

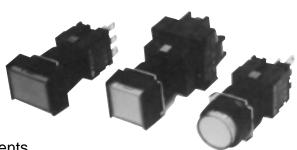
# Lighted Pushbutton Switch

A3G

### **Control Units**

Assembled Lighted Pushbutton Switches and Separate-Unit Type 16-mm Cylindrical Series

- Lighted and non-lighted/convex versions
- Pushbutton/Indicator Types available
- Oil-resistant: complies with IP65 seal requirements
- Accommodates panel thicknesses of .5 to 5 mm
- Available with screw/#110 tab solder terminals
- Snap-in, snap-out switch units simplify wiring and maintenance









### Ordering Information\_\_\_\_\_

### ■ ASSEMBLED TYPES

#### Lighted

			Part Number		
Operator	Circuit	Color	Round	Rectangular	Square
Pushbutton	Momentary	Red	A3GT-99C1-H1ND	A3GJ-99C1-H1ND	A3GA-99C1-H1ND
			A3GT-99C1-H1NG	A3GJ-99C1-H1NG	A3GA-99C1-H1NG
		White	A3GT-99C1-H1NW	A3GJ-99C1-H1NW	A3GA-99C1-H1NW
	Maintained	Red	A3GT-99D1-H1ND	A3GJ-99D1-H1ND	A3GA-99D1-H1ND
		Green	A3GT-99D1-H1NG	A3GJ-99D1-H1NG	A3GA-99D1-H1NG
		White	A3GT-99D1-H1NW	A3GJ-99D1-H1NW	A3GA-99D1-H1NW
Indicator		Red	M2GT-99A1-H1ND	M2GJ-99A1-H1ND	M2GA-99A1-H1ND
		Green	M2GT-99A1-H1NG	M2GJ-99A1-H1NG	M2GA-99A1-H1NG
		White	M2GT-99A1-H1NW	M2GJ-99A1-H1NW	M2GA-99A1-H1NW

Note: Above switches offer double pole, double throw NO/NC contacts with screw terminals; lighted type pushbuttons offer neon lamps at 110 VAC; and all are fully assembled.

#### ■ ASSEMBLED TYPES continued

### Non-lighted/Convex

A3G :

			Part Number		
Operator	Circuit	Color	Round	Rectangular	Square
Pushbutton	Momentary	Red	A3GT-99C0-R	A3GJ-99C0-R	A3GA-99C0-R
		Yellow	A3GT-99C0-Y	A3GJ-99C0-Y	A3GA-99C0-Y
		Green	A3GT-99C0-G	A3GJ-99C0-G	A3GA-99C0-G
Maintaine		Black	A3GT-99C0-B	A3GJ-99C0-B	A3GA-99C0-B
	Maintained	Red	A3GT-99D0-R	A3GJ-99D0-R	A3GA-99D0-R
		Yellow	A3GT-99D0-Y	A3GJ-99D0-Y	A3GA-99D0-Y
		Green	A3GT-99D0-G	A3GJ-99D0-G	A3GA-99D0-G
		Black	A3GT-99D0-B	A3GJ-99D0-B	A3GA-99D0-B
Mushroom Cap	Momentary	Red	A3GT-99C2-R	A3GJ-99C2-R	A3GA-99C2-R
	Maintained	Red	A3GT-99D2-R	A3GJ-99D2-R	A3GA-99D2-R

Note: Above switches offer double pole, double throw NO/NC contacts with screw terminals; lighted type pushbuttons offer neon lamps at 110 VAC; and all are fully assembled.

#### **■ SEPARATE TYPE PUSHBUTTON UNITS**

### **Lighted Switches**



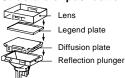


Rectangular

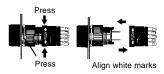


Square

Structure of pushbutton



Note: The legend plate and reflective plunger are bonded together on the IP65 Oil-resistant type only.



Snap-in switch unit greatly improves wiring efficiency. Simply insert the switch unit for complete connection.

Press the part indicated PUSH on the switch unit and pull to remove.

Align white marks to insert.

