Pushbutton Switch Series with Cylindrical 20-mm \times 12-dia. Body

- High-intensity uniform surface lighting.
- Round body enables easy hole making.
- Miniature size with excellent feeling of operation.



RoHS Compliant

Refer to Safety Precautions for All Pushbutton Switches and Safety Precautions on page 12.

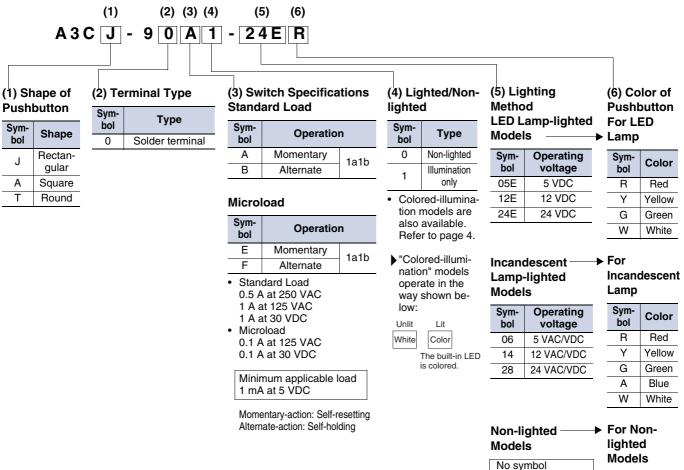
List of Models

Арр	Model	
Rectangular Models		A3CJ
Square Models		A3CA
Round Models		A3CT

■ Specifications: Refer to page 8. ■ Dimensions: Refer to page 10. ■ Accessories: Refer to page 7.
 ■ Precautions for correct use and safety precautions: Refer to page 12.

the Pushbutton, Lamp (lighted models only), and Switch, as listed in the ordering tables below.

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



Mode	ls
Sym- bol	Color
R	Red
Y	Yellow
G	Green
W	White
А	Blue
В	Black

Rectangular

Models

the Pushbutton, Lamp (lighted models only), and Switch.



Lighted Pushbutton Switches (SPST-NO+SPST-NC Solder Terminals)

	Operation	Standa	rd load	Microload	
	operation	Momentary operation (Self-resetting)	Alternate operation (Self-holding)	Momentary operation (Self-resetting)	Pushbutton
Shape	Lighting	Set	Set	Set	color symbol (Color)
		A3CJ-90A1-05E	A3CJ-90B1-05E	A3CJ-90E1-05E	R: red
	LED lamp	A3CJ-90A1-12E	A3CJ-90B1-12E	A3CJ-90E1-12E	Y: yellow G: green
		A3CJ-90A1-24E	A3CJ-90B1-24E	A3CJ-90E1-24E	W: white
Rectangular (A3CJ)		A3CJ-90A1-06			R: red
(Incandescent lamp	A3CJ-90A1-14			Y: yellow G: green
	iap	A3CJ-90A1-28	A3CJ-90B1-28	-	W: white A: blue
	Non-lighted	A3CJ-90A0-	A3CJ-90B0-	A3CJ-90E0-	B: black *
		A3CA-90A1-05E	A3CA-90B1-05E	A3CA-90E1-05E	R: red
LEI	LED lamp	A3CA-90A1-12E	A3CA-90B1-12E	A3CA-90E1-12E	Y: yellow G: green W: white
		A3CA-90A1-24E	A3CA-90B1-24E	A3CA-90E1-24E	
Square (A3CA)		A3CA-90A1-06			R: red Y: yellow G: green
	Incandescent lamp	A3CA-90A1-14			
		A3CA-90A1-28	A3CA-90B1-28		W: white A: blue
	Non-lighted	A3CA-90A0-	A3CA-90B0-	A3CA-90E0-	B: black *
		A3CT-90A1-05E	A3CT-90B1-05E	A3CT-90E1-05E	R: red
	LED lamp	A3CT-90A1-12E	A3CT-90B1-12E	A3CT-90E1-12E	Y: yellow G: green
		A3CT-90A1-24E	A3CT-90B1-24E	A3CT-90E1-24E	W: white
		A3CT-90A1-06			R: red
	Incandescent lamp	A3CT-90A1-14			Y: yellow G: green
		A3CT-90A1-28	A3CT-90B1-28		W: white A: blue
	Non-lighted	A3CT-90A0-	A3CT-90B0-	A3CT-90E0-	B: black *

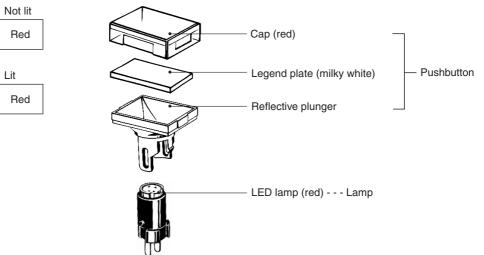
Note: 1. Enter the desired color symbol for the Pushbutton in the □ at the end of the model number. 2. There are also alternate-operation models that can be used for microloads. Refer to the Switch table on page 6.

