

# Selector Switches

## A22NS/A22NW

**22-mm Selector Switches**  
**Universal Design.**  
**Emphasis on Color Coding,**  
**Workability, and Safety.**



**Easy to Use**

- You can connect up to three Contact Blocks in one stage for multistage expansion.
- Screw terminal structure is compatible with round crimp terminals.

**Safety**

- Easy-to-operate lock lever for secure locking.
- Easy-mounting Contact Blocks provide finger protection.
- Different colors of Contact Blocks (NO: blue, NC: orange) help prevent wiring errors.

**Product Lineup**

- Meets global safety standards.
- Available in metal and plastic bezels.
- Many color variations.
- Standard-feature degree of protection: IP66, NEMA 4X, and NEMA 13.

Refer to *Safety Precautions for All Pushbutton Switches/Indicators* and *Safety Precautions in the A22NN/A22NL* datasheet

### Operation Unit Colors

		Red	Green	Yellow	White	Blue	Black		
Non-lighted Switches	A22NS-□□□-N□ Opaque								
		Red	Green	Yellow	White	Blue	Orange	White	
Lighted Switches	A22NW-□□□-T□ Transparent	When not lit							
		When lit	Red	Green	Yellow	White	Blue	Orange	Opaque white*

\* The colors when the Switches are lit are for transparent white Operation Units (code: TW) and yellow LED Lamps (code: Y).

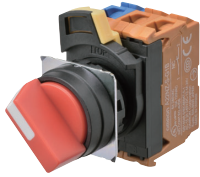
# A22NS/A22NW

## List of Models

### Plastic Switches

Non-lighted

Two Positions



Three Positions



Lighted

Two Positions



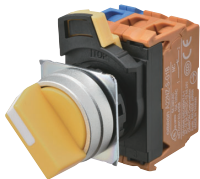
Three Positions



### Brushed Metal Switches

Non-lighted

Two Positions

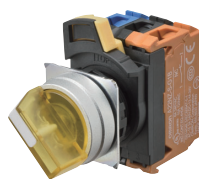


Three Positions



Lighted

Two Positions



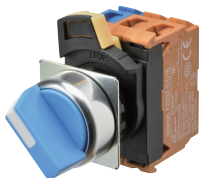
Three Positions



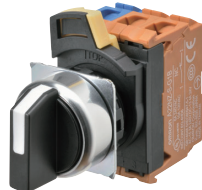
### Metal Switches

Non-lighted

Two Positions

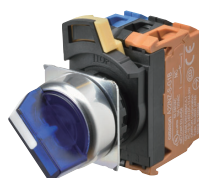


Three Positions

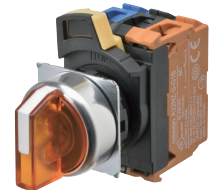


Lighted

Two Positions



Three Positions



Note: Not all assembled configurations are possible.  
Please refer to the subassemblies section for additional options.  
Please refer to the specifications section for examples of linked contact block options.

## Model Number Structure

**Model Number Legend** - Shipped as a set that includes the Operation Unit, LED Lamp, Mounting Collar, and Contact Block.  
For information on combinations, refer to *Ordering Information* on pages 6 to 8.

### Model Numbers for Sets

A 22 N <sup>(1)</sup> W - <sup>(2)</sup> 2B <sup>(3)</sup> M - <sup>(4)</sup> NR <sup>(5)</sup> A - <sup>(6)</sup> G <sup>(7)</sup> 101 - <sup>(8)</sup> R <sup>(9)</sup> A



#### (1) Type

Code	Type
S	Non-lighted
W	Lighted

#### (2) Number of Positions and Bezel Material

Code	No. of positions	Bezel material
2B	2	Plastic
2M	2	Brushed metal
2R	2	Metal
3B	3	Plastic
3M	3	Brushed metal
3R	3	Metal

#### (3) Reset Method

Code	Reset method		
M	Manual	Two-position manual	
		Three-position manual	

#### (4) Operation Unit Transparency and Color and (8) LED Lamp Color

Lighted/non-lighted	Code (4)	Code (8)	Transparency	Operation Unit color	LED Lamp color
Non-lighted	NR	N	Opaque	Red	---
	NG		Opaque	Green	
	NY		Opaque	Yellow	
	NW		Opaque	White	
	NA		Opaque	Blue	
	NB		Opaque	Black	
Lighted	TR	R	Transparent	Red	Red
	TG	G	Transparent	Green	Green
	TY	Y	Transparent	Yellow	Yellow
	TW	W	Transparent	White	White
	TA	A	Transparent	Blue	Blue
	TO	O	Transparent	Orange	Orange
	TW	Y	Transparent	White*	Yellow

\* The color is opaque white when the Switch is lit.

#### (5) Degree of Protection

Code	Protection
A	IP66, NEMA 4X, NEMA13

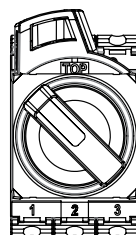
#### (6) Contacts

Code	Description
G	General purpose

#### (7) Contact Configuration

Code	Contact Blocks		Non-lighted						Lighted				
			Switch position			No. of positions			Switch position			No. of positions	
	NO	NC	(1)	(2)	(3)	Two positions	Three positions	(1)	(2)	(3)	Two positions	Three positions	
100	1	0	NO	---	---	Yes		NO	Lighting Unit	---	Yes		
002	0	1	---	---	NC	Yes		---	Lighting Unit	NC	Yes		
101	2	0	NO	---	NO	Yes	Yes	NO	Lighting Unit	NO	Yes	Yes	
102	1	1	NO	---	NC	Yes	Yes	NO	Lighting Unit	NC	Yes	Yes	
201	1	1	NC	---	NO		Yes	NC	Lighting Unit	NO		Yes	
202	0	2	NC	---	NC	Yes	Yes	NC	Lighting Unit	NC	Yes	Yes	
110	2	0	NO	NO	---		Yes						
210	1	1	NC	NO	---		Yes						
011	2	0	---	NO	NO		Yes						
012	1	1	---	NO	NC		Yes						
120	1	1	NO	NC	---		Yes						
220	0	2	NC	NC	---		Yes						
021	1	1	---	NC	NO		Yes						
022	0	2	---	NC	NC		Yes						

**Note:** 1. NO (blue): Normally open, NC (orange): Normally closed.  
2. Refer to the following figure for the Unit positions.