	Degree		Part Number		
Switch Type	of Sealing	Color	Round	Rectangular	Square
LED	Dust Proof	Red	A3BT-500R	A3BJ-500R	A3BA-500R
	IP40	Yellow	A3BT-500Y	A3BJ-500Y	A3BA-500Y
		Green*	A3BT-500GY	A3BJ-500GY	A3BA-500GY
		White	A3BT-500W	A3BJ-500W	A3BA-500W
	Oil-resistant	Red	A3BT-510R	A3BJ-510R	A3BA-510R
	IP65	Yellow	A3BT-510Y	A3BJ-510Y	A3BA-510Y
		Green*	A3BT-510GY	A3BJ-510GY	A3BA-510GY
		White	A3BT-510W	A3BJ-510W	A3BA-510W
Incandescent Lamps	IP40	Green*	A3BT-500G	A3BJ-500G	A3BA-500G
		Blue	A3BT-500A	A3BJ-500A	A3BA-500A
	Oil-tight IP65	Green*	A3BT-510G	A3BJ-510G	A3BA-510G
		Blue	A3BT-510A	A3BJ-510A	A3BA-510A
Neon Lamps	Dust Proof	Orange	A3GT-500D	A3GJ-500D	A3GA-500D
	IP40	Green	A3GT-500GN	A3GJ-500GN	A3GA-500GN
		White	A3GT-500WN	A3GJ-500WN	A3GA-500WN
	Oil-resistant	Orange	A3GT-510D	A3GJ-510D	A3GA-510D
	IP65	Green	A3GT-510GN	A3GJ-510GN	A3GA-510GN
		White	A3GT-510WN	A3GJ-510WN	A3GA-510WN

- Note: 1. Pushbutton units, lamps (lighted type only), case, and socket must be ordered separately. Example: Pushbutton unit A3BJ-500R, Case A3GJ-6011-1, Socket A3G-4011.
  - 2. Illumination: red, yellow, and white use either LED or incandescent lamps.
  - 3. With the exception of green, all pushbutton units can be used with either LED or incandescent lamps. To avoid an undesirable hue change with green pushbutton units, use a green LED lamp with a green LED pushbutton and an incandescent lamp with a green incandescent pushbutton.

# Round





### Non-lighted/Convex Switches

	Degree		Part Number		
Switch Type	of Sealing	Color	Round	Rectangular	Square
Convex	Dust Proof	Red	A3BT-502R	A3BJ-502R	A3BA-502R
	IP40	Yellow	A3BT-502Y	A3BJ-502Y	A3BA-502Y
		Green	A3BT-502G	A3BJ-502G	A3BA-502G
		White	A3BT-502W	A3BJ-502W	A3BA-502W
		Blue	A3BT-502A	A3BJ-502A	A3BA-502A
		Black	A3BT-502B	A3BJ-502B	A3BA-502B
	Oil-resistant	Red	A3BT-512R	A3BJ-512R	A3BA-512R
	IP65	Yellow	A3BT-512Y	A3BJ-512Y	A3BA-512Y
		Green	A3BT-512G	A3BJ-512G	A3BA-512G
		White	A3BT-512W	A3BJ-512W	A3BA-512W
		Blue	A3BT-512A	A3BJ-512A	A3BA-512A
		Black	A3BT-512B	A3BJ-512B	A3BA-512B

LED

ncandescent

Noon







### Lamps

				NAC.	- 0
			Part Number		
Туре		Color	5 VDC	12 VDC	24 VDC
LED Light		Red	A3B-005R	A3B-012R	A3B-024R
		Yellow	A3B-005Y	A3B-012Y	A3B-024Y
		Green	A3B-005G	A3B-012G	A3B-024G
		White	A3B-005W	A3B-012W	A3B-024W
Incandescent Lar	mp		14 V	28 V	
			A3B-014	A3B-028	
Neon Lamp	Pushbutton Color	Lamp Color	110 V	220 V	
	White or Orange	Orange	A3B-H1ND	A3B-H2ND	_
	Green	Green	A3B-H1NG	A3B-H2NG	

### Cases

	Switch	Part Number		
 Туре	Action	Round	Rectangular	Square
Dust Proof	Momentary	A3GT-6011-1	A3GJ-6011-1	A3GA-6011-1
IP40	Alternating	A3GT-6021-1	A3GJ-6021-1	A3GA-6021-1
	Indicator	M2GT-7001-1	M2GJ-7001-1	M2GA-7001-1
Oil-resistant	Momentary	A3GT-6011-3	A3GJ-6011-3	A3GA-6011-3
IP65	Alternating	A3GT-6021-3	A3GJ-6021-3	A3GA-6021-3
	Indicator	M2GT-7001-3	M2GJ-7001-3	M2GA-7001-3

