A3K

CSM_A3K_DS_E_4_7

Sense of Touch and Protection Ability Improved over OMRON's Previous Models. **Miniature Design Achieved with Body** Length of 23 mm.

- Combines miniature design with distinct but soft sense of operation.
- Five colors (red, yellow, green, white, and blue) with LEDs.
- Improved sense of touch with built-in Basic Switch.
- Built-in Basic Switch improves protection over OMRON's previous models.
- Chip LED produces even surface brightness.
- Easy panel mounting from the front.





Refer to Safety Precautions for All Pushbutton Switches/ Indicators and Safety Precautions on page 15.

List of Models

Lighted Pushbutton Switches

Ligitled I delibation owitches							
Appearance	Model						
Rectangular							
	A3KJ						
Square							
	A3KA						

■ Specifications: Refer to page 10.

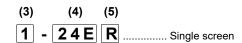
■ Accessories: Refer to pages 8 to 9.

■ Dimensions: Refer to page 12.

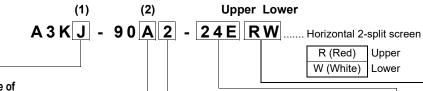
Model Number Structure

Model Number LegendThe model numbers used to order sets of Units are illustrated below. One set comprises the Operation Unit (LED built in) and Socket Unit.

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



Symbol



(1) Shape of **Operation Unit**

Symbol	Shape
J	Rectangular
Α	Square

(2) Switch Specifications Standard Load

Symbol	Operation	Contacts
Α	Momentary	SPDT
В	Alternate	3501
С	Momentary	DPDT
D	Alternate	DFDI

Microload

Symbol	Operation	Contacts	
Е	Momentary	SPDT	
F	Alternate	SPDI	
G	Momentary	DPDT	
Н	Alternate	DEDT	

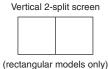
- Standard Load 250 VAC, 3 A 30 VDC, 3 A
- Microload 125 VAC, 0.1 A 30 VDC, 0.1 A
- Minimum applicable load 5 VDC, 1 mA
- Momentary operation: Self-resetting
- Alternate operation: Self-holding

(3) Screen Pattern Illumination-only models

Screen pattern Single screen

1	
2	Horizontal 2-split screen (rectangular models only)

The screen patterns listed below can be ordered individually. Refer to page 6 for details.



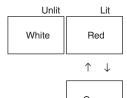
Symbol	Operating voltage
05E	5 VDC
12E	12 VDC
24E	24 VDC

Only for LED models.

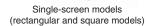
(4) Lighting Method (5) Color of Display

Symbol	Color		
R	Red		
Υ	Yellow		
G	Green		
W	White		
Α	Blue		
K	Red/green 2-color lighting (rectangular models only)		

Red/green 2-color lighting:



Green





Type

Vertical 2-split screen models (See note 1.) (rectangular models only)



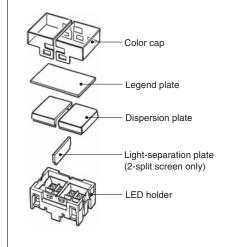
Horizontal 2-split screen models (rectangular models only)

Note: 1. Vertical 2-split screen models can be ordered only individually. Refer to page 6.

- A legend plate and LED (with current-limiting resistor) are built into a standard Display.
 Split-screen color configurations are given with the OMRON mark on the Switch facing down.
- 4. The built-in legend plate is milk-white in color.

Structure of Split-screen Operation Unit

(Example: Vertical 2-split screen)



Sets include an Operation Unit (LED built in) and a Switch.

