

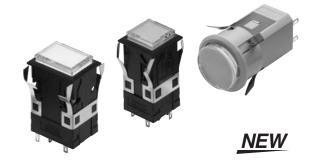
Lighted Pushbutton Switch (Square) Ultra Bright LED Type A3P

Large Square-bodied Lighted Pushbutton Switches New models added with Ultra LEDs.

- New models with ultra bright LEDs added to single-screen models.
- Previous models not changed.
 Line up of models in seven colors (the previous red, orange, green, and white models, and the new yellow, blue, and pure white models).
- Popular maintenance lock added.



Refer to Safety Precautions for All Pushbutton Switches/ Indicators and Safety Precautions in the A3P datasheet.



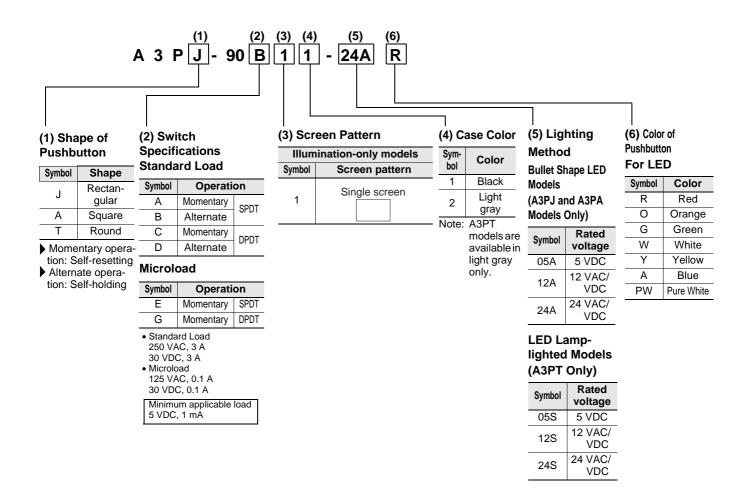
List of Models

Model	Appearance
A3PJ (Rectangular)	6.7 52 max.
A3PA (Square)	6.7 52 max.
A3PT (Round)	6.4 52 max. 32 dia.

Model Number Structure

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

For information on combinations, refer to Ordering Information on pages page 3 and 4.



Color of screen	Symbol	R	Υ	G	W	0	Α	PW
Color of Screen	Color	Red	Yellow	Green	White	Orange	Blue	Pure White
Color of Plate		Red	Yellow	Green	White	Orange	Blue	White
LED		Red	Pure Yellow	Green	Amber	Orange	Blue	Pure White

Ordering Information

Ordering as a Set The model numbers used to order sets of Units are given in the following tables. One set comprises the Pushbutton, Lamp, and Switch.

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

Rectangular Models

(Single Screen)



(Single Screen)	(1)
3PJ	

		Lighting method	Operation	Momentary operat	ion (Self-resetting)	Alternate operation (Self-holding)		
Contact type	No. of outputs	Pushbutton color symbol	Case color	Black	Light gray	Black	Light gray	
		Bullet Shape LEDs	5 VDC	A3PJ-90A11-05A(1)	A3PJ-90A12-05A(1)	A3PJ-90B11-05A(1)	A3PJ-90B12-05A(1)	
	SPDT	R, O, G, W, Y, A or	12 VAC/DC	A3PJ-90A11-12A(1)	A3PJ-90A12-12A(1)	A3PJ-90B11-12A(1)	A3PJ-90B12-12A(1)	
Standard		PW	24 VAC/DC	A3PJ-90A11-24A(1)	A3PJ-90A12-24A(1)	A3PJ-90B11-24A(1)	A3PJ-90B12-24A(1)	
Loads		Bullet Shape LEDs R, O, G, W, Y, A or PW	5 VDC	A3PJ-90C11-05A(1)	A3PJ-90A12-05A(1)	A3PJ-90D11-05A(1)	A3PJ-90D12-05A(1)	
	DPDT		12 VAC/DC	A3PJ-90C11-12A(1)	A3PJ-90C12-12A(1)	A3PJ-90D11-12A(1)	A3PJ-90D12-12A(1)	
			24 VAC/DC	A3PJ-90C11-24A(1)	A3PJ-90C12-24A(1)	A3PJ-90D11-24A(1)	A3PJ-90D12-24A(1)	
		Bullet Shape LEDs	5 VDC	A3PJ-90E11-05A(1)	A3PJ-90E12-05A(1)	_	-	
	SPDT		12 VAC/DC	A3PJ-90E11-12A(1)	A3PJ-90E12-12A(1)	_	-	
Microloads			24 VAC/DC	A3PJ-90E11-24A(1)	A3PJ-90E12-24A(1)	_	_	
WIICIOIOaus		Bullet Shape LEDs R, O, G, W, Y, A or PW	5 VDC	A3PJ-90G11-05A(1)	A3PJ-90G12-05A(1)	_	_	
	DPDT		12 VAC/DC	A3PJ-90G11-12A(1)	A3PJ-90G12-12A(1)	_	-	
			24 VAC/DC	A3PJ-90G11-24A(1)	A3PJ-90G12-24A(1)	_	_	