### **Sockets**

	Contact Ratings		Terminal Type	Part Number
	General Purpose Loads	SPDT	Solder	A3G-4011
		DPDT	Solder	A3G-4021
			Screw	A3G-4024
Microloa	Microloads	SPDT	Solder	A3G-4111
		DPDT	Solder	A3G-4121
			Screw	A3G-4124
State of the state	Indicator	_	Solder	M2G-4901
		_	Screw	M2G-4904

Note: 1. Pushbutton units, lamps (lighted type only), case, and socket must be ordered separately. Example: Pushbutton unit A3BJ-500R, Case A3GJ-6011-1, Socket A3G-4011.

2. Illumination: red, yellow, and white use either LED or incandescent lamps.

Switch Guard











Legend Panel







### **Accessories**

		Part Number		
Description	Remarks	Round	Rectangular	Square
Switch Guard	Cannot be used with dust cover.	A3BT-5050	A3BJ-5050	A3BA-5050
Dust Cover	Cannot be used with switch cover.	A3BT-5060	A3BJ-5060	A3BA-5060
Spring Mounting Clip for snap-in mounting	Cannot be used with mounting nut. Recommended panel thickness is 0.5 to 3.5 mm	A3B-3001		
Panel Plug	Can be plugged into pre-cut panel holes for future expansion.	A3BT-3003	A3BJ-3003	A3BA-3003
Screw Fitting	Convenient for ganged installation. Do not overtighten.	A3B-3004		
Extractor	Convenient for extracting pushbutton switches.	A3PJ-5080		

				Part Number		
Description	Remarks	Туре	Opacity	Round	Rectangular	Square
Legend Panel	A single legend panel	Dust Proof	Milky	A3BT-5201	A3BJ-5201	A3BA-5201
	(transparent) is included with standard products.	IP40	Transparent	A3BT-5202	A3BJ-5202	A3BA-5202
		Oil-resistant	_	A3BT-5203	A3BJ-5203	A3BA-5203
		IP65				

Description	Remarks	Classification	Terminal Type	Part Number
Switch Unit	Replacement part.	General purpose loads	Solder	A3G-3011
		Microloads	Solder	A3G-3111
		Dummy	_	A3G-3000

400	OMRON	400
A3G		A3G

# Specifications \_\_\_\_\_

### **■ SEPARATE TYPE**

### **Contact Ratings**

Туре	AC Resistant Load	DC Resistant Load
General purpose load	250 VAC 3 A	30 VDC 3 A
	125 VAC 5 A	_
Microload*	125 VAC 0.1 A	30 VDC 0.1 A

<sup>\*</sup> Minimum applicable load is 1 mA at 5 VDC.

### **LED Ratings**

Rated Voltage	Rated Current	Operating Voltage
5 VDC	30 mA	5 VDC ± 5%
12 VDC	15 mA	12 VDC ± 5%
24 VDC	10 mA	24 VDC ± 5%

### **Incandescent Lamp Ratings**

Rated Voltage	Rated Current	Operating Voltage
14 V	40 mA	12 V
28 V	24 mA	24 V

### **Neon Lamp Ratings**

Rated Voltage	Rated Current	Operating Voltage
110 VAC	1.5 mA	100 VAC ± 10%
220 VAC	1.5 mA	200 VAC ± 10%

Operating Temperature	Operating Humidity	Storage Temperature
-10° to 55° C (with no icing)	35 to 85% RH	-25° to 65° C

Note: All switch models have a built-in current-limiting resistor (for use with LED).

### **■ ASSEMBLED SWITCHES**

### **Construction Data**

Termination	PC board terminals
Mounting style	Nut mounting; snap-in panel mounting (Pushbutton)
Packaging method	Carton