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

Standard Loads

Rectangular Models

Standard Loads



A3K

Contact type			Standard load (250 V								
Screen pattern	•		Operation t Momentary operation (Self-resetting) Alternate operation (Self-holding)		Operation Unit color symbol						
		5 VDC	A3KJ-90A1-05E1	A3KJ-90B1-05E1							
	SPDT	12 VDC	A3KJ-90A1-12E1	A3KJ-90B1-12E1	Insert a color symbol in 1						
Cinale serses	·							24 VDC	A3KJ-90A1-24E1	A3KJ-90B1-24E1	number.
Single screen	DPDT	DPDT	DPDT	DPDT	DPDT	DPDT	DPDT	5 VDC	A3KJ-90C1-05E1	A3KJ-90D1-05E1	R (red), W (white)
								DPDT	12 VDC	A3KJ-90C1-12E1	A3KJ-90D1-12E1
		24 VDC	A3KJ-90C1-24E1	A3KJ-90D1-24E1							
Horizontal 2-	SPDT	24 VDC	A3KJ-90A2-24E112	A3KJ-90B2-24E112	Insert color symbols in 11 and 12 at the end of the						
split screen	DPDT	24 VDC	A3KJ-90C2-24E112	A3KJ-90D2-24E112	model number. R (red), W (white) Y (yellow), A (blue) Green						

Microloads

	Contact type Operation Screen pattern Output		Microload (125 VAC, 0.1 A; 30 VDC, 0.1 A)	Operation Unit color symbol	
Screen pattern			Momentary operation (Self-resetting)		
		5 VDC	A3KJ-90E1-05E1		
	SPDT	12 VDC	A3KJ-90E1-12E1	Insert a color symbol in the	
Single screen		24 VDC	A3KJ-90E1-24E1	number.	
Single Screen		5 VDC	A3KJ-90G1-05E1	R (red), W (white) Y (yellow), A (blue)	
	DPDT	12 VDC	A3KJ-90G1-12E1	G (green), K (red/green)	
		24 VDC	A3KJ-90G1-24E1		
Horizontal 2- split screen	SPDT	24 VDC	A3KJ-90E2-24E112	Insert color symbols in 1 and 2 at the end of the model number. R (red), W (white) Y (yellow), A (blue) G (green)	

Note: Alternate operation models are also available. Refer to page 7 for model numbers.

Individual models: Refer to pages 5 to 7. (The Pushbutton and Switch can be ordered separately.)

■ Specifications: Refer to page 10.

■ Dimensions: Refer to page 12.

Sets include an Operation Unit (LED built in) and a Socket Unit.

Square Models



Standard Loads

A3KA

Contact type			Standard load (250 V	Operation Unit color					
Screen pattern	Output	Operation	Momentary operation (Self-resetting)		symbol				
		5 VDC	A3KA-90A1-05E1	A3KA-90B1-05E1					
	SPDT	SPDT	SPDT	SPDT	SPDT	12 VDC	A3KA-90A1-12E1	A3KA-90B1-12E1	Insert a color symbol in 1
Single screen		24 VDC	A3KA-90A1-24E1	A3KA-90B1-24E1	number.				
Siligle Screen	DPDT		5 VDC	A3KA-90C1-05E1	A3KA-90D1-05E1	R (red), Y (yellow) G (green), W (white)			
			12 VDC	A3KA-90C1-12E1	A3KA-90D1-12E1	A (blue)			
		24 VDC	A3KA-90C1-24E1	A3KA-90D1-24E1					

Microloads

0	Contact type Operation		Operation (125 VAC, 0.1 A; 30 VDC, 0.1 A)		Operation Unit color symbol
Screen pattern	Output		Momentary operation (Self-resetting)		
	SPDT screen	5 VDC	A3KA-90E1-05E1		
		12 VDC	A3KA-90E1-12E1	Insert a color symbol in 1	
Single screen		24 VDC	A3KA-90E1-24E1	number.	
Siligle Scieeli		5 VDC	A3KA-90G1-05E1	R (red), Y (yellow) G (green), W (white)	
		12 VDC	A3KA-90G1-12E1	A (blue)	
		24 VDC	A3KA-90G1-24E1		

Note: Alternate operation models are also available. Refer to page 7 for model numbers.