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

Example: Red A3PJ-90A11-24AR

Ordering Information

Ordering as a Set The model numbers used to order sets of Units are given in the following tables. One set comprises the Pushbutton, Lamp, and Switch.

Square Models (Single Screen)



(Single Screen)



		Lighting method	Operation	Momentary operat	tion (Self-resetting)	Alternate operation (Self-holding)		
Contact type	No. of outputs	Pushbutton color symbol	Case color	Black	Light gray	Black	Light gray	
		Bullet Shape LEDs	5 VDC	A3PA-90A11-05A(1)	A3PA-90A12-05A(1)	A3PA-90B11-05A(1)	A3PA-90B12-05A(1)	
SPDT Standard	SPDT	R, O, G, W, Y, A or	12 VAC/DC	A3PA-90A11-12A(1)	A3PA-90A12-12A(1)	A3PA-90B11-12A(1)	A3PA-90B12-12A(1)	
		PW	24 VAC/DC	A3PA-90A11-24A(1)	A3PA-90A12-24A(1)	A3PA-90B11-24A(1)	A3PA-90B12-24A(1)	
Loads		Bullet Shape LEDs R, O, G, W, Y, A or PW	5 VDC	A3PA-90C11-05A(1)	A3PA-90A12-05A(1)	A3PA-90D11-05A(1)	A3PA-90D12-05A(1)	
	DPDT		12 VAC/DC	A3PA-90C11-12A(1)	A3PA-90C12-12A(1)	A3PA-90D11-12A(1)	A3PA-90D12-12A(1)	
			24 VAC/DC	A3PA-90C11-24A(1)	A3PA-90C12-24A(1)	A3PA-90D11-24A(1)	A3PA-90D12-24A(1)	
		Bullet Shape LEDs	5 VDC	A3PA-90E11-05A(1)	A3PA-90E12-05A(1)	_	-	
	SPDT	R, O, G, W, Y, A or	12 VAC/DC	A3PA-90E11-12A(1)	A3PA-90E12-12A(1)	_	-	
Microloads		PW	24 VAC/DC	A3PA-90E11-24A(1)	A3PA-90E12-24A(1)	_	-	
wiicioloads		Bullet Shape LEDs R, O, G, W, Y, A or PW	5 VDC	A3PA-90G11-05A(1)	A3PA-90G12-05A(1)	_	-	
	DPDT		12 VAC/DC	A3PA-90G11-12A(1)	A3PA-90G12-12A(1)	_	=	
			24 VAC/DC	A3PA-90G11-24A(1)	A3PA-90G12-24A(1)	-	-	