# Characteristic Data \_\_\_\_\_

### **■ ASSEMBLED SWITCHES**

Pushbutton unit color	LED - Lighted	1	Red, Yellow, Green, White	
Incandescent lamp - Lighted  Neon lamp - Lighted				
		· · ·	Red, Yellow, Green, White, Blue	
		Lighted	Red, Green, White	
		Convex	Red, Yellow, Green, White, Blue, Black	
Switch unit color			Black	
Contact form	Pushbutton, I	Key, Selector	SPDT or DPDT	
Resistive load	Pushbutton, I	Key, Selector	3 A, 250 VAC/5 A, 125 VAC; 3 A, 30 VDC	
Service life - Pushbutton	Service life - Pushbutton Mechanical Momentary action		1,000 x 10 <sup>3</sup> operations min.	
		Alternating action	200 x 10 <sup>3</sup> operations min.	
	Electrical		100 x 10 <sup>3</sup> operations min.	
Service life - Key Mechanical			200 x 10 <sup>3</sup> operations min.	
			Key insertion/removal: 10 x 10 <sup>3</sup> times min	
	Electrical		100 x 10 <sup>3</sup> operations min.	
Service life - Selector Mecha			200 x 10 <sup>3</sup> operations min.	
	Electrical		100 x 10 <sup>3</sup> operations min.	
Accessories - Pushbutton			Switch guard, dust cover, spring mounting clip, panel plug, screw fitting, legend plate, extractor	
Accessories - Key			Panel plug, screw fitting	
Accessories - Selector			Panel plug, screw fitting	
Series product			Microload version, socket terminal	

Note: Data shown are of initial value.

### ■ NON-LIGHTED/CONVEX PUSHBUTTON SWITCHES

Allowable operating	Mechanical	Momentary action	120 operations / min. max.		
frequency		Alternating action	60 operations / min. max.		
Electrical			20 operations / min. max.		
Insulation resistance	Insulation resistance		100 M $\Omega$ min. (at 500 VDC)		
Dielectric strength			1,000 VAC, 50/60 Hz for 1 minute between terminals of same polarity		
			2,000 VAC, 50/60 Hz for 1 minute between terminals of different polarity and also between each terminal and ground*		
Vibration	Malfunction		10 to 55 Hz, 1.5 mm double amplitude		
Shock	Shock Durability		Approx. 500 m/s <sup>2</sup> (50 G)		
	Malfunction		Approx. 150 m/s <sup>2</sup> (15 G)		
Service life	rvice life Mechanical Momentary operation		2,000,000 operations min.		
		Alternating operation	200,000 operations min.		
	Electrical		100,000 operations min.		
Degree of protection (IEC)	-		IP40/IP65 (Oil-resistant)		
Weight			Approx. 13 g (for lighted type 2-contact switches with solder terminals)		

<sup>\*</sup> With LED and incandescent lamp not mounted.

#### **■ OPERATING CHARACTERISTICS**

	Non-lighted/Convex Pushbutton Switches			
	Dust Proof IP40	Dust Proof IP40		P65
Features	SPDT	DPDT	SPDT	DPDT
Operating force (OF) max.	250 G	450 G	300 G	500G
Releasing force (RF) min.	30 G	_	_	_
Total Travel (TT)	Approx. 3 mm	_	_	<b>—</b> -
Pretravel (PT) max.	2.5 mm	_	_	_
Lock stroke (LTA) min.*	0.5 mm	_	_	_
Set position (SP)	_	_	_	_

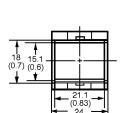
<sup>\*</sup> Lock stroke is only for alternating operation.

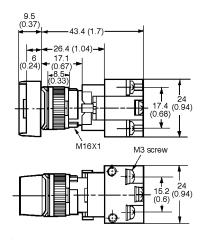
### Dimensions\_

Unit: mm (inch)

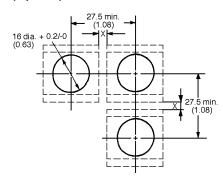
### ■ ASSEMBLED SWITCH

Square with screw terminals





# Panel cutout (top view)



Note: The above panel cutout diagram applies when the X dimension (the space between terminals of different polarity) is maintained at 3.5 mm.

When the X dimension is not required, switches may be mounted at 24.5 mm for the general-purpose pushbutton type, or at 26 mm for the rectangular concave type.

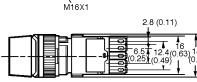
#### **■ LIGHTED TYPE PUSHBUTTON SWITCHES**

Rectangular (A3GJ) with solder terminals

18 15.1 (0.7) (0.6)

> 21.1 (0.83) 24 (0.94)

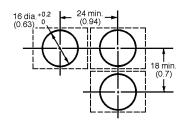




16.1 16.1 18 (0.41) 18 (0.41) 10.63)

---40.1 (1.58) ---32.7 (1.29)-17 (0.67)

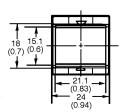
# Panel cutout (top view)

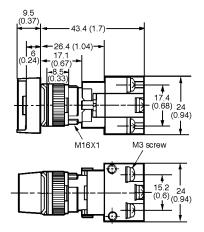


- Note: 1. Recommended panel thickness is 0.5 to 5 mm.
  - When using the spring mounting clip for snap-in mounting, the panel cutout becomes 16.2 <sup>+0.3</sup><sub>0</sub> mm in diameter.