* Black ("B") Pushbuttons are only available for non-lighted models.

Individual models: Refer to pages 5 to 6. (The Pushbutton, Lamp, and Switch can be ordered separately.)

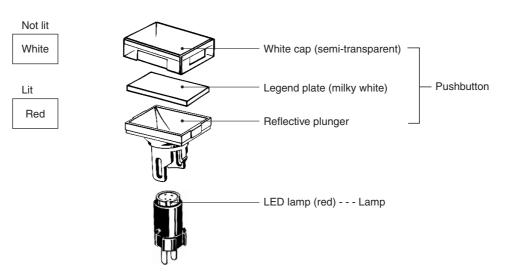
Illumination-only and Colored-illumination LED Models

"Illumination only" describes LED models for which the screen color is the same whether the LED is lit or not. 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

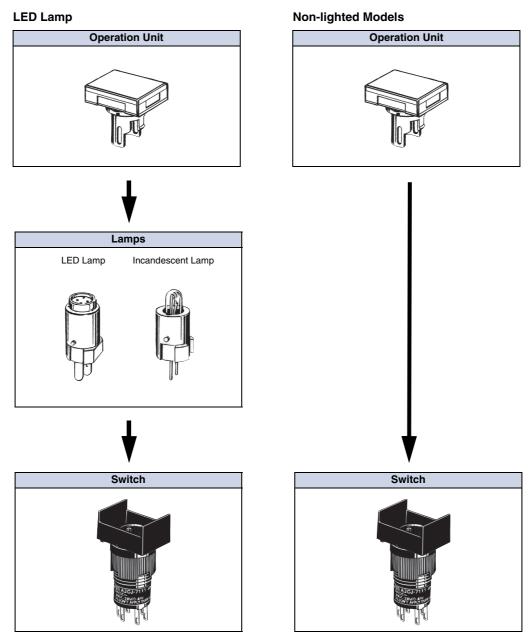


Ordering: With colored-illumination models, order the Pushbutton, Lamp, and Switch as shown in the following table.

Illuminated color	Pushbutton	Lam	p (LED)	Switch	
Red	IP40 A3C□-500W	A16-□DR	Enter one of the		
Yellow	Enter one of the following sym- bols in . J: Rectangular	bols in □. J: Rectangular	A16-□DY	following symbols in □. 5: 5 VDC 12: 12 VDC	Refer to page 6. Make the se- lection according to the shape of the Pushbutton.
Green	A: Square T: Round	A16-□DG	24: 24 VDC		

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.

Ordering: Specify a model number from the following page.



Ordering set combinations: Refer to page 3.

[■] Specifications: Refer to page 8. ■ Dimensions: Refer to page 10. Accessories: Refer to page 7.

Round

A3CT-500R

A3CT-500Y

A3CT-500G

A3CT-500W

A3CT-500A

A3CT-501B

Ordering Information

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.

Rectangular

A3CJ-500R

A3CJ-500Y

A3CJ-500G

A3CJ-500W

A3CJ-500A

A3CJ-501B

Non-lighted Models

Shape

Button color Red

Yellow

Green

White

Blue

Black

Pushbuttons

LED Lamp

Shape	Rectangular	Square	Round
Button color			OF
Red	A3CJ-500R	A3CA-500R	A3CT-500R
Yellow	A3CJ-500Y	A3CA-500Y	A3CT-500Y
Green	A3CJ-500GY	A3CA-500GY	A3CT-500GY
White	A3CJ-500W	A3CA-500W	A3CT-500W

Note: The red, yellow, and white Pushbuttons listed above can be used with either LED lamp-lighted models or incandescent lamp-lighted models.