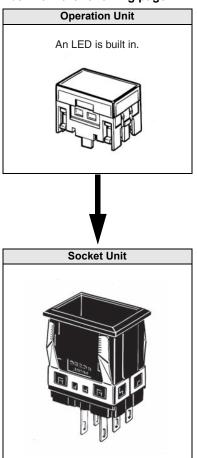
Individual models: Refer to pages 5 to 7. (The Pushbutton and Switch can be ordered separately.)

■ Specifications: Refer to page 10.

■ Dimensions: Refer to page 12.

Ordering Individually Operation Units (LED built in) and Socket Units can be ordered separately. Combinations that are not available as sets can be created using individual Units. Parts can also stored as spares for maintenance and repairs.

Ordering.....Specify a model number from the following page.



Ordering set combinations: Refer to pages 3 to 4.

■ Specifications: Refer to page 10.

■ Dimensions: Refer to page 12.

Operation Units

LED-lighted Models (LED chip built in)

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

Appearance	Screen pattern	Color	White (W)	Red (R)	Green (G)	Blue (A)	Yellow (Y)	Selection precautions		
	Single screen		A3KJ-51W -□□E	A3KJ-51R -□□E	A3KJ-51G -□□E	A3KJ-51A -□□E	A3KJ-51Y -□□E			
		White	A3KJ-52WW -□□E	A3KJ-52WR -24E	A3KJ-52WG -24E	_	_			
		Red	A3KJ-52RW -□□E	A3KJ-52RR -24E	A3KJ-52RG -□□E	_	_			
	Horizontal 2-split screen	Green	A3KJ-52GW -□□E	A3KJ-52GR -12E	A3KJ-52GG -□□E	A3KJ-52GA -24E	A3KJ-52GY -□□E			
Rectangular Models	3010011	Blue	A3KJ-52AW -24E	A3KJ-52AR -24E	A3KJ-52AG -24E	_	A3KJ-52AY -24E	Enter the voltage to be used in the □□ at the end of the model number. Examples of voltages		
(A3KJ)	Yellov	Yellow	A3KJ-52YW -□□E	_	A3KJ-52YG -□□E	_	A3KJ-52YY -05E			
	Vertical 2- split screen	White	A3KJ-53WW -24E	_	A3KJ-53WG -24E	_	_	used: 5V=0 5 E		
		Red	A3KJ-53RW -12E	_	A3KJ-53RG -□□E	_	_	12V=12E 24V=24E		
		Green	_	A3KJ-53GR -□□E	_	A3KJ-53GA -12E	_	Two-split screen models are available only for 24 V. • For the color of the shaded		
		Yellow	_	_	A3KJ-53YG -24E	_	_	part, select the model according to the colors		
	Two-color full illumination (red/green)	Red ↓	A3KJ-57K -□□E					given at the top of the table.		
Square Models (A3KA)										
	Single screen		A3KA-51W -□□E	A3KA-51R -□□E	A3KA-51G -□□E	A3KA-51A -□□E	A3KA-51Y -□□E			

Note: 1. A legend plate and LED (with current-limiting resistor) are built into a standard Display.
2. Split-screen color configurations are given with the OMRON mark on the Switch facing down.
3. The built-in legend plate is milk-white in color.

Ordering set combinations: Refer to pages 3 to 4.

■ Specifications: Refer to page 10.

■ Dimensions: Refer to page 12.