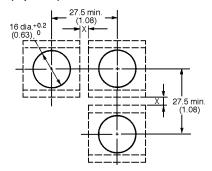
### ■ LIGHTED TYPE PUSHBUTTON SWITCHES continued

## Rectangular (A3GJ) with screw terminals





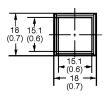
## Panel cutout (top view)

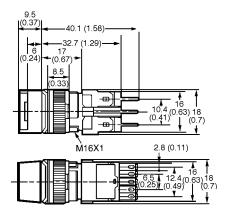


Note: The above panel cutout diagram applies when the X dimension (the space between terminals of different polarity) is maintained at 3.5 mm.

When the X dimension is not required, switches may be mounted at 24.5 mm for the general-purpose pushbutton type, or at 26 mm for the rectangular concave type.

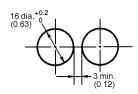
# Square (A3GA) with solder terminals





Dimensions for models with screw terminals have been omitted. Refer to the dimensions for the rectangular type.

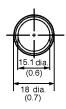
# Panel cutout (top view)

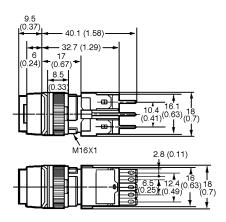


Note: 1. Recommended panel thickness is 0.5 to 5 mm.

 When using the spring mounting clip for snap-in mounting, the panel cutout becomes 16.2 <sup>0.3</sup> mm in diameter, and recommended panel thickness is 0.5 to 3.5 mm.

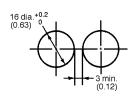
### Round (A3GT) with solder terminals





Dimensions for models with screw terminals have been omitted. Refer to the dimensions for the rectangular type.

# Panel cutout (top view)

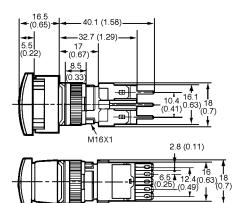


Note: 1. Recommended panel thickness is 0.5 to 5 mm.

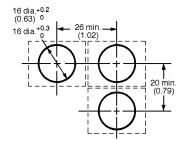
 When using the spring mounting clip for snap-in mounting, the panel cutout becomes 16.2 +0.3 mm in diameter, and recommended panel thickness is 0.5 to 3.5 mm.

#### **■ CONVEX TYPE PUSHBUTTON SWITCH**

### Rectangular (A3GJ) with solder terminals



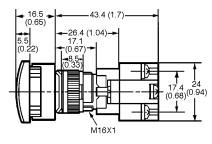
### Panel cutout (top view)

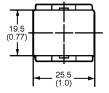


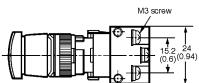
Note: 1. Recommended panel thickness is 0.5 to 5 mm.

 When using the spring mounting clip for snap-in mounting, the panel cutout becomes 16.2 <sup>+0.3</sup><sub>0</sub> mm in diameter, and recommended panel thickness is 0.5 to 3.5 mm.

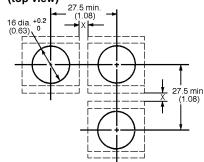
### Rectangular (A3GJ) with screw terminals





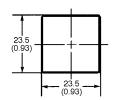


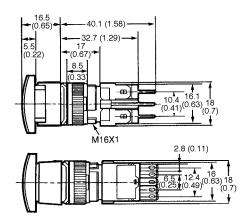
### Panel cutout (top view)



Note: The above panel cutout diagram applies when the X dimension (the space between terminals of different polarity) is maintained at 3.5 mm. When the X dimension is not required, switches may be mounted at 24.5 mm for the general-purpose pushbutton type, or at 26 mm for the rectangular concave type. The pitch should be as large as possible to maintain space to extend the lead wire and make it easier to wire.