Incandescent Lamp

Shape	Rectangular	Square	Round
Button color			
Red	A3CJ-500R	A3CA-500R	A3CT-500R
Yellow	A3CJ-500Y	A3CA-500Y	A3CT-500Y
Green	A3CJ-500G	A3CA-500G	A3CT-500G
White	A3CJ-500W	A3CA-500W	A3CT-500W
Blue	A3CJ-500A	A3CA-500A	A3CT-500A

Lamps

LED Lamp

Color	Red	Yellow	Green	White	Rated voltage	Model
Rated voltage					6 VAC/DC	A16-5
5 VDC	A16-5DR	A16-5DY	A16-5DG	A16-5DW	14 VAC/DC	A16-12
12 VDC	A16-12DR	A16-12DY	A16-12DG	A16-12DW		
					28 VAC/DC	A16-24
24 VDC	A16-24DR	A16-24DY	A16-24DG	A16-24DW		

Switches

Sealing			Degree of protection: IP40			
				Rectangular	Square	Round
			Shape			E
Contact type		Switch action	Terminal			
Standard load		Momentary	Solder	A3CJ-7011	A3CA-7011	A3CT-7011
Standard load	SPST-NO+	Alternate	Solder	A3CJ-7021	A3CA-7021	A3CT-7021
Microload	SPST NC	Momentary	Solder	A3CJ-7111	A3CA-7111	A3CT-7111
Microload		Alternate	Solder	A3CJ-7121	A3CA-7121	A3CT-7121

Ordering set combinations: Refer to page 3.

■ Specifications: Refer to page 8. ■ Dimensions: Refer to page 10. Accessories: Refer to page 7.

Incandescent Lamp

Square

A3CA-500R

A3CA-500Y

A3CA-500G

A3CA-500W

A3CA-500A

A3CA-501B

Note: Models other than black can also be used with incandescent lamps.

Accessories, Replacements, and Tools

Accessories

Name	Appearance	Classification	Model	Remarks
		Wire-wrap terminal	A3C-4101	
Socket		PCB terminal	A3C-4102	Cannot be used with Insulation Cover.
	11 11	Solder terminal	A3C-4103	
Insulation Cover			A3C-3002	Cannot be used with Socket.
Quitab Quand		For rectangular models	A3CJ-5050	
Switch Guard		For square, round models	A3CA-5050	Cannot be used with Dust Cover.
Dust Cover		For rectangular models	A3CJ-5060	Cannot be used with Switch Guard. Can be used with Dust Cover attached.

Tools

Name	Appearance	Classification	Model	Remarks
Tightening Tool			A3C-3004	The tightening torque is 0.20 to 0.39 N·m.
Extractor			A3PJ-5080	

Replacements

Name	Appearance	Classification	Model	Remarks
	\sim	For rectangular models	A3CJ-5201	
Legend Plate		For square models	A3CA-5201	One Legend Plate (milk-white) is supplied per standard Switch.
		For round models	A3CT-5201	

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

Standard Load:	0.5 A at 250 VAC	
	1 A at 125 VAC	
	1 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 (GB14048.5)

Standard Load:	0.5 A at 250 VAC
Microload:	0.1 A at 250 VAC

Ratings

Model Item	AC resistive load	DC resistive load
Standard load	0.5 A at 250 VAC 1 A at 125 VAC	1 A at 30 VDC
Microload *	0.1 A at 125 VAC	0.1 A at 30 VDC

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

1) Load: Resistive load

2) Mounting conditions: No vibrations or shock
3) Temperature: 20°C ± 2°C
4) Operation frequency: 20 operations/minute
* The minimum permissible load is 1 mA, 5 VDC.

LED Lamp

Rated voltage	Rated current	Operating voltage	Internal limiting resistance
5 VDC	30 mA	$5 \text{ VDC} \pm 5\%$	33 Ω
12 VDC	15 mA	12 VDC ± 5%	270 Ω
24 VDC	10 mA	$24 \text{ VDC} \pm 5\%$	1,600 Ω

Incandescent Lamp

Rated voltage	Rated current	Operating voltage
6 VAC/DC	60 mA	5 VAC/DC
14 VAC/DC	40 mA	12 VAC/DC
28 VAC/DC	24 mA	24 VAC/DC