Socket Units

Appearance			Appearance	Rectangular models	Square models	Selection precautions										
Contact type Swite		Number of Switch outputs	Operation	Model	Model											
		4	Momentary operation	A3KJ-7010	A3KA-7010	Use the Socket Unit in combination with the same shape Operation Unit (rectangular or square).										
Standard	Silver alloy contacts	•	Alternate operation	A3KJ-7020	A3KA-7020											
load		2	Momentary operation	A3KJ-7030	A3KA-7030											
			2				_	_	_	_	_	_	_	_	Alternate operation	A3KJ-7040
		1	·	Momentary operation	A3KJ-7050	A3KA-7050 Socket I	eration Unit, select the A3KJ-7□□0 Socket Unit.									
Microload	Gold alloy			Alternate operation	A3KJ-7060	A3KA-7060	Momentary operation is self-resetting, and alternate operation is self-holding (i.e., push-on, push-off).									
Microload	contacts	2	Momentary operation	A3KJ-7070	A3KA-7070											
		2	Alternate operation	A3KJ-7080	A3KA-7080											

Ordering set combinations: Refer to pages 3 to 4.

■ Specifications: Refer to page 10.

■ Dimensions: Refer to page 12.

Accessories, Replacements, and Tools (Order Separately) Accessories for Rectangular Models

Name	Appearance	Classification	Model	Application Precautions
		Short Edge Barriers (1 pair)	A3SA-4001	The purpose of a Barrier is to prevent mal- functioning and to improve design image of
Barrier	4646	Short Intermediate Barrier	A3SA-4002	the mounting panel. There is one Intermediate Barrier and one
Damei	MMMM	Long Edge Barriers (1 pair)	A3SJ-4003	pair of Edge Barriers (i.e., two Barriers).
		Long Intermediate Barrier	A3SJ-4004	Mount Short Barriers horizontally. Mount Long Barriers vertically.
Switch Guard		_	A3SJ-5050	Cannot be used with Barriers or Seal Cover.
Seal Cover		_	A3SJ-5060	Cannot be used with Barriers or Switch Guard. Cap material: Vinyl chloride
Long Mounting Plate		_	A3KJ-3002	Use when vertically mounting individual (with Barrier) or multiple Switches (in standard mounting style and with Barriers). A Short Mounting Plate is attached to the Switch, so replace it with a long one.
		Transparent	A3SJ-5600	
		White	A3SJ-5601	The color cap is normally mounted. Con-
Color cap		Red	A3SJ-5602	tact your OMRON representative for color
	5	Green	A3SJ-5603	changes or inscribing.
		Blue	A3SJ-5604	Use a color that matches the Display color.
		Yellow	A3SJ-5605	

Accessories for Square Models

Name	Appearance	Classification	Model	Application Precautions
Barrier		Short Edge Barriers (1 pair)	A3SA-4001	The purpose of a Barrier is to prevent mal- functioning and to improve design image of
Damei		Short Intermediate Barrier	A3SA-4002	the mounting panel.
Switch Guard		_	A3SA-5050	Cannot be used with Barriers or Seal Cover.
Seal Cover		_	A3SA-5060	Cannot be used with Barriers or Switch Guard. Cap material: Vinyl chloride
		Transparent	A3SA-5600	
		White	A3SA-5601	The color cap is normally mounted. Con-
Color cap		Red	A3SA-5602	tact your OMRON representative for color
		Green	A3SA-5603	changes or inscribing.
		Blue	A3SA-5604	Use a color that matches the Display color.
		Yellow	A3SA-5605	

■ Specifications: Refer to page 10.

■ Dimensions: Refer to page 12.

■ Accessory mounting: Refer to page 16.

Tools for Rectangular Models

Name	Appearance	Classification	Model	Application precautions
Extractor		_	A3PJ-5080	Convenient for extracting the Operation Unit.

Replacements for Rectangular Models

Name	Appearance	Classif	ication	Model	Application precautions
Legend plate		Milk-white	LED	A3SJ-4203	All colors have a milk-white legend plate built in.

Replacements for Square Models

Name	Appearance	Classif	ication	Model	Application precautions
Legend plate		Milk-white	LED	A3SA-4203	All colors have a milk-white legend plate built in.

■ Specifications: Refer to page 10.

■ Accessory mounting: Refer to page 16.

■ Dimensions: Refer to page 12.

