

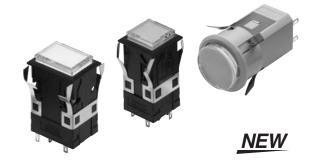
# Lighted Pushbutton Switch (Square) Ultra Bright LED Type A3P

# 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.



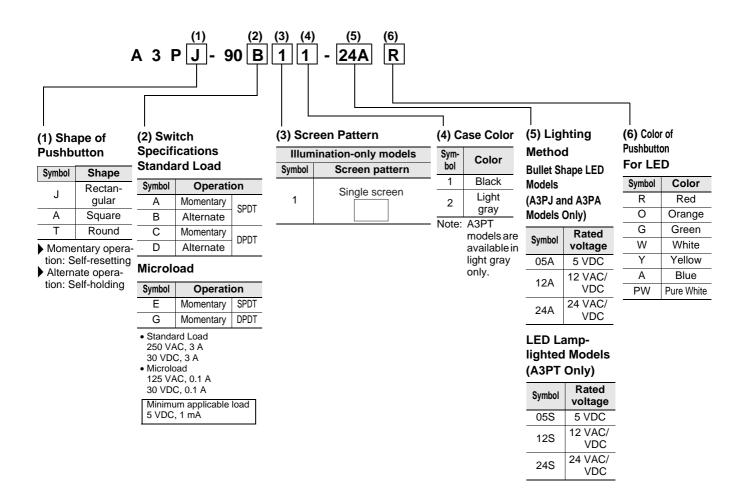
### **List of Models**

Model	Appearance
A3PJ (Rectangular)	6.7 52 max.
A3PA (Square)	6.7 52 max 25 25 25 25 25 25 25 25 25 25 25 25 25 2
A3PT (Round)	6.4 52 max.

### **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	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 So A3PJ

creen) (1)
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		Lighting method	Operation	Momentary operation (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)	
	tandard PW Loads Bullet Shape LED	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	5 VDC	A3PJ-90C11-05A(1)	A3PJ-90A12-05A(1)	A3PJ-90D11-05A(1)	A3PJ-90D12-05A(1)	
			12 VAC/DC	A3PJ-90C11-12A(1)	A3PJ-90C12-12A(1)	A3PJ-90D11-12A(1)	A3PJ-90D12-12A(1)	
		PW	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	R, O, G, W, Y, A or	12 VAC/DC	A3PJ-90E11-12A(1)	A3PJ-90E12-12A(1)	_	-	
Microloads		PW	24 VAC/DC	A3PJ-90E11-24A(1)	A3PJ-90E12-24A(1)	_	-	
wiicroloads		Bullet Shape LEDs	5 VDC	A3PJ-90G11-05A(1)	A3PJ-90G12-05A(1)	_	-	
	DPDT	R, O, G, W, Y, A or	12 VAC/DC	A3PJ-90G11-12A(1)	A3PJ-90G12-12A(1)	_	-	
		PW	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	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)	
Standard	Loads Bullet Shape LED	PW	24 VAC/DC	A3PA-90A11-24A(1)	A3PA-90A12-24A(1)	A3PA-90B11-24A(1)	A3PA-90B12-24A(1)	
Loads		Bullet Shape LEDs	5 VDC	A3PA-90C11-05A(1)	A3PA-90A12-05A(1)	A3PA-90D11-05A(1)	A3PA-90D12-05A(1)	
		R, O, G, W, Y, A or PW	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)	-	_	
WILCIOIOAGS	DPDT	Bullet Shape LEDs	5 VDC	A3PA-90G11-05A(1)	A3PA-90G12-05A(1)	_	_	
		R, O, G, W, Y, A or	12 VAC/DC	A3PA-90G11-12A(1)	A3PA-90G12-12A(1)	-	_	
		PW	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
Contact type	No. of outputs	Lighting method	Case color	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-90E12-05S(1)	-	Y
	SPDT		12 VAC/DC	A3PT-90E12-12S(1)	-	À
Microloads			24 VAC/DC	A3PT-90E12-24S(1)	-	PW
			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	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 0.00 0.00	