#### (9) LED Lamp Voltage

Code	LED Lamp voltage
N	Non-lighted
A	6 VAC/DC
B	12 VAC/DC
C	24 VAC/DC
D	100/110/120 VAC
E	200/220/230/240 VAC

Note: Not all assembled configurations are possible.  
Please refer to the subassemblies section for additional options.  
Please refer to the specifications section for examples of linked contact block options.

■ Specifications: Refer to page 14 and refer to the A22NN/A22NL. ■ Precautions for correct use: Refer to the A22NN/A22NL.  
■ Dimensions: Refer to page 15.

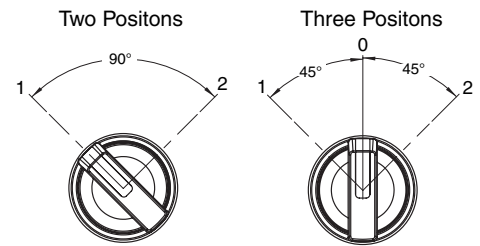
## Structure

### Contact Configuration Table

#### Two Positions

No. of outputs	Code	Contact configuration	Switch position	Contacts	Position	
					1	2
1	100	SPST-NO	(1)	NO		ON
			(2)	---	---	---
			(3)	---	---	---
1	002	SPST-NC	(1)	---	---	---
			(2)	---	---	---
			(3)	NC	ON	
2	102	SPST-NO/ SPST-NC	(1)	NO		ON
			(2)	---	---	---
			(3)	NC	ON	
2	101	DPST-NO	(1)	NO		ON
			(2)	---	---	---
			(3)	NO		ON
2	202	DPST-NC	(1)	NC	ON	
			(2)	---	---	---
			(3)	NC	ON	
3	111	3PST-NO	(1)	NO		ON
			(2)	NO		ON
			(3)	NO		ON
3	222	3PST-NC	(1)	NC	ON	
			(2)	NC	ON	
			(3)	NC	ON	
3	122	SPST-NO/ DPST-NC	(1)	NO		ON
			(2)	NC	ON	
			(3)	NC	ON	
3	112	DPST-NO/ SPST-NC	(1)	NO		ON
			(2)	NO		ON
			(3)	NC	ON	

### Operation Angle



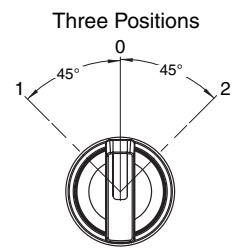
#### Three Positions

No. of outputs	Code	Contact configuration	Switch position	Contacts	Position		
					1	0	2
2	110	DPST-NO	(1)	NO	ON		
			(2)	NO	ON		ON
			(3)	---	---	---	---
2	011	DPST-NO	(1)	---	---	---	---
			(2)	NO	ON		ON
			(3)	NO			ON
2	101	DPST-NO	(1)	NO	ON		
			(2)	---	---	---	---
			(3)	NO			ON
2	220	DPST-NC	(1)	NC		ON	ON
			(2)	NC		ON	
			(3)	---	---	---	---
2	022	DPST-NC	(1)	---	---	---	---
			(2)	NC		ON	
			(3)	NC	ON	ON	
2	202	DPST-NC	(1)	NC		ON	ON
			(2)	---	---	---	---
			(3)	NC	ON	ON	

Note: Not all assembled configurations are possible.  
Please refer to the subassemblies section for additional options.  
Please refer to the specifications section for examples of linked contact block options.

No. of outputs	Code	Contact configuration	Switch position	Contacts	Position		
					1	0	2
2	120	SPST-NO/ SPST-NC	(1)	NO	ON		
			(2)	NC		ON	
			(3)	---	---	---	---
2	102	SPST-NO/ SPST-NC	(1)	NO	ON		
			(2)	---	---	---	---
			(3)	NC	ON	ON	
2	210	SPST-NO/ SPST-NC	(1)	NC		ON	ON
			(2)	NO	ON		ON
			(3)	---	---	---	---
2	201	SPST-NO/ SPST-NC	(1)	NC		ON	ON
			(2)	---	---	---	---
			(3)	NO			ON
2	012	SPST-NO/ SPST-NC	(1)	---	---	---	---
			(2)	NO	ON		ON
			(3)	NC	ON	ON	
2	021	SPST-NO/ SPST-NC	(1)	---	---	---	---
			(2)	NC		ON	
			(3)	NO			ON
3	111	3PST-NO	(1)	NO	ON		
			(2)	NO	ON		ON
			(3)	NO			ON
3	222	3PST-NC	(1)	NC		ON	ON
			(2)	NC		ON	
			(3)	NC	ON	ON	
3	122	SPST-NO/ DPST-NC	(1)	NO	ON		
			(2)	NC		ON	
			(3)	NC	ON	ON	
3	212	SPST-NO/ DPST-NC	(1)	NC		ON	ON
			(2)	NO	ON		ON
			(3)	NC	ON	ON	
3	221	SPST-NO/ DPST-NC	(1)	NC		ON	ON
			(2)	NC		ON	
			(3)	NO	ON		ON
3	211	DPST-NO/ SPST-NC	(1)	NC		ON	ON
			(2)	NO	ON		ON
			(3)	NO			ON
3	121	DPST-NO/ SPST-NC	(1)	NO	ON		
			(2)	NC		ON	
			(3)	NO			ON
3	112	DPST-NO/ SPST-NC	(1)	NO	ON		
			(2)	NO	ON		ON
			(3)	NC	ON	ON	

Operation Angle

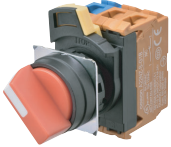
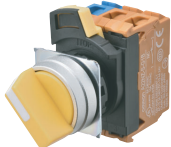
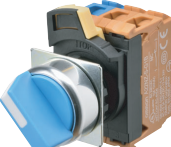


Note: Some combinations are only available through subassemblies. Please refer to the specifications section for more information.

# A22NS/A22NW

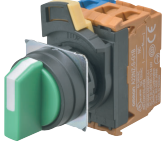


## Ordering Information

**Model Numbers for Sets** - - - Shipped as a set that includes the Operation Unit, LED Lamp, Mounting Collar, and Contact Block.  
**Non-lighted, Two-position, Selector Switches**

Appearance	Bezel material	No. of outputs	Model	(3) Reset method	(4)(4) Operation Unit color	(7)(7)(7) Contact configuration				
Plastic bezels 	2B	1	A22NS-2B(3)-(4)(4)A-G(7)(7)-NN	M: Manual	NR: Opaque red NG: Opaque green NY: Opaque yellow NW: Opaque white NA: Opaque blue NB: Opaque black	100 002				
		2				102 101 202				
Brushed metal bezels 	2M	1	A22NS-2M(3)-(4)(4)A-G(7)(7)-NN			M: Manual	NR: Opaque red NG: Opaque green NY: Opaque yellow NW: Opaque white NA: Opaque blue NB: Opaque black	100 002		
		2						102 101 202		
Metal bezels 	2R	1	A22NS-2R(3)-(4)(4)A-G(7)(7)-NN					M: Manual	NR: Opaque red NG: Opaque green NY: Opaque yellow NW: Opaque white NA: Opaque blue NB: Opaque black	100 002
		2								102 101 202

Note: Not all assembled configurations are possible.  
 Please refer to the subassemblies section for additional options.  
 Please refer to the specifications section for examples of linked contact block options.