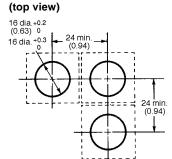
## Square (A3GA) with solder terminals





Dimensions for models with screw terminals have been omitted. Refer to the dimensions for the rectangular type.

### Panel cutout

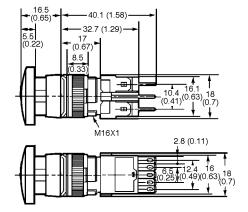


Note: 1. Recommended panel thickness is 0.5 to 5 mm.

 When using the spring mounting clip for snap-in mounting, the panel cutout becomes 16.2 <sup>+0.3</sup> mm in diameter, and recommended panel thickness is 0.5 to 3.5 mm.

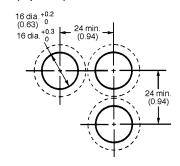
#### **■ CONVEX TYPE PUSHBUTTON SWITCHES continued**

## Round (A3GT) with solder terminals



Dimensions for models with screw terminals have been omitted. Refer to the dimensions for the rectangular type.

## Panel cutout (top view)

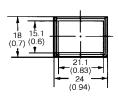


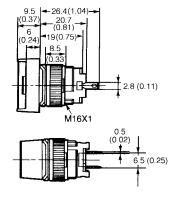
Note: 1. Recommended panel thickness is 0.5 to 5 mm.

 When using the spring mounting clip for snap-in mounting, the panel cutout becomes 16.2 <sup>+0.3</sup><sub>-0.0</sub> mm in diameter, and recommended panel thickness is 0.5 to 3.5 mm.

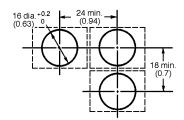
#### **■ INDICATORS**

## Rectangular indicator (M2GJ) with solder terminals





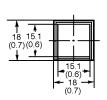
# Panel cutout (top view)

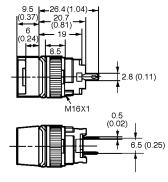


Note: 1. Recommended panel thickness is 0.5 to 5 mm.

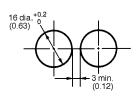
 When using the spring mounting clip for snap-in mounting, the panel cutout becomes 16.2 <sup>+0.3</sup> mm in diameter, and recommended panel thickness is 0.5 to 3.5 mm.

# Square indicator (M2GA) with solder terminals





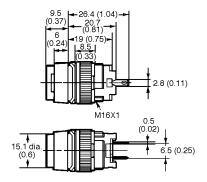
# Panel cutout (top view)



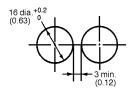
Note: 1. Recommended panel thickness is 0.5 to 5 mm.

 When using the spring mounting clip for snap-in mounting, the panel cutout becomes 16.2 <sup>+0.3</sup> mm in diameter, and recommended panel thickness is 0.5 to 3.5 mm.

### Round indicator (M2GT) with solder terminals



# Panel cutout (top view)



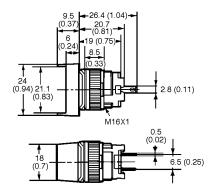
Note: 1. Recommended panel thickness is 0.5 to 5 mm.

 When using the spring mounting clip for snap-in mounting, the panel cutout becomes 16.2 <sup>+0.3</sup><sub>0</sub> mm in diameter, and recommended panel thickness is 0.5 to 3.5 mm.

#### **■ CASES**

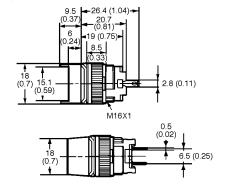
### Rectangular

A3GJ-6011-1 A3GJ-6011-3 A3GJ-6021-1 A3GJ-6021-3



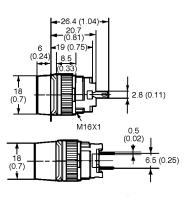
### Square

A3GA-6011-1 A3GA-6011-3 A3GA-6021-1 A3GA-6021-3



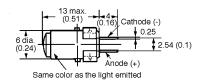
#### Round

A3GT-6011-1 A3GT-6011-3 A3GT-6021-1 A3GT-6021-3

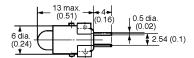


### **■ LAMPS**

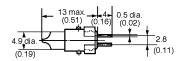
### LED



#### Incandescent Lamp



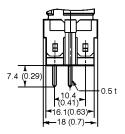
#### **Neon Lamp**



### ■ SOLDER TERMINALS

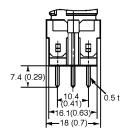
#### SPDT switch

Lighted type



#### **DPDT** switch

Lighted type



#### Indicator

Display lamp



#### Dimensions of terminal holes



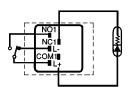
Dimensions of terminal holes



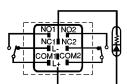
Dimensions of terminal holes



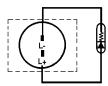
Terminal arrangement (bottom view)