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

Example: Red A3PA-90A11-24AR





			Operation	Momentary operation (Self-resetting)	Alternate operation (Self-holding)	Pushbutton color
Contact type	No. of outputs	Lighting method	ing method Case Light gray		Light gray	symbol
			5 VDC	A3PT-90A12-05S(1)	A3PT-90B12-05S(1)	
	SPDT		12 VAC/DC	A3PT-90A12-12S(1)	A3PT-90B12-12S(1)	
Standard			24 VAC/DC	A3PT-90A12-24S(1)	A3PT-90B12-24S(1)	
Loads	DPDT	LED lamp	5 VDC	A3PT-90C12-05S(1)	A3PT-90D12-05S(1)	R
			12 VAC/DC	A3PT-90C12-12S(1)	A3PT-90D12-12S(1)	0
			24 VAC/DC	A3PT-90C12-24S(1)	A3PT-90D12-24S(1)	G W
			5 VDC A3PT-90E12-		-	VV Y
	SPDT		12 VAC/DC	A3PT-90E12-12S(1)	-	A
Microloads			24 VAC/DC	A3PT-90E12-24S(1)	-	PW
MICTOIOAGS			5 VDC	A3PT-90G12-05S(1)	-	
	DPDT		12 VAC/DC	A3PT-90G12-12S(1)	-	
			24 VAC/DC	A3PT-90G12-24S(1)	-	

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

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

Accessories and Tools

The accessories and tools are the same as those for the A3P. Refer to the A3P datasheet.

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)

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 load (A)				Inductive load (A)			
voltage (V)	Resistive load		Lamp load		Inductive load		Motor load	
	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	5 5		2 2		4		3	
30 VDC 125 VDC 250 VDC	4 0.4 0.2		0.0 0.0		3 0.4 0.2		3 0.05 0.03	

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

 4. The motor load has an inrush current of 6 times the steady-state
- current

Standard testing condition

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

Gold Alloy Contacts (for Microloads)

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

Bullet Shape LED and LED Lamp Ratings Bullet Shape LEDs

	Model	A3PJ/M2PJ	A3PA/M2PA		
		Rated current	Rated current		
Applied voltage	Rated voltage	Single screen	Single screen		
5 VDC±5%	5 VDC	40 mA	20 mA		
12 VDC±5%	12 VDC	20 mA	10 mA		
24 VDC±5%	24 VDC	10 mA	IUIIIA		

LED Lamps

Applied voltage	Rated voltage	Rated current
5 VDC±5%	5 VDC	
12 VAC/VDC±5%	12 VDC	8 mA
24 VAC/VDC±5%	24 VDC	

Characteristics

		Mechanical	120 operations/minute max. *1	
Operating frequency Insulation resistance		Electrical	30 operations/minute max.	
		Electrical	100 MΩ min. (at 500 VDC)	
		(
Contact Standard load			40 mΩ max. (initial value)	
resistance Microload			100 mΩ max. (initial value)	
	Between terminals of	• •	1,000 VAC, 50/60 Hz for 1 minute *2	
	Between terminals of		2,000 VAC, 50/60 Hz for 1 minute	
Dielectric strength	Between current- part and ground		2,000 VAC, 50/60 Hz for 1 minute	
-	Between each ter non-current-carry		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	olotonoo	Destruction	500 m/s ² max.	
SHOCK IE	Sistance	Malfunction	200 m/s ² max. (1 ms max.)	
Life expectancy		Mechanical	Momentary operation models: 1,000,000 operations min. Alternate operation models: 200,000 operations min. (One operation consists of set and reset operations.)	
		Electrical	100,000 operations min.	
Weight			Approx. 30 g	
Inrush cu	ant	NC	Silver contact: 10 A max.	
inrusii cu	irrent	NO	Silver contact: 10 A max.	
Ambient	operating tempera	ature	Bullet Shape LEDs: -10°C to 40°C (with no icing or condensation) LED Lamps: -10°C to 50°C (with no icing or condensation)	
Ambient	operating humidit	у	35% to 85%RH	
Ambient	storage temperatu	-25°C to 65°C		
Degree of protection			IP40	
Electric shock protection class			Class II	
PTI (proo	of tracking index)	175		
Pollution	degree		3 (IEC947-5-1)	
*1 \\/ith a	Itornata aparation	tions/minute may. One operation		

^{*1.} With alternate operation models, 60 operations/minute max. One operation cycle consists of set and reset operations.
*2. 600 VAC for microloads.
*3. With no incandescent lamp or LED lamp mounted.