**Non-lighted, Three-position, Selector Switches**




Appearance	Bezel material	No. of outputs	Model	(3) Reset method	(4)(4) Operation Unit color	(7)(7)(7) Contact configuration
Plastic bezels 	3B	2	A22NS-3B(3)-(4)(4)A-G(7)(7)-NN	M: Manual	NR: Opaque red NG: Opaque green NY: Opaque yellow NW: Opaque white NA: Opaque blue NB: Opaque black	110 011 101 220 022 202 120 102 210 201 012 021
Brushed metal bezels 		2	A22NS-3(3)-(4)(4)A-G(7)(7)-NN			110 011 101 220 022 202 120 102 210 201 012 021
Metal bezels 	3R	2	A22NS-3R(3)-(4)(4)A-G(7)(7)-NN			110 011 101 220 022 202 120 102 210 201 012 021

Note: Not all assembled configurations are possible.  
 Please refer to the subassemblies section for additional options.  
 Please refer to the specifications section for examples of linked contact block options.



# A22NS/A22NW

## Ordering Information

**Model Numbers for Sets** - - - Shipped as a set that includes the Operation Unit, LED Lamp, Mounting Collar, and Contact Block.  
**Lighted, Two-positon, Selector Switches**

Appearance	Bezel material	No. of outputs	Model	(3) Reset method	(4)(4) Operation Unit color	(7)(7)(7) Contact Configuration	(8) LED Lamp color	(9) LED Lamp voltage
Plastic bezels 	2B	1	A22NW-2B(3)-(4)(4)A-G(7)(7)(7)-(8)(9)	M: Manual	TR: Transparent red TG: Transparent green TY: Transparent yellow TW: Transparent white TA: Transparent blue TO: Transparent orange	100 002  102 101 202  100 002  102 101 202  100 002  102 101 202	R: Red G: Green Y: Yellow A: Blue O: Orange	A: 6 VAC/DC B: 12 VAC/DC C: 24 VAC/DC D: 100/110/120 VAC E: 200/220/230/240 VAC
		2						
Brushed metal bezels 	2M	1	A22NW-2M(3)-(4)(4)A-G(7)(7)(7)-(8)(9)					
		2						
Metal bezels 	2R	1	A22NW-2R(3)-(4)(4)A-G(7)(7)(7)-(8)(9)					
		2						

## Lighted, Three-positon, Selector Switches

Appearance	Bezel material	No. of outputs	Model	(3) Reset method	(4)(4) Operation Unit color	(7)(7)(7) Contact Configuration	(8) LED Lamp color	(9) LED Lamp voltage
Plastic bezels 	3B	2	A22NW-3B(3)-(4)(4)A-G(7)(7)(7)-(8)(9)	M: Manual	TR: Transparent red TG: Transparent green TY: Transparent yellow TW: Transparent white TA: Transparent blue TO: Transparent orange	101 202 102 201  101 202 102 201  101 202 102 201	R: Red G: Green Y: Yellow A: Blue O: Orange	A: 6 VAC/DC B: 12 VAC/DC C: 24 VAC/DC D: 100/110/120 VAC E: 200/220/230/240 VAC
Metal bezels 	3R	2	A22NW-3R(3)-(4)(4)A-G(7)(7)(7)-(8)(9)					

**Note:** Normally, the Operation Unit and LED Lamp with the same color are combined.  
 However, opaque white is available by combining a white Operation Unit and yellow LED. A22N□-□□□-TWA-G□□□-Y□

**Note:** Not all assembled configurations are possible.  
 Please refer to the subassemblies section for additional options.  
 Please refer to the specifications section for examples of linked contact block options.

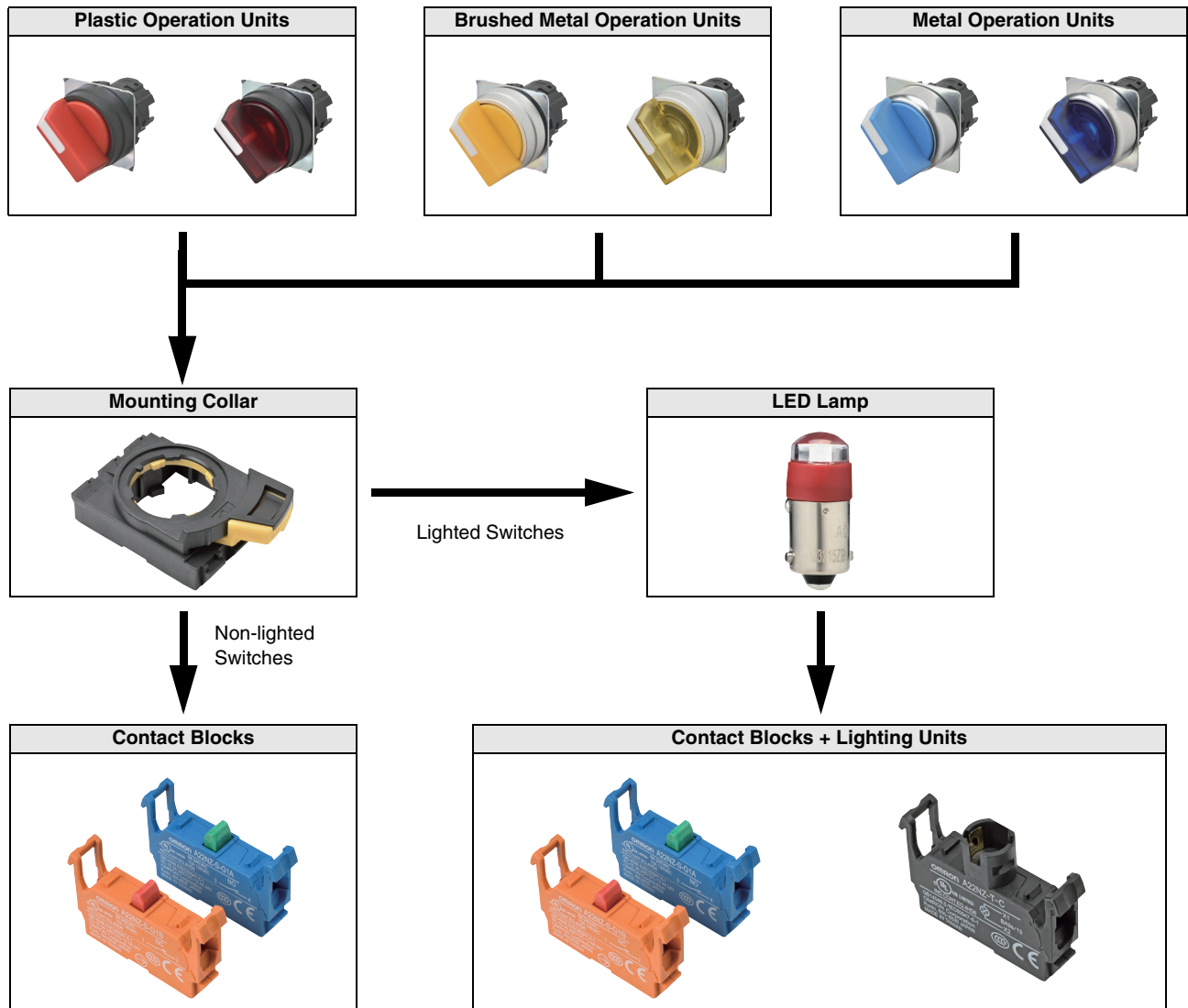
■ Subassemblies: Refer to pages 9 to 13.  
 (You can order Operation Units, LED Lamps, Mounting Collars, and Contact Blocks individually.)