Characteristics

Operat- ing fre-	Mechanical	Momentary-action models: 120 operations/minute max. Alternate-action models: 60 operations/minute max. *1
quency Electrical		20 operations/minute max.
Contact Resis- tance Microload		$50m\Omega$ max.
		100mΩ max.
Insulation resistance		100 MΩ min. (at 500 VDC)
	Between terminals of same polarity	1,000 VAC, 50/60 Hz for 1 min
Dielectric	Between terminals of different polarity	2,000 VAC, 50/60 Hz for 1 min
strength	Between each terminal and ground	2,000 VAC, 50/60 Hz for 1 min
	Between lamp terminals	1,000 VAC, 50/60 Hz for 1 min *2
Vibration resis- tance	Malfunction	10 to 55 Hz, 1.5-mm double amplitude *3
Shock Destruction resis- tance Malfunction		500 m/s ²
		150 m/s² *3
Durability	Mechanical	Momentary-operation models: 1,000,000 operations min. Alternate-operation models: 100,000 operations min. *1
	Electrical	100,000 operations min.
Weight		Approx. 5 g <the (spst-no+spst-nc).="" applies="" here="" indicated="" lighted="" models="" the="" to="" weight=""></the>
Ambient op	perating temperature	$-10^{\circ}C$ to $+55^{\circ}C$ (with no icing or condensation)
Ambient operating humidity		35% to 85%RH
Ambient storage temperature		-25°C to +65°C (with no icing or condensation)
Degree of protection		IP40
Electric shock protection class		Class II
PTI (proof tracking index)		175
Pollution degree 3 (IEC6094		3 (IEC60947-5-1)
1. With alternate-operation models, one operation cycle consists of set and		

s, op jy reset operations.

*2. The figure given above for the dielectric strength between lamp terminals is for when there is no LED lamp or incandescent lamp mounted. *3. No malfunction for more than 1s.

Operating Characteristics

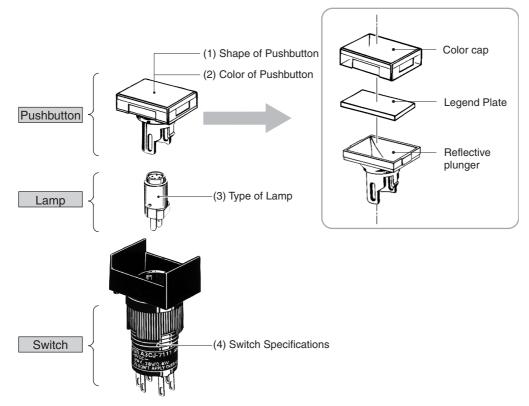
Operating force OF max.	2.45 N {250 gf}
Releasing force RF min.	0.29 N {30 gf}
Total travel TT	Approx. 3.5 mm
Lock travel alternate LTA min. *	0.5 mm
Pretravel PT max.	2.5 mm

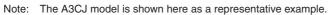
* Alternate operation models only.

Contact Form

Contact name	Contact form
SPDT	NO NO NC

Nomenclature Model Structure Display Unit Structure

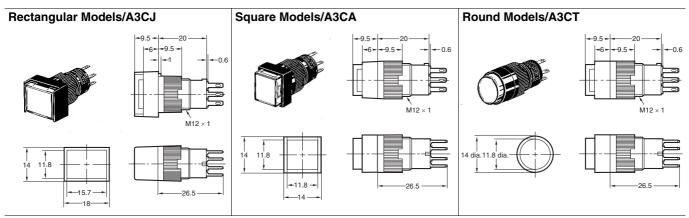




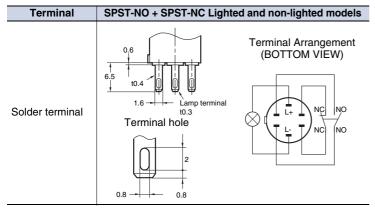
	Туре	Specifications
(1)	Shape of Pushbutton Rectangular Square Round (A3CJ) (A3CA) (A3CT)	
(2)	LED lamp-lighted Models: Red, Yellow, Green, White Incandescent lamp-lighted Models: Red, Yellow, Green, White, Blue Non-lighted Models: Red, Yellow, Green, White, Blue, Black	
(3)	LED Lamp	
(0)	Incandescent Lamp	P
(4)	Standard load	0.5 A at 250 VAC 1 A at 125 VAC 1 A at 30 VDC
	Microload	0.1 A at 125 VAC 0.1 A at 30 VDC Minimum applicable load: 1 mA at 5 VDC

(Unit: mm)

Dimensions



Terminal Connections



Panel Cutout (Top View)

Accessories used	Rectangular/A3CJ	Square/A3CA, Round/A3CT	
Switch only	12 dia. ^{40,2} 12 dia. ^{40,2} 19 min. 19 min. 12 dia. (Lock hole) 15.5±0.1 15.5±0.1 15.5±0.1 15 min. 15 min.	12 dia. ⁴⁹²	
	Note: Recommended panel thickness: 1.0 to 3.2 mm.	Note: Recommended panel thickness: 1.0 to 3.2 mm.	
With Switch Guard	12 dia. 12 dia. 22.5 min. 7.5±0.1 2 dia. 5.5±0.1 19 min. 19 min.	12 dia *0.2	
With Dust Cover	12 dia. ^{40.2} -23.5 min. -23.5 min. -23.5 min. -23.5 min. -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.5±0.1 -2.		