Specifications

Operating Characteristics

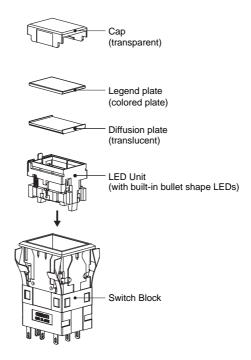
	Model	A3PJ series A3PA series		series	A3PT series		
Operating Characteristics		Momentary operation models	Alternate operation models	Momentary operation models	Alternate operation models	Momentary operation models	Alternate operation models
Operating force	OF max.	5.88 N	6.86 N	5.88 N	6.86 N	3.92 N	4.90 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

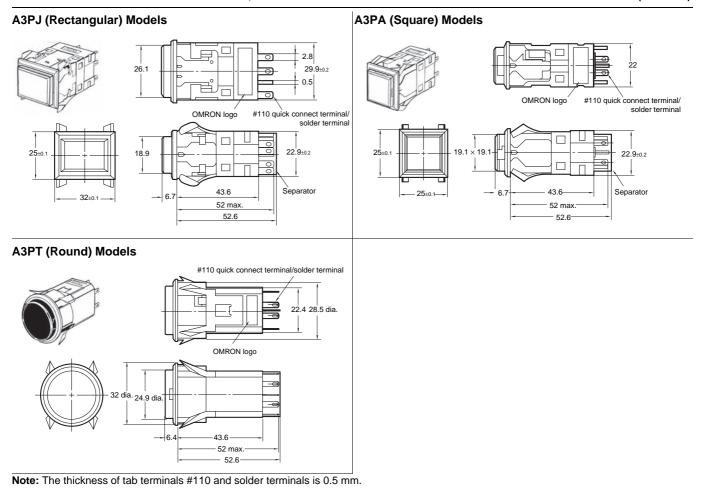
Model Structure

Lighting method	Lighting method Bullet Shape LED Models (LED is built-in.)		LED Lamp-lighted Models (LED lamp is not built-in.)	
Models	A3PJ	АЗРА	A3PT	
Screen patterns	Single screen	Single screen	Single screen	

Example: A3PJ with Bullet Shape LED Lighting



(Unit: mm)



Terminal Connections Bullet Shape LED Models

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

R	Rated voltage	5 VDC	12 VDC	24 VDC	
Model Screen pattern		3 400	12 400	24 VDC	
		Bottom view Top view	Bottom view Top view	Bottom view Top view	
A3PJ	Single screen	Terminal Lighting block arrangement	Terminal Lighting block	NOI L4-1-12-1 L1-1 L1-1 L2-1 L3-1-1-1 Lighting block	
АЗРА	Single screen	Bottom view Top view Top view Terminal Lighting block arrangement	Bottom view Top view Top view Terminal Lighting block arrangement		

Dimensions (Unit: mm)

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	Round A3PT models	
	Bottom view Top view	
SPDT	NOT 11-	
	Terminal Lighting block arrangement	

Panel Cutout (If you use a Switch Guard or Seal Cover, refer to Switch and Guard Mounting Dimensions or Seal Cover Mounting Dimensions in the A3P datasheet.)

A3PJ (Rectangular) Models

Cla	assification	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 23.5±0.3	
	Individual mounting (Vertical)	Mount to long mounting plat (A3PJ-3002) before use.	23.5±0.3 30.5±0.3 j	
	Multiple mounting (Vertical)	32±0.1 1 2 n Mount to long mounting plat (A3PJ-3002) before use.	25n-1.5±0.3 30.5±0.3	
Barrier mount models	Individual mounting (Horizontal)	27	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 in the A3P datasheet. Panel cutout spacing between rows of Units: (Dotted line indicates the position of each mounting barrier.)
	Individual mounting (Horizontal)	Mount to long mounting plat (A3PJ-3002) before use.	30.550.3	1.3 — 6 min. 6 min.
	Multiple mounting (Vertical)	Mount to long mounting plat (A3PJ-3002) before use.	25.9n+3.5±0.3 30.5±0.3	

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.