Terminal arrangement (bottom view)

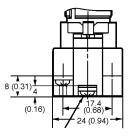


Terminal arrangement (bottom view)



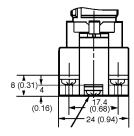
### **■ SCREW TERMINALS**

#### SPDT switch



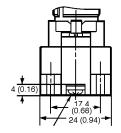
Five, M3 x 6 Phillips screws with washers

**DPDT** switch



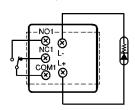
Eight, M3 x 6 Phillips screws with washers

Indicator

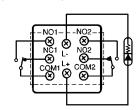


Two, M3 x 6 Phillips screws with washers

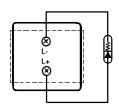
# Terminal arrangement (bottom view)



Terminal arrangement (bottom view)

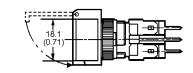


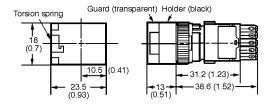
Terminal arrangement (bottom view)



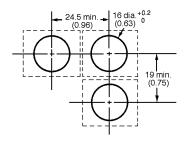
### **■ WITH INSTALLED SWITCH GUARD**

### Rectangular types

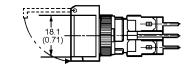


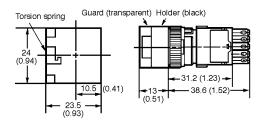


# Panel cutout (top view)

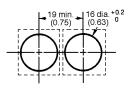


#### **Square and Round types**



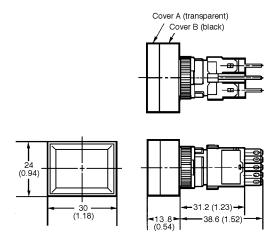


Panel cutout (top view)

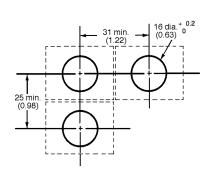


#### **■ WITH MOUNTED DUST COVER**

#### Rectangular types

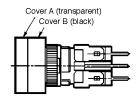


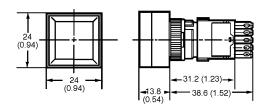
# Panel cutout (top view)



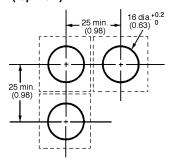
### **■ WITH MOUNTED DUST COVER continued**



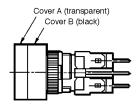


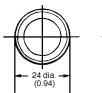


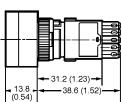
Panel cutout (top view)



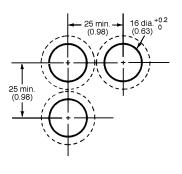
### Round type





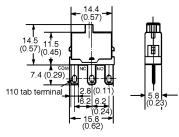


Panel cutout (top view)

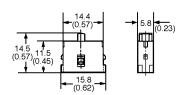


#### **■ SWITCH UNIT**

**A3G-3**□□□

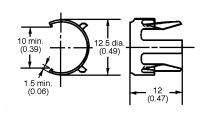


Dummy A3G-3000

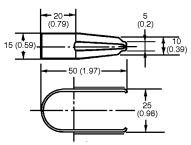


### **■ MOUNTING CLIP**

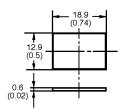
## Spring mounting clip for snap-in mounting A3B-3001

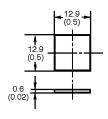


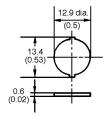
#### Extractor



### **■ LEGEND PLATES**





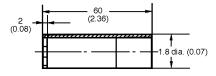


Note: The plate is 0.6 mm thick and made of polycarbonate resin (IP40) or polyacrylate (IP65).