■ Specifications: Refer to page 14 and refer to the A22NN/A22NL.  
 ■ Dimensions: Refer to page 15.  
 ■ Accessories and tools: Refer to the A22NN/A22NL.

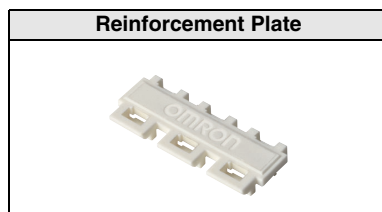


## Ordering Information

**Subassemblies** - - - - You can order Operation Units, LED Lamps, Mounting Collars, and Contact Blocks individually. Use them in combination for models that are not available as assembled Switches. They can also be used as inventory for maintenance parts.



**Note:** Use a Reinforcement Plate for greater strength.



■ Model numbers of sets: Refer to pages 6 to 8.

■ Specifications: Refer to page 14 and refer to the A22NN/A22NL.  
 ■ Dimensions: Refer to page 15.  
 ■ Accessories and tools: Refer to the A22NN/A22NL.

# A22NS/A22NW

## Model Number Structure

### Model Number Legend

#### Model Numbers for Subassemblies

A 2 2 N <sup>(1)</sup> Z - <sup>(2)</sup> 2 <sup>(3)</sup> B M - <sup>(4)</sup> N <sup>(5)</sup> R A

#### (1) Type

Code	Type
Z	Subassembly

#### (2) Number of Positions and Bezel Material

Code	No. of positions	Bezel material
2B	2	Plastic
2M	2	Brushed metal
2R	2	Metal
3B	3	Plastic
3M	3	Brushed metal
3R	3	Metal

#### (3) Reset Method

Code	Reset method		
M	Manual	Two-position manual	
		Three-position manual	
L	Automatic reset on left	Two-position automatic	
		Three-position left automatic	
R	Automatic reset on right	Three-position right automatic	
B	Automatic reset on left and right	Three-position left or right automatic	

#### (4) Operation Unit Transparency and Color

Lighted/non-lighted	Code (4)	Code (8)	Transparency	Operation Unit color	LED Lamp color
Non-lighted	NR	N	Opaque	Red	---
	NG		Opaque	Green	
	NY		Opaque	Yellow	
	NW		Opaque	White	
	NA		Opaque	Blue	
	NB		Opaque	Black	
Lighted	TR	R	Transparent	Red	Red
	TG	G	Transparent	Green	Green
	TY	Y	Transparent	Yellow	Yellow
	TW	W	Transparent	White	White
	TA	A	Transparent	Blue	Blue
	TO	O	Transparent	Orange	Orange

#### (5) Degree of Protection

Code	Protective code
A	IP66, NEMA 4X, NEMA13

■ Specifications: Refer to page 14 and refer to the A22NN/A22NL.  
 ■ Dimensions: Refer to page 15.

■ Precautions for correct use: Refer to the A22NN/A22NL.

## Ordering Information

**Subassemblies** ----- You can order Operation Units, LED Lamps, Mounting Collars, and Contact Blocks individually. Use them in combination for models that are not available as assembled Switches. They can also be used as inventory for maintenance parts.