Dimensions (Unit: mm)

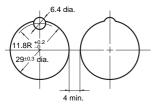
A3PA (Square) Models

Cla	assification	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.)
	Multiple mounting	27 1 2 n	23.5±0.3 ——26n+2.5±0.3 ——	1.3 6 min. 6 min.

- 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.

A3PT (Round) Models



Note: 1. Recommended panel thickness: 1 to 5 mm
2. If the panel is to be finished (e.g., coated), make sure that the panel meets the specified dimensions after the coating.

A₃P

Safety Precautions

Refer to *Safety Precautions for all Pushbutton Switches/Indicators* for common precautions. Read the *Safety Precautions* in the A3P datasheet.

For technical information and FAQs, refer to Technical Support on the OMRON Industrial Automation website (http://www.ia.omron.com).

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A3PA-90A11-24AG A3PA-90A11-24AW A3PJ-90A11-24AR A3PA-90A11-24AR A3PJ-90A11-24AG A3PJ-90A11-24AW A3PA-90B11-24AR A3PJ-90B11-24AR A3PA-90A11-24AA A3PJ-90B11-24AW A3PA-90A11-24APW A3PJ-90B11-24AA A3PJ-90B11-24AG A3PA-90A11-24AO A3PJ-90B11-24AO A3PA-90B11-24AW A3PA-90B11-24AG A3PJ-90A11-24AO A3PT-90A12-24SW A3PA-90B11-24AA A3PJ-90A11-24AA A3PA-90B11-24APW A3PJ-90A11-24APW A3PJ-90B11-24APW A3PA-90A11-12AO A3PA-90A12-24AA A3PA-90A12-24AG A3PA-90A12-24AO A3PA-90A12-24APW A3PA-90A12-24AR A3PT-90B12-24SW A3PT-90B12-24SY A3PT-90A12-24SY A3PT-90B12-24SA A3PT-90B12-24SG A3PT-90B12-24SO A3PT-90B12-24SPW A3PT-90B12-24SR A3PJ-90D12-24AR A3PJ-90D12-24AW A3PT-90A12-24SA A3PT-90A12-24SG A3PT-90A12-24SO A3PT-90A12-24SPW A3PJ-90D11-24AR A3PJ-90D11-24AW A3PJ-90D12-24AA A3PJ-90D12-24AG A3PJ-90D12-24AO A3PJ-90D12-24APW A3PJ-90C12-24AR A3PJ-90C12-24AW A3PJ-90D11-24AA A3PJ-90D11-24AG A3PJ-90D11-24AO A3PJ-90D11-24APW A3PJ-90C11-24AR A3PJ-90C11-24AW A3PJ-90C12-24AA A3PJ-90C12-24AG A3PJ-90C12-24AO A3PJ-90C12-24APW A3PJ-90B12-24AR A3PJ-90B12-24AW A3PJ-90C11-24AA A3PJ-90C11-24AG A3PJ-90C11-24AO A3PJ-90C11-24APW A3PJ-90A12-24AR A3PJ-90A12-24AW A3PJ-90B12-24AA A3PJ-90B12-24AG A3PJ-90B12-24AO A3PJ-90B12-24APW A3PA-90D12-24AR A3PA-90D12-24AW A3PJ-90A12-24AA A3PJ-90A12-24AG A3PJ-90A12-24AO A3PJ-90A12-24APW A3PA-90D11-24AR A3PA-90D11-24AW A3PA-90D12-24AA A3PA-90D12-24AG A3PA-90D12-24AO A3PA-90D12-24APW A3PA-90C12-24AR A3PA-90C12-24AW A3PA-90D11-24AA A3PA-90D11-24AG A3PA-90D11-24AO A3PA-90D11-24APW A3PA-90C11-24AR A3PA-90C11-24AW A3PA-90C12-24AA A3PA-90C12-24AG A3PA-90C12-24AO A3PA-90C12-24APW A3PA-90B12-24AR A3PA-90B12-24AW