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

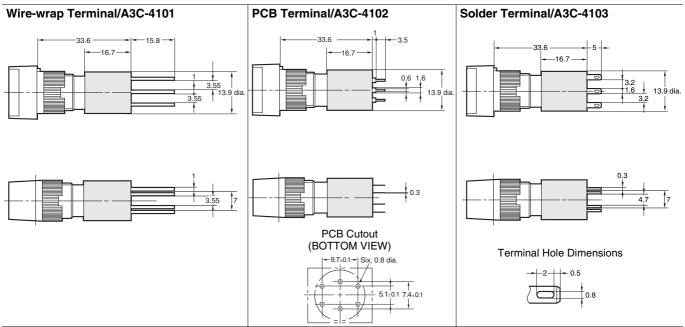
A₃C

(Unit: mm)

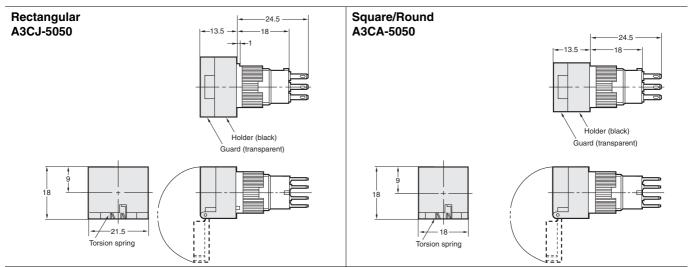
Dimensions

Accessory Mounting Dimensions

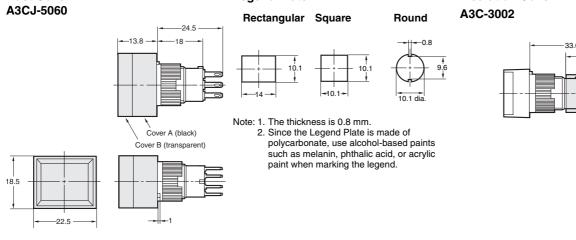
Dimensions with Socket Mounted (The diagrams below show the external dimensions for rectangular models as representative models.)



Switch Guard



Dust Cover



Legend Plate

Insulation Cover

33.6 -18 0 13.9 dia -01 0

Safety Precautions

Refer to Safety Precautions for All Pushbutton Switches.

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 lamp 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

Mounting

- To prevent electric shock or a fire, always make sure that the power is turned OFF before mounting, removing, or wiring the Switch, or performing maintenance.
- Do not tighten the mounting ring excessively using pliers or a similar tool. Excessive tightening may damage the mounting ring. (Tightening torque: 0.20 to 0.39 N·m {20 gf to 40 gf})

Wiring

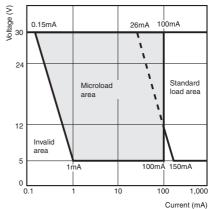
- When wiring, use wires of a size appropriate for the applied voltage and carry current. Perform soldering correctly under the conditions given below. Using the Switch with the wires soldered incorrectly may cause the terminals to become abnormally hot and cause a fire.
- 1. Soldering iron tip temperature: 350°C max. within 3 seconds.
- Dip soldering: At 350°C within 3 seconds. Wait for one minute after soldering before exerting any external
- force on the solder.Use a non-corrosive rosin liquid for the flux.
- Perform wiring so that the wire sheaths do not come into contact with the Switch. If this is unavoidable, use wires that can withstand temperatures of 100°C min.
- After wiring to the Switch has been completed, ensure an appropriate insulation distance.

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.

Using Microloads

• Using a standard load switch for opening and closing a microload circuit 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 contact is opened or closed, it may cause the contact surface to become rough, and so decrease life expectancy. Therefore, insert a contact protection circuit where necessary. The minimum applicable load is the N-level reference value. This value indicates the malfunction reference level for the reliability level of 60% (λ 60) (conforming to JIS C5003). The equation, λ 60 = 0.5 x 10⁻⁶/times indicates that the estimated malfunction rate is less than 1/2,000,000 with a reliability level of 60%.