### Operation Unit Non-lighted Switches

No. of positions		Reset method		Bezel material and shape		Plastic		Brushed metal		Metal	
				Operation Unit color		Model	Model	Model	Model		
2	Manual	Opaque red	Automatic reset on left	Opaque red	A22NZ-2BM-NRA	A22NZ-2MM-NRA	A22NZ-2RM-NRA				
	Automatic reset on left				A22NZ-2BL-NRA	A22NZ-2ML-NRA	A22NZ-2RL-NRA				
3	Manual		A22NZ-3BM-NRA		A22NZ-3MM-NRA	A22NZ-3RM-NRA					
	Automatic reset on left		A22NZ-3BL-NRA		A22NZ-3ML-NRA	A22NZ-3RL-NRA					
	Automatic reset on right		A22NZ-3BR-NRA		A22NZ-3MR-NRA	A22NZ-3RR-NRA					
2	Manual		A22NZ-3BB-NRA		A22NZ-3MB-NRA	A22NZ-3RB-NRA					
	Automatic reset on left and right		A22NZ-2BM-NGA		A22NZ-2MM-NGA	A22NZ-2RM-NGA					
2	Automatic reset on left		A22NZ-2BL-NGA		A22NZ-2ML-NGA	A22NZ-2RL-NGA					
	3		Manual		A22NZ-3BM-NGA	A22NZ-3MM-NGA	A22NZ-3RM-NGA				
Automatic reset on left			A22NZ-3BL-NGA		A22NZ-3ML-NGA	A22NZ-3RL-NGA					
Automatic reset on right			A22NZ-3BR-NGA		A22NZ-3MR-NGA	A22NZ-3RR-NGA					
Automatic reset on left and right			A22NZ-3BB-NGA		A22NZ-3MB-NGA	A22NZ-3RB-NGA					
2	Manual	Opaque yellow	Automatic reset on left	Opaque yellow	A22NZ-2BM-NYA	A22NZ-2MM-NYA	A22NZ-2RM-NYA				
	Automatic reset on left				A22NZ-2BL-NYA	A22NZ-2ML-NYA	A22NZ-2RL-NYA				
3	Manual		A22NZ-3BM-NYA		A22NZ-3MM-NYA	A22NZ-3RM-NYA					
	Automatic reset on left		A22NZ-3BL-NYA		A22NZ-3ML-NYA	A22NZ-3RL-NYA					
	Automatic reset on right		A22NZ-3BR-NYA		A22NZ-3MR-NYA	A22NZ-3RR-NYA					
2	Manual		A22NZ-3BB-NYA		A22NZ-3MB-NYA	A22NZ-3RB-NYA					
	Automatic reset on left and right		A22NZ-2BM-NWA		A22NZ-2MM-NWA	A22NZ-2RM-NWA					
2	Automatic reset on left		A22NZ-2BL-NWA		A22NZ-2ML-NWA	A22NZ-2RL-NWA					
	3		Manual		A22NZ-3BM-NWA	A22NZ-3MM-NWA	A22NZ-3RM-NWA				
Automatic reset on left			A22NZ-3BL-NWA		A22NZ-3ML-NWA	A22NZ-3RL-NWA					
Automatic reset on right			A22NZ-3BR-NWA		A22NZ-3MR-NWA	A22NZ-3RR-NWA					
Automatic reset on left and right			A22NZ-3BB-NWA		A22NZ-3MB-NWA	A22NZ-3RB-NWA					
2	Manual	Opaque white	Automatic reset on left	Opaque white	A22NZ-2BM-NAA	A22NZ-2MM-NAA	A22NZ-2RM-NAA				
	Automatic reset on left				A22NZ-2BL-NAA	A22NZ-2ML-NAA	A22NZ-2RL-NAA				
3	Manual		A22NZ-3BM-NAA		A22NZ-3MM-NAA	A22NZ-3RM-NAA					
	Automatic reset on left		A22NZ-3BL-NAA		A22NZ-3ML-NAA	A22NZ-3RL-NAA					
	Automatic reset on right		A22NZ-3BR-NAA		A22NZ-3MR-NAA	A22NZ-3RR-NAA					
2	Manual		A22NZ-3BB-NAA		A22NZ-3MB-NAA	A22NZ-3RB-NAA					
	Automatic reset on left and right		A22NZ-2BM-NBA		A22NZ-2MM-NBA	A22NZ-2RM-NBA					
2	Automatic reset on left		A22NZ-2BL-NBA		A22NZ-2ML-NBA	A22NZ-2RL-NBA					
	3		Manual		A22NZ-3BM-NBA	A22NZ-3MM-NBA	A22NZ-3RM-NBA				
Automatic reset on left			A22NZ-3BL-NBA		A22NZ-3ML-NBA	A22NZ-3RL-NBA					
Automatic reset on right			A22NZ-3BR-NBA		A22NZ-3MR-NBA	A22NZ-3RR-NBA					
Automatic reset on left and right			A22NZ-3BB-NBA		A22NZ-3MB-NBA	A22NZ-3RB-NBA					

■ Model numbers of sets: Refer to pages 6 to 8.

■ Specifications: Refer to page 14 and refer to the A22NN/A22NL.

■ Dimensions: Refer to page 15.

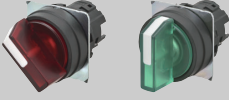
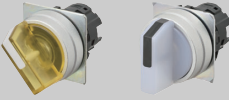
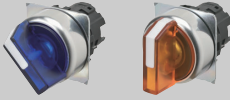
■ Accessories and tools: Refer to the A22NN/A22NL.

# A22NS/A22NW

## Ordering Information

**Subassemblies** - - - - You can order Operation Units, LED Lamps, Mounting Collars, and Contact Blocks individually. Use them in combination for models that are not available as assembled Switches. They can also be used as inventory for maintenance parts.