Specifications

Approved Standard Ratings UL (File No. E41515), CSA (File No. LR45258)

3 A at 250 VAC Standard Load:

> 5 A at 125 VAC 3 A at 30 VDC

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 (GB/T14048.5)

Standard Load: 3 A at 250 VAC

4 A at 30 VDC

3 A at 30 VDC Microload: 0.1 A at 125 VAC

0.1 A at 30 VDC

Ratings

Standard Load

AC resistive load	DC resistive load	
3 A at 250 VAC	3 A at 30 VDC	
5 A at 125 VAC	3 A at 30 VDC	

Note: The above ratings are from testing under the following conditions:

- 1) Ambient temperature: $20 \pm 2^{\circ}$ C
- 2) Ambient humidity: $65\% \pm 5\%$ RH 3) Operation frequency: 20 operations/min

Microload

Rating	0.1 A, 30 VDC (resistive load) 0.1 A, 125 VAC (resistive load)
Minimum applicable load	1 mA, 5 VDC

LED-lighted Models Rectangular Models (A3KJ)

Operating voltage	Rated voltage	Rated current
5 VDC ± 5%	5 VDC	48 mA (18 mA) *
12 VDC ± 5%	12 VDC	20 mA (10 mA) *
24 VDC ± 5%	24 VDC	10 mA (5 mA) *

^{*} Values are for blue illumination.

Square Models (A3KA)

Operating voltage	Rated voltage	Rated current
5 VDC ± 5%	5 VDC	24 mA (10 mA) *
12 VDC ± 5%	12 VDC	24 mA (10 mA) *
24 VDC ± 5%	24 VDC	12 mA (5 mA) *

^{*} Values are for blue illumination.

Characteristics

Operating frequency	Mechanical	Momentary-action models: 120 operations/min max. *1	
rrequericy	Electrical	20 operations/min max.	
Insulation i	resistance	100 MΩ min. (at 500 VDC)	
Contact	Standard load	50 mΩ max. (initial value)	
resistance	Microload	50 mΩ max. (initial value)	
	Between terminals of same polarity	1,000 VAC, 50/60 Hz for 1 minute	
	Between terminals of different polarity	2,000 VAC, 50/60 Hz for 1 minute	
Dielectric strength	Between current- carrying metal part and ground	2,000 VAC, 50/60 Hz for 1 minute	
	Between each terminal and non-current-car- rying metal part	2,000 VAC, 50/60 Hz for 1 minute	
	Between lamp terminals	1,000 VAC, 50/60 Hz for 1 minute *2	
Vibration resistance Malfunction		10 to 55 Hz, 1.5-mm double amplitude *3	
Shock	Destruction	500 m/s ² max.	
resistance	Malfunction	200 m/s² max. *3	
Durability	Mechanical	Momentary operation models: 2,000,000 operations min. Alternate operation models: 200,000 operations min. One operation cycle consists of set and reset operations.	
	Electrical	100,000 operations min. (rated load)	
Weight		Approx. 10 g	
Ambient opera	ating temperature	-10 to 50 °C (with no icing or condensation)	
Ambient operating humidity		35% to 85%RH	
Ambient storage temperature		−25 to 65 °C (with no icing or condensation)	
Degree of protection		IP00	
Electric shock	protection class	Class II	
PTI (proof tra	acking index)	175	
Pollution d	egree	3 (IEC 60947-5-1)	

^{*1.} Alternate-action models: 60 operations/min max.

Operating Characteristics

operating enaractoriotics				
Operation	Momentary	Alternate		
Operating Characteristics	operation	operation		
Operating force (OF) max.	3.92 N	4.90 N		
Releasing force (RF) min.	0.49 N	0.294 N		
Total travel (TT)	Approx. 3 mm	Approx. 3 mm		
Pretravel (PT) max.	2.5 mm	2.5 mm		
Lock travel alternate (LTA) min. *	_	0.5 mm		

^{*} Alternate operation models only.