LED

• Resistance to limit the LED current is provided internally and so an external resistance is not required.

Rated voltage	Internal limiting resistance
5 VDC	33 Ω
12 VDC	270 Ω
24 VDC	1,600 Ω

Application

Mounting and Replacing the Pushbutton

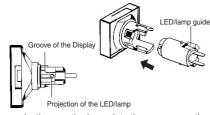
(1) Mounting Direction for the Pushbutton/Display and Lamp Lighted Pushbutton Switch

- Insert the Lamp (incandescent lamp or LED lamp) into the
- Pushbutton so that the lamp guide fits into the wider gap between the projections on the Pushbutton.



Indicator

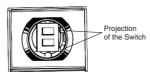
• With Indicators, the Lamp is inserted facing the opposite direction (i.e., at 180°) to that for Lighted Pushbutton Switches.



Note: Push the projections on the Lamp into the grooves on the Pushbutton/ Display.

The Lamp for Lighted Pushbutton Switches moves, but the Lamp for Indicators is fixed.

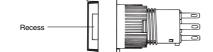
- (2) Mounting Direction for the Pushbutton/Display and Switch
- Insert the Pushbutton/Display into the Switch so that the lamp guide is aligned with the non-projecting part of the Switch.
- Apply a pressure between 9.8 and 24.5 N.



- Note: 1. The mounting direction for Indicators is 180° to that for Lighted Pushbutton Switches. Be sure to insert the Legend Plate and other parts with the correct orientation.
 - If the terminals of the Lamp become bent, it may be impossible to fit them into the lamp terminal holes. Ensure that the terminals are straight when they are inserted.
 - 3. Take particular care about the mounting direction with the round models (A3CT).

(3) Removing the Pushbutton/Display

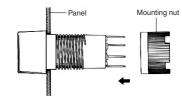
Hold the recessed portions on the cap of the Pushbutton and pull.



Note: Do not use tools such as pliers to remove the Pushbutton as this may damage the cap.

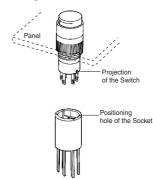
Panel Mounting

- Insert the Switch from the front of the panel. Mount the mounting nut from the terminal end of the Switch and tighten it.
- There are projections on the terminal end of the Switch which may, depending on the orientation, block the nut. In this case, turn the nut until it is possible to mount it. Tighten the nut to a torque between 0.20 and 0.39 N·m.
- If soldering is used, mount the mounting nut first. Lead wires and mounds of solder may make it impossible to mount the nut after soldering.



Socket Mounting

- After securing the Switch to the panel using the mounting nut, insert the Socket into the Switch.
- Align the positioning holes of the Socket with the projections of the Switch before inserting the Socket.



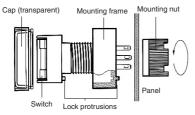
Mounting the Insulation Cover

- After securing the Switch to the panel using the mounting nut, pass the lead wires through the holes in the Insulation Cover and then perform wiring. Hold the Insulation Cover so that the cylindrical hole is facing the Switch, and insert the lead wires from the end with the barriers.
- After wiring is completed, mount the Insulation Cover by pushing it into the Switch.



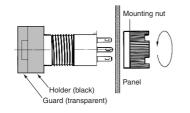
Mounting the Dust Cover

- 1. The Dust Cover separates into 2 parts: the cap and the mounting frame.
- 2. Insert the Switch into the mounting frame. (Align the lock projection with the recess on the mounting frame.)
- Insert the Switch in the state described in step 2 into the panel. (Align the lock protrusion on the mounting frame with the hole in the panel.)
- 4. Mount the mounting nut from the back of the panel and tighten it.
- 5. Insert the cap into the mounting frame. Ensure that the entire perimeter of the cap is properly inserted into the mounting frame by pressing down on the cap from different directions.



Mounting the Switch Guard

- 1. Insert the Switch into the Switch Guard.
- 2. Insert the Switch into the panel in the state described in step 1.
- 3. Mount the mounting nut from the back of the panel and tighten it.



Application examples provided in this document are for reference only. In actual applications, confirm equipment functions and safety before using the product.
 Consult your OMRON representative before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad systems, aviation systems, vehicles, combustion systems, medical equipment, amusement machines, safety equipment, and other systems or equipment that may have a serious influence on lives and property if used improperty. Make sure that the ratings and performance characteristics of the product provide a margin of safety for the system or equipment, and be sure to provide the system or equipment with double safety mechanisms.

Note: Do not use this document to operate the Unit.

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