### Lighted Switches

Bezel material and shape			Plastic	Brushed metal	Metal	
No. of positions	Reset method	Operation Unit color				
			Model	Model	Model	
2	Manual	Transparent red	A22NZ-2BM-TRA	A22NZ-2MM-TRA	A22NZ-2RM-TRA	
	Automatic reset on left		A22NZ-2BL-TRA	A22NZ-2ML-TRA	A22NZ-2RL-TRA	
3	Manual		A22NZ-3BM-TRA	A22NZ-3MM-TRA	A22NZ-3RM-TRA	
	Automatic reset on left		A22NZ-3BL-TRA	A22NZ-3ML-TRA	A22NZ-3RL-TRA	
	Automatic reset on right		A22NZ-3BR-TRA	A22NZ-3MR-TRA	A22NZ-3RR-TRA	
	Automatic reset on left and right		A22NZ-3BB-TRA	A22NZ-3MB-TRA	A22NZ-3RB-TRA	
2	Manual		Transparent green	A22NZ-2BM-TGA	A22NZ-2MM-TGA	A22NZ-2RM-TGA
	Automatic reset on left			A22NZ-2BL-TGA	A22NZ-2ML-TGA	A22NZ-2RL-TGA
3	Manual			A22NZ-3BM-TGA	A22NZ-3MM-TGA	A22NZ-3RM-TGA
	Automatic reset on left			A22NZ-3BL-TGA	A22NZ-3ML-TGA	A22NZ-3RL-TGA
	Automatic reset on right			A22NZ-3BR-TGA	A22NZ-3MR-TGA	A22NZ-3RR-TGA
	Automatic reset on left and right			A22NZ-3BB-TGA	A22NZ-3MB-TGA	A22NZ-3RB-TGA
2	Manual	Transparent yellow		A22NZ-2BM-TYA	A22NZ-2MM-TYA	A22NZ-2RM-TYA
	Automatic reset on left			A22NZ-2BL-TYA	A22NZ-2ML-TYA	A22NZ-2RL-TYA
3	Manual			A22NZ-3BM-TYA	A22NZ-3MM-TYA	A22NZ-3RM-TYA
	Automatic reset on left			A22NZ-3BL-TYA	A22NZ-3ML-TYA	A22NZ-3RL-TYA
	Automatic reset on right			A22NZ-3BR-TYA	A22NZ-3MR-TYA	A22NZ-3RR-TYA
	Automatic reset on left and right			A22NZ-3BB-TYA	A22NZ-3MB-TYA	A22NZ-3RB-TYA
2	Manual		Transparent white	A22NZ-2BM-TWA	A22NZ-2MM-TWA	A22NZ-2RM-TWA
	Automatic reset on left			A22NZ-2BL-TWA	A22NZ-2ML-TWA	A22NZ-2RL-TWA
3	Manual			A22NZ-3BM-TWA	A22NZ-3MM-TWA	A22NZ-3RM-TWA
	Automatic reset on left			A22NZ-3BL-TWA	A22NZ-3ML-TWA	A22NZ-3RL-TWA
	Automatic reset on right			A22NZ-3BR-TWA	A22NZ-3MR-TWA	A22NZ-3RR-TWA
	Automatic reset on left and right			A22NZ-3BB-TWA	A22NZ-3MB-TWA	A22NZ-3RB-TWA
2	Manual	Transparent blue		A22NZ-2BM-TAA	A22NZ-2MM-TAA	A22NZ-2RM-TAA
	Automatic reset on left			A22NZ-2BL-TAA	A22NZ-2ML-TAA	A22NZ-2RL-TAA
3	Manual			A22NZ-3BM-TAA	A22NZ-3MM-TAA	A22NZ-3RM-TAA
	Automatic reset on left			A22NZ-3BL-TAA	A22NZ-3ML-TAA	A22NZ-3RL-TAA
	Automatic reset on right			A22NZ-3BR-TAA	A22NZ-3MR-TAA	A22NZ-3RR-TAA
	Automatic reset on left and right			A22NZ-3BB-TAA	A22NZ-3MB-TAA	A22NZ-3RB-TAA
2	Manual		Transparent orange	A22NZ-2BM-TOA	A22NZ-2MM-TOA	A22NZ-2RM-TOA
	Automatic reset on left			A22NZ-2BL-TOA	A22NZ-2ML-TOA	A22NZ-2RL-TOA
3	Manual			A22NZ-3BM-TOA	A22NZ-3MM-TOA	A22NZ-3RM-TOA
	Automatic reset on left			A22NZ-3BL-TOA	A22NZ-3ML-TOA	A22NZ-3RL-TOA
	Automatic reset on right			A22NZ-3BR-TOA	A22NZ-3MR-TOA	A22NZ-3RR-TOA
	Automatic reset on left and right			A22NZ-3BB-TOA	A22NZ-3MB-TOA	A22NZ-3RB-TOA

■ Model numbers of sets: Refer to pages 6 to 8.

■ Specifications: Refer to page 14 and refer to the A22NN/A22NL.


■ Dimensions: Refer to page 15.

■ Accessories and tools: Refer to the A22NN/A22NL.


## Ordering Information

**Subassemblies** - - - You can order Operation Units, LED Lamps, Mounting Collars, and Contact Blocks individually. Use them in combination for models that are not available as assembled Switches. They can also be used as inventory for maintenance parts.

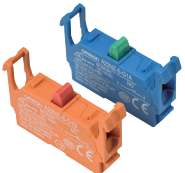
### LED Lamps

Appearance	Applied voltage	6 VAC/DC	12 VAC/DC	24 VAC/DC	100/110/120 VAC	200/220/230/240 VAC
	Color	Model	Model	Model	Model	Model
	Red	A22NZ-L-RA	A22NZ-L-RB	A22NZ-L-RC	A22NZ-L-RD	A22NZ-L-RE
	Green	A22NZ-L-GA	A22NZ-L-GB	A22NZ-L-GC	A22NZ-L-GD	A22NZ-L-GE
	Yellow	A22NZ-L-YA	A22NZ-L-YB	A22NZ-L-YC	A22NZ-L-YD	A22NZ-L-YE
	White	A22NZ-L-WA	A22NZ-L-WB	A22NZ-L-WC	A22NZ-L-WD	A22NZ-L-WE
	Blue	A22NZ-L-AA	A22NZ-L-AB	A22NZ-L-AC	A22NZ-L-AD	A22NZ-L-AE
	Orange	A22NZ-L-OA	A22NZ-L-OB	A22NZ-L-OC	A22NZ-L-OD	A22NZ-L-OE


### Mounting Collar

Appearance	Model
	A22NZ-H-01


### Contact Blocks

Appearance	Contacts	Model
	SPST-NO (blue)	A22NZ-S-G1A
	SPST-NC (orange)	A22NZ-S-G1B

### Lighting Units

Appearance	Applied voltage	Model
	6 VAC/DC	A22NZ-T-A
	12 VAC/DC	A22NZ-T-B
	24 VAC/DC	A22NZ-T-C
	100/110/120 VAC	A22NZ-T-D
	200/220/230/240 VAC	A22NZ-T-E

### Reinforcement Plate

Appearance	Model
	A22NZ-A-C01

■ Model numbers of sets: Refer to pages 6 to 8.

■ Specifications: Refer to page 14 and refer to the A22NN/A22NL.

■ Dimensions: Refer to page 15.

■ Accessories and tools: Refer to the A22NN/A22NL.

## Specifications

### Characteristics

Item	Type	Selector Switches	
		Non-lighted models	Lighted models
Allowable operating frequency	Mechanical	30 operations/minute max.	
	Electrical	30 operations/minute max.	
Insulation resistance		100 MΩ min. (at 500 VDC)	
Contact resistance		100 mΩ max. (initial value)	
Dielectric strength	Between terminals of same polarity	2,500 VAC at 50/60 Hz for 1 min	
	Between each terminal and ground	2,500 VAC at 50/60 Hz for 1 min	
Vibration resistance	Malfunction	10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)	
Shock resistance	Malfunction	1,000 m/s <sup>2</sup> max. (malfunction within 1 ms)	
Durability	Mechanical	500,000 operations min. (Switches with 3 positions: 300,000 operations min.)	
	Electrical	500,000 operations min. (Switches with 3 positions: 300,000 operations min.)	
Ambient operating temperature <sup>*1</sup>		-25 to 70°C	-25 to 55°C
Ambient operating humidity		35% to 85% RH	
Ambient storage temperature <sup>*1</sup>		-40 to 80°C	
Degree of protection <sup>*2</sup>		IP66, NEMA 4X, NEMA 13	
Electric shock protection class		Class II	
PTI (tracking characteristic)		175	
Degree of contamination (application environment)		3 (IEC 60947-5-1)	
Weight		Approx. 50 g (for 1NC/1NO)	Approx. 60 g (for 1NC/1NO)

\*1. With no icing or condensation.