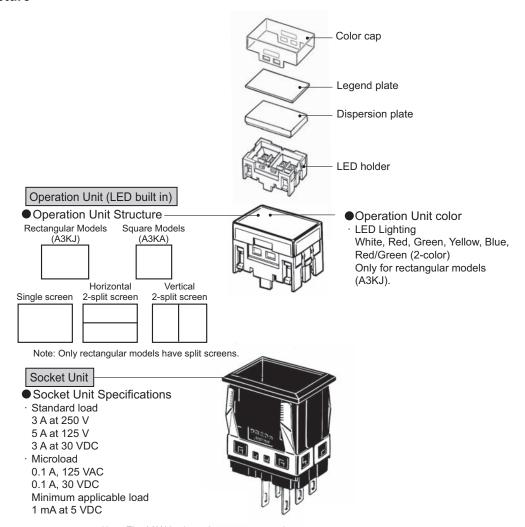
Contact Form

Contact name	Contact form	
Double-throw contacts	COM	
Contacts	NO	

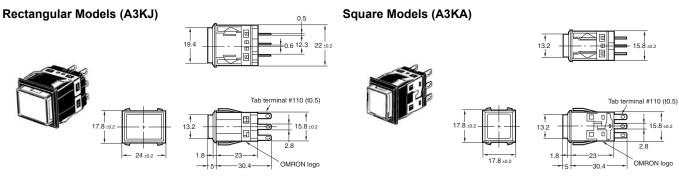
⁽One operation cycle consists of set and reset operations.)

^{*2.} The figure is for when no LED is mounted. *3. Malfunction: 1 ms max.

Model Structure



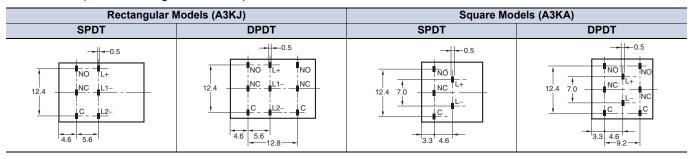
Note: The A3KJ is shown here as an example.



Note: Unless specified, a tolerance of ± 0.4 mm applies for all dimensions. Use a mounting panel thickness of 1 to 4 mm.

Terminal Arrangement

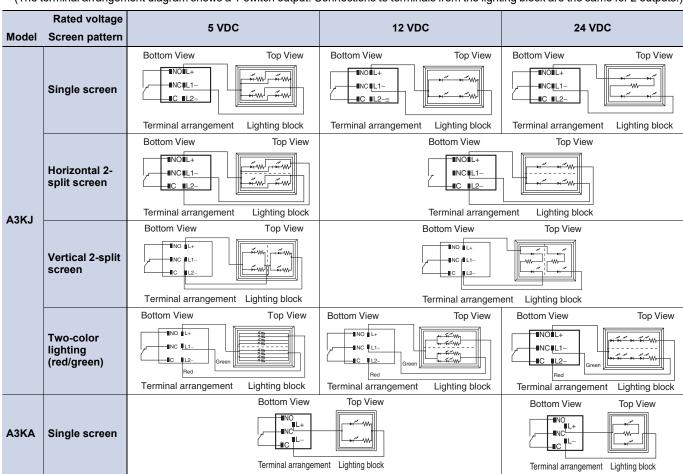
Bottom View (All OMRON logos face down.)



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)

Panel Cutouts (If a Switch Guard or Seal Cover is to be used, refer to the panel cutout diagrams on the following page.) Rectangular Models (A3KJ)

Note: Use a mounting panel thickness of 1 to 4 mm.