- 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)**

	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**

Operating	g frequency	Mechanical	120 operations/minute max. *1	
		Electrical	30 operations/minute max.	
Insulation resistance		100 MΩ min. (at 500 VDC)		
Contact	Standard load		40 mΩ max. (initial value)	
resistance	Microload		100 mΩ max. (initial value)	
	Between terminals	of same polarity	1,000 VAC, 50/60 Hz for 1 minute *2	
	Between terminals	of different polarity	2,000 VAC, 50/60 Hz for 1 minute	
Dielectric strength	Between current part and ground	-carrying metal	2,000 VAC, 50/60 Hz for 1 minute	
5Jg	Between each te non-current-carr		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	cictanco	Destruction	500 m/s <sup>2</sup> max.	
SHOCKIE	Sistance	Malfunction	200 m/s <sup>2</sup> 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	irrant	NC	Silver contact: 10 A max.	
illi usii cu	ment	NO	Silver contact: 10 A max.	
Ambient operating temperature			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 s	shock protection c	Class II		
PTI (prod	f tracking index)		175	
Pollution	degree		3 (IEC947-5-1)	

<sup>\*1.</sup> 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**

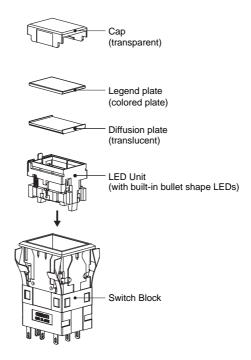
	Model	A3PJ series		A3PA	series	A3PT series	
Operating Characteristics		Momentary operation models	Alternate operation models	Momentary operation models	Alternate operation models	Momentary operation models	Alternate operation models
Operating force	OF max.	5.88 N	6.86 N	5.88 N	6.86 N	3.92 N	4.90 N
Releasing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

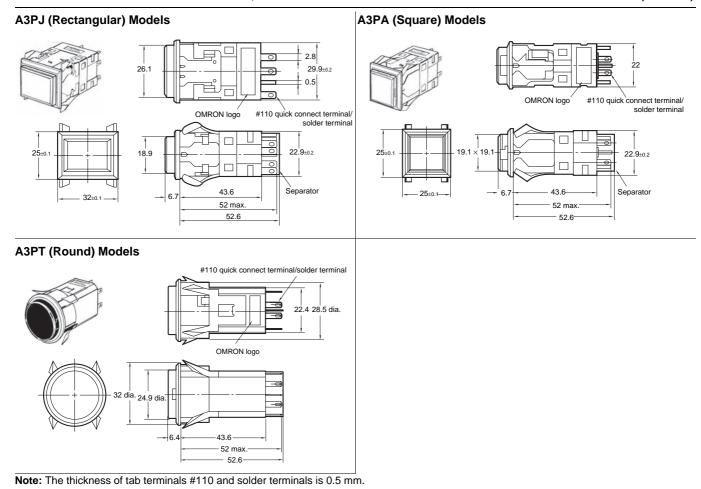
### **Model Structure**

Lighting method	Bullet Shape (LED is	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.)

Rated voltage  Screen pattern		5 VDC	12 VDC	24 VDC	
		3 400	12 400		
		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	arrangement  Bottom view  L1-  Terminal arrangement	arrangement  Top view  Lighting block	

**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 L1 - NOT L2 - NOT		
	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

Classification		Mounting design		Panel cutout	Remarks	
Flange mount models	Individual mounting (Horizontal)	25±0.1		30.5±0.3		
	Multiple mounting (Horizontal)	25 <sup>±0.1</sup> 1 2 n		32n-1.5±0.3 23.5±0.3	Panel cutout spacing between rows of Units:	
	Individual mounting (Vertical)	32±0.1 25±0.1	Mount to long mounting plate (A3PJ-3002) before use.	23.5±0.3 30.5±0.3	6 min. +	
	Multiple mounting (Vertical)	32±0.1 1 2 n	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 in th A3P datasheet. Panel cutout spacing between rows of Units: (Dotted line indicates the position of each mounting barrier.)	
	Individual mounting (Horizontal)	32:0.1	Mount to long mounting plate (A3PJ-3002) before use.	30.5±0.3	1.3 - 6 min.	
	Multiple mounting (Vertical)	34 1 2 n	Mount to long mounting plate (A3PJ-3002) before use.	30.5±0.3 30.5±0.3	<u>ij. v. ij</u> !	

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)

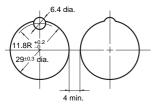
### A3PA (Square) Models

Cla	assification	Mounting design	Panel cutout	Remarks	
Flange mount models	Individual mounting	25±0.1 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.

### A<sub>3</sub>P

# **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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MML23KW3AA01W 8418K2 8442K2 8442K3 8450K1 860K11911T01A 861901 861K11911T01A07 861K13810T00A14 861K13911
8646AB6X718UL 8646ABUL 9001KXRK 907AYY100 PMHD155A1 9533CD4+U574+U4922 95-414.000 99-450.837 99-453.837
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