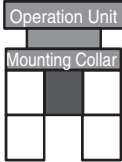
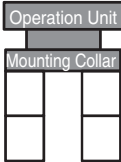
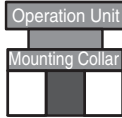
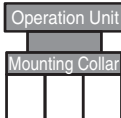
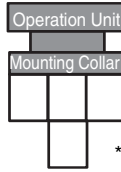
\*2. Degree of protection from the front of the panel.

### Operating Characteristics (for SPST-NO/SPST-NC)

Item	Type	Selector Switches	
		Manual reset	Automatic reset
Total travel force (torque) (maximum TTF)		0.6 N·m	0.6 N·m
Total travel (TT)		2 positions: Approx. 90°, 3 positions: Approx. 45°	
Resetting force (torque) (RF)		0.5 N·m max.	---

### Examples of Linked Contact Blocks

Contact Blocks       Lighting Units

	Selector Switches			
	2 positions		3 positions	
	Lighted	Non-lighted	Lighted	Non-lighted
Linking example				
		 <p style="text-align: center;">*</p>		

\* If you use three Contact Blocks in stage 1, you can add one more Contact Block in the middle of stage 2.

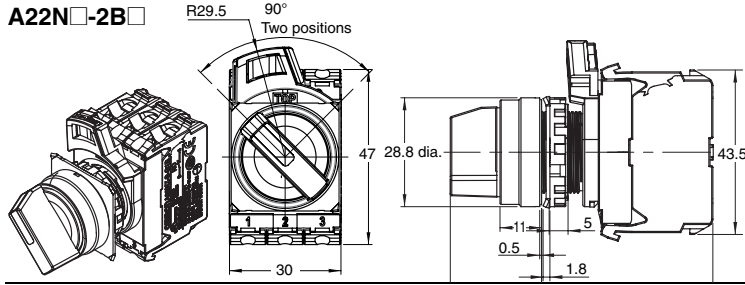
**Note:** If you increase the number of Contact Blocks, evaluate the Switch under actual working conditions before permanent installation and use the Switch within a number of switching operations that will not adversely affect the Switch's performance.

# Dimensions

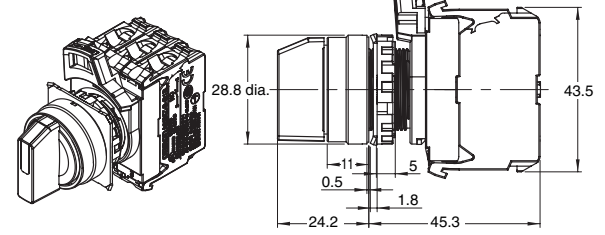
(Unit: mm)

## Lighted and Non-lighted Selection Switches

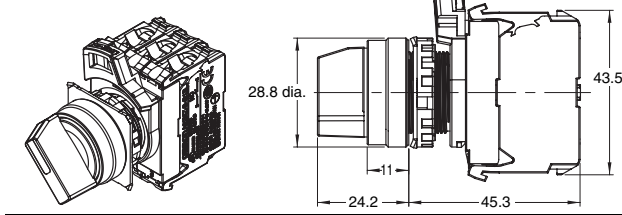
### Two-position Switches with Plastic Bezels



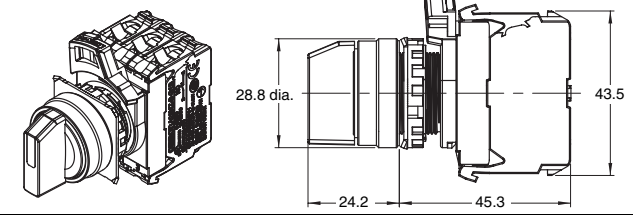
### Three-position Switches with Plastic Bezels



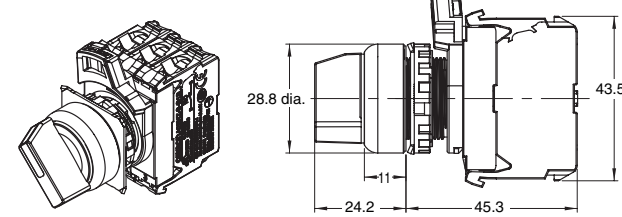
### Two-position Switches with Brushed Metal Bezels



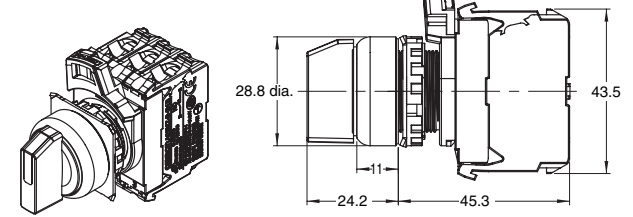
### Three-position Switches with Brushed Metal Bezel:



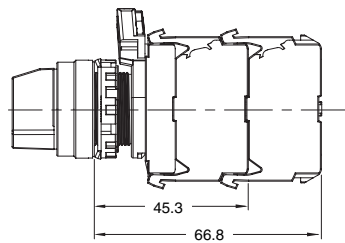
### Two-position Switches with Metal Bezels



### Three-position Switches with Metal Bezels

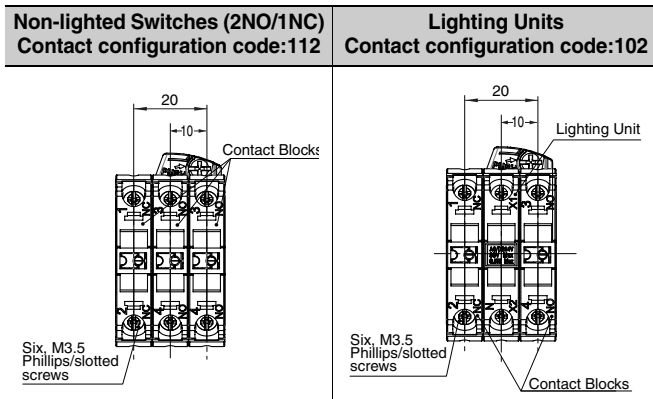


## Depth with Linked Units

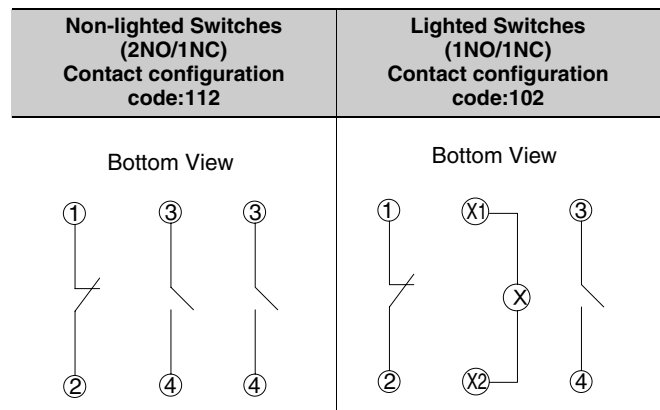


## Terminal Wiring Diagrams

### Bottom View



## Terminal Connection Diagrams



## Safety Precautions

Refer to *Safety Precautions for All Pushbutton Switches/Indicators* for common precautions. Read the *Safety Precautions* on the following pages.