C	lassification	Mounting design	Panel cutout	Remarks
Flange mount models	Individual mounting, horizontal	17.8 ±0.2	16.2 ±0.2	Panel cutout spacing between rows of Units:
	Multiple mounting, horizontal	17.8±0.2 1 2 n	16.2±0.2 + 24n-1.6±0.2 -	
	Individual mounting, vertical	Mount to Long Mounting Plate (A3KJ-3002) before use.	22.4±0.2	
	Multiple mounting, vertical	Mount to Long Mounting Plate (A3KJ-3002) before use.	22.4 ±0.2 17.8n-1.6 ±0.2	
Barrier mount models	Individual mounting, horizontal	19.8	16.2 ±0.2 ±06.9 ±0.2	Panel cutout spacing between rows of Units: 1.4
	Multiple mounting, horizontal	19.8 1 2 n	16.2±0.2 25.3n+1.6±0.2	
	Individual mounting, vertical	Mount to Long Mounting Plate (A3KJ-3002) before use.	22.4±0.2 20.7±0.2	
	Multiple mounting, vertical	Mount to Long Mounting Plate (A3KJ-3002) before use.	22.4 ±0.2 19.1n+1.6 ±0.2	

Square Models (A3KA)

Note: Use a mounting panel thickness of 1 to 4 mm.

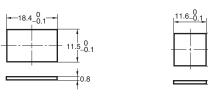
Cla	ssification	Mounting design	Panel cutout	Remarks
Flange mount models	Individual mounting	17.8 ±0.2	16.2 ±0.2	Panel cutout spacing between rows of Units:
	Multiple mounting	17.8±0.2 1 2 3 n	16.2±0.2 17.8n-1.6±0.2	
Barrier mount models	Individual mounting	19.8±0.2	16.2 ±0.2	Panel cutout spacing between rows of Units: 1.4
	Multiple mounting	19.8±0.2 1 2 3 n	16.2 ±0.2 19.1n+1.6 ±0.2	

Dimensions (Unit: mm)

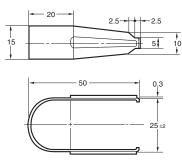
Accessories Dimensions When Mounted

Legend Plate Rectangular Models A3SJ-4203, A3SJ-4204

Square Models A3SA-4203, A3SA-4204

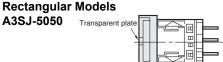


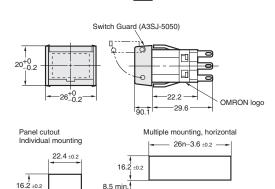
Extractor A3PJ-5080



Note: The material is stainless steel.

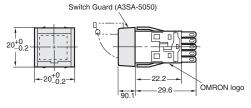
Switch Guard Dimensions When Mounted

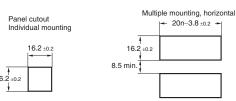




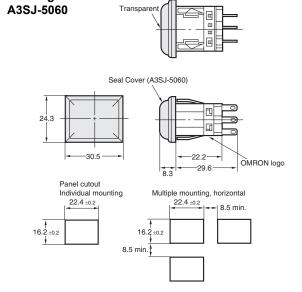
Square Models



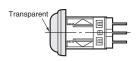


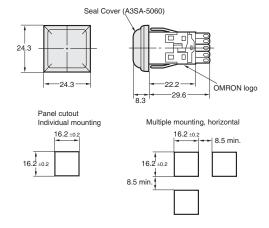


Seal Cover Dimensions When Mounted Rectangular Models



Square Models A3SA-5060





Note: 1. Use a mounting panel thickness of t = 1 to 3.3 mm.
2. Unless specified, a tolerance of ±0.4 mm applies for all dimensions.

Safety Precautions

Refer to Safety Precautions for All Pushbutton Switches/Indicators.

Precautions for Correct Use

Mounting

 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.