### **■ SCREW FITTING**

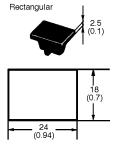
### A3G-3004

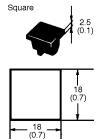


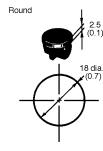


### **■ PANEL PLUG**

Select the plug that fits the panel design and mount from the front of the panel. Panel cutouts are the same as those for switches.





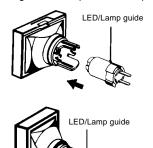


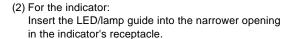
# Assembly/Disassembly \_

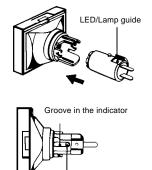
#### ■ MOUNTING AND REPLACING THE OPERATING SECTION

#### Mounting directions of the LED/lamp for the pushbutton unit

(1) For the lighted type switch: Fit the LED/lamp so that its guide projection is inserted into the wider opening in the receptacle of the pushbutton unit.



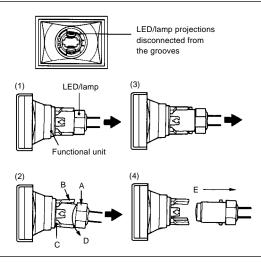




Note: Push the LED/lamp projections into the base groove. The LED/lamp is flexibly mounted when used for illumination and is rigidly mounted when used for indicators.

#### Removing lamp from the pushbutton unit

Position the functional unit as shown in (1). Press down on the LED/lamp angling it in the direction indicated by A. Side B of the LED/lamp disconnects and side C angles away from the pushbutton unit so that it looks like (2). Turn the LED/lamp in the direction indicated by D. The LED/lamp projections (2 locations) will disconnect from the LED/lamp groove so that it looks like (3). Pull in the E direction and remove the LED/lamp.

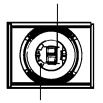


### Mounting directions for the pushbutton unit and the switch unit

Insert the LED/lamp unit into the aperature of the switch unit with the LED/lamp unit's guide facing the side of the aperature mouth that does not have the two projections. The pressure applied during insertion should be 2.5 kg min.

Note: Since the mounting directions of the pushbutton unit are the opposite for the lighted type switch and the indicator application, pay special attention to the direction of the legend plate.

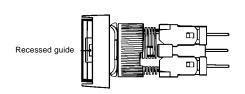
Projections of the switch unit



Face the guide of the LED/lamp unit toward the side without the projections

#### Removing the pushbutton unit

Pull the cap of the functional unit while holding the recessed guide on both sides.



Note: Do not use radio pliers to remove the cap as they may cause damage.

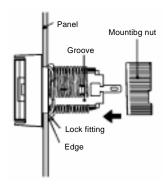
### Mounting

A3G =

After installing the main unit, mount the socket unit on the panel surface.

#### **■ NUT MOUNTING**

Insert the switch unit from the front of the panel. Place the lock fitting and mounting nut on the terminal side and tighten the mounting nut. For the IP65 type, use the rubber seal. Align the anti-turn piece with the grooves and insert it so that the edge section faces the panel. Tighten the mounting to a torque of 10 kg-cm or less.

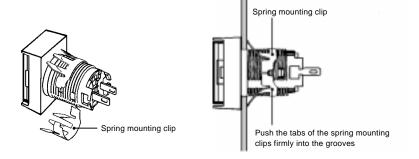


#### **■ SNAP-IN MOUNTING**

Fit the spring mounting clip for snap-in mounting to the switch unit. Insert the tab of the spring mounting clip into the two grooves on the threaded part of the switch unit.

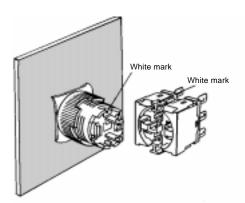
Note: Be sure to use two spring mounting clips and see that each is firmly inserted into the grooves. Do not use for IP65-type switches.

Insert the switch unit from the front of the panel and secure it.



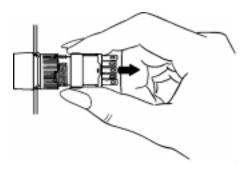
#### **■ SOCKET MOUNTING**

Mount the socket to the switch unit. As the socket mounts to the switch unit in only one direction, the white mark on the switch unit and that on the socket must be aligned for mounting.



#### **■ REMOVING SOCKET**

Press the Lock button on the socket and pull to remove. Pull straight off when removing the socket.



# OMRON

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