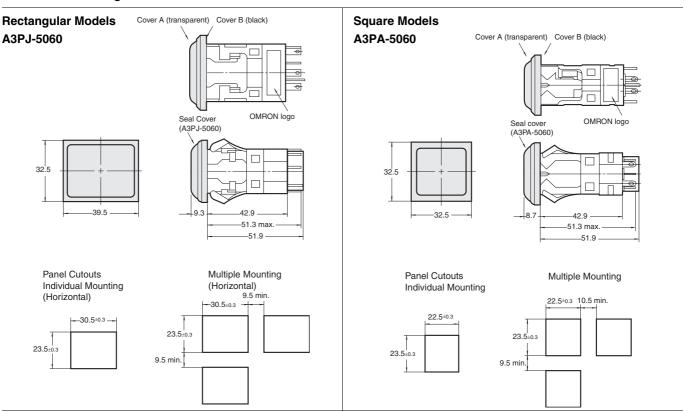
Note: PCB cutout dimensions show the switch mounted to the socket with the OMRON logo facing down.

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.

⚠ 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

- 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)

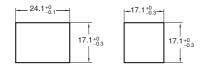
- Check the terminal polarity when wiring.
- The rated voltage is shown on the plate on the back of the lighting unit, so be sure to use within the voltage shown.
- An LED current-limiting resistor is built in, so there is no need to mount an external resistor.

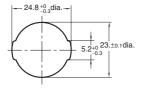
Incandescent Lamp

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

Character Plate (Character Film)

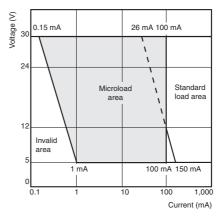
• If preparing the character plate separately, use a heat-resistant film with a thickness of 0.1 to 0.3 mm.





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 $^{-4}$ /time indicates that the estimated malfunction rate is less than 1/2,000,000 with a reliability level of 60%.



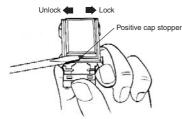
Others

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

Assembly/Disassembly

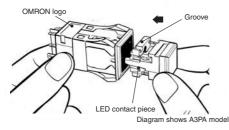
A3PJ/M2PJ (Rectangular Models), A3PA/M2PA (Square Models)

Locking/Unlocking Positive Cap Lock Mechanism



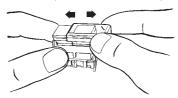
Mounting Pushbutton

- 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

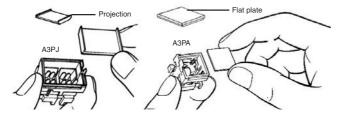
Insert the A3PA from the open side into the theft-prevention stopper.



Mounting Colored Plate

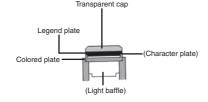
Place the colored plate on the plunger case with the dull side of the colored plate facing downward.

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.



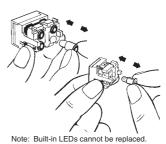
Mounting Character Plate (Character Frame) and Legend Plate

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



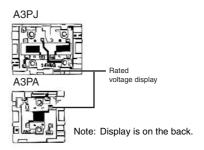
Mounting and Replacing LED and Incandescent Lamps

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



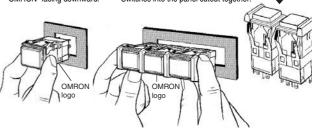
LED Rated Voltage Display (LED Models Only)

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%.



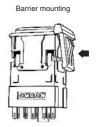
Mounting Switch onto Panel

 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.



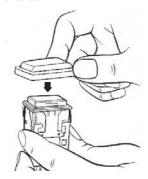
Mounting Barriers

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.

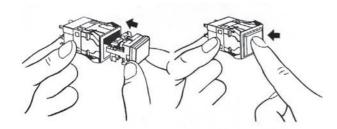


Inscribing the Legend Plate

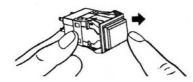
- Inscribe the legend plate to a depth of 0.5 mm max.
- The legend plate is made from polycarbonate resin. To coat the legend plate, use an alcohol-based coating such as melamine, phthalic acid, or acrylic.

Maintenance Lock

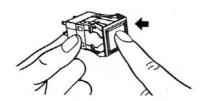
 First, when you insert the transparent lens while pressing the center, the maintenance lock mechanism will be activated, and the Switch will not operate. Lamp replacement and other maintenance can be performed without turning OFF the power supply to devices and equipment. Use an insertion force of 4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