Wiring

- For wiring, use a wire size that is appropriate for the applied voltage and the supplied current.
- Be sure to perform soldering according to the following conditions. Using the Switch with incomplete soldering may result in errors and heat, which may cause fire.
- 1. Manual soldering: Use a soldering iron with a tip temperature of 350°C maximum and complete soldering within 3 seconds.
- Dip soldering: Solder at 350°C for 3 s or less.
 Wait for one minute after soldering before exerting any external force on the solder.
- Use non-corrosive liquid rosin as the flux.
- Make sure that the insulating sheath of the wires does not come in contact with the Unit. If wiring is performed with the insulating sheath of the wires in contact with the Unit, use wire with a minimum heat resistance of 100°C.
- After wiring the Switch, make sure that there is a suitable isolation distance.

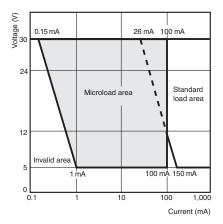
Operating Environment

 Do not use in locations that are subject to dust, oil, or metal fillings, because these may penetrate the interior of the Switch and cause malfunction.

Using Microloads

• Using a standard load switch when a microload circuit is opened or closed may cause wear 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 contacts are 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 $\lambda60 = 0.5 \times 10^{-6}$ /time indicates that the estimated malfunction rate is less than 1/2,000,000 with a reliability level of 60%.



Character Film

• If the character film is to be specially prepared, use heat-resistant film with a maximum thickness of 0.2 mm.



LEDs

- A current-limiting resistor for the LED is built in, so no external resistor is required.
- Do not apply more than the rated current to the LED. Doing so may damage the LED.

Two-color Lighting

- With two-color lighting, changing the terminal connections enables two-color (red/green) full-surface colored illumination. (Only for models with the Display color symbol K.)
- To light two colors at the same time, connect an external resistors as described in the following table.

Connection Voltage	Green: L1	Red: L2
5 V	270 Ω (1/2 W)	270 Ω (1/2 W)
12 V	900 Ω (1/2 W)	900 Ω (1/2 W)
24 V	1.8 KΩ (1/2 W)	1.8 KΩ (1/2 W)

Application

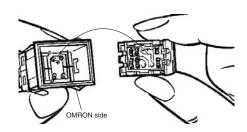
Removing the Operation Unit

- Grasp the groove on the cap surface, and pull it firmly toward you to remove the Unit
- An Extractor (A3PJ-5080) is available to conveniently remove the Display.



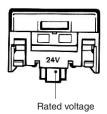
Inserting the Operation Unit into the Socket Unit

• Insert the Operation Unit in the proper direction.
Insert the Operation Unit so that the "+" indication on the back
(PCB) is lined up with the "O+" indication inside the Socket Unit.



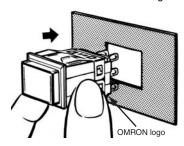
LED Rating

 \bullet The LED voltage rating is indicated on the side of the Operation Unit. Use within a range of $\pm\,5\%.$



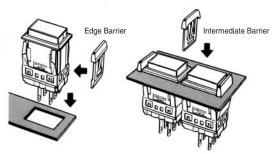
Mounting to the Switch Panel

- Mount the Socket Unit to the panel by inserting it from the front of the panel.
- Mount the Socket Unit so that the OMRON logo is at the bottom.



Barrier Mounting

- Place the Edge Barriers on the side of the Socket Unit, and then insert the Socket Unit into the panel.
- Insert the Intermediate Barrier between the Switches after inserting the Socket Units into the panel.



Inscribing Legend Plate Characters

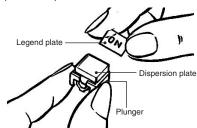
- Inscription depth: 0.5 mm max.
- The legend plate is made of polycarbonate, so apply an alcohol-based paint coating, such as melamine, phthalate, or acrylic resin paint when marking the legend.



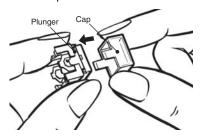
Assembling the Legend Plate (Plunger)

A3KA/M2KA

1. Assemble the dispersion plate to the plunger, and then assemble the legend plate on top.



2. Assemble the color cap.



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