## Safety Precautions

Refer to Safety Precautions for All Pushbutton Switches/Indicators.

### Precautions for Safe Use

- Never perform wiring work on a Switch while power is being supplied. Never touch terminals and other charged parts while power is being supplied. Doing so may result in electrical shock.
- Never attempt to disassemble or modify the Switch in any way. Doing so may prevent correct operation.
- Switch functionality may be inhibited. Do not drop the Switch. Never apply a force that would deform or alter the nature of the Switch.
- The durability of the Switch is greatly affected by operating conditions. Evaluate the Switch under actual working conditions before permanent installation and use the Switch within a number of switching operations that will not adversely affect the Switch's performance.
- Do not use a load voltage or current that exceeds the rating. Doing so may damage or cause burning in the Switch.
- Do not use the Switch in a location with inflammable or explosive gases, or where the Switch would be subjected to inflammable solvents. The arcs and heat generated when the Switch is operated can cause ignition or explosions.
- Do not use the Switch where sulfur gas (H<sub>2</sub>S, SO<sub>2</sub>), ammonia gas (NH<sub>3</sub>), nitric acid gas (HNO<sub>3</sub>), chlorine gas (Cl<sub>2</sub>), or other harmful gases are present or where high humidity is present. Contact faults and damage due to corrosion may interfere with the functionality of the Switch.
- Do not use the Switch in oil or water or in an environment subject to constant contact with oil or water. The oil or water may enter the Switch, causing failure.
- Do not use or store the Switch in the following locations.
  - Locations subject to rapid temperature changes
  - Locations subject to condensation due to high humidity
  - Locations subject to vibration
  - Locations subject to direct sunlight
  - Locations subject to salty air
- Make sure that the rubber washer is in place between the Operation Unit and the panel. Otherwise, the specifications of the protective structure may not be satisfied.
- Do not subject the Contact Block or wiring to excessive force. The Contact Block may be damaged or deformed and faulty contact may occur.

### Precautions for Correct Use

#### Mounting

- Do not tighten the Mounting Nut more than necessary using tools such as pointed-nose pliers. Doing so will damage the Mounting Nut. (The tightening torque of the Mounting Nut is 1.0 to 2.0 N·m.)

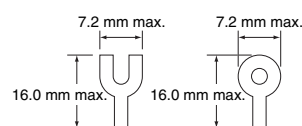
#### Wiring

- Terminal screws must be M3.5 Phillips or slotted screws with a square washer.
- The terminal screw tightening torque is 1.0 to 1.3 N·m.
- Solid wires, stranded wires, and crimp terminals can be connected to the Switch.

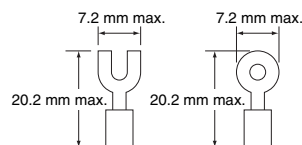
Stranded wires: AWG14 to AWG16

Solid wire: 1.6 dia. max.

Bare Crimp Terminals



Crimp Terminals with Insulating Sheaths



- After wiring the Switch, maintain appropriate clearance and creepage distances.

#### Operating Environment

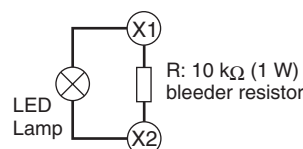
- The Switch is intended for indoor use only. Using the Switch outdoors will result in failure.

#### LED Lamps

- A current-limiting resistor is built into the LED Lamp, so external resistance is not required.
- False Lighting of the LED Lamp  
The LED Lamp will light with a microcurrent of approx. 0.1 mA or less. Take countermeasures, such as adding a resistor in parallel to the LED Lamp, to prevent false lighting.  
The micro-current varies with the machine (due to leakage current, stray capacity between cables, etc.). Select a resistance value and allowable power consumption according to the actual current.

#### Example of Circuit to Prevent False Lighting

For 24 VAC/VDC Lighting Unit





## Application

### Mounting to the Panel

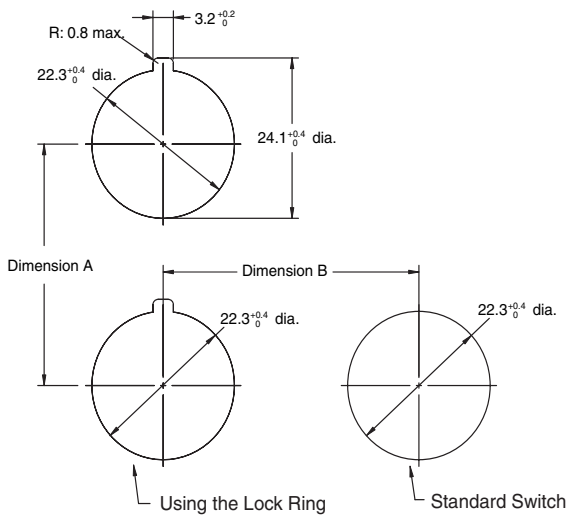
#### Panel Hole Dimensions

- Panel hole dimensions are given below.
- The recommended panel thicknesses are given below.

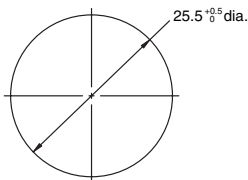
Panel hole dimension	Panel thickness
22.3 dia.	0.8 to 5 mm
25.5 dia.	0.8 to 6 mm

- If outer surface treatment such as coating is performed for the panel, the panel dimensions after outer surface treatment must meet the specified panel dimensions.
- The following figure gives pitch dimension A and pitch dimension B between the centers of the mounting holes.

#### Panel Hole Dimensions for 22.3 Diameter



#### Panel Hole Dimensions for 25.5 Diameter



#### Dimension A

Wire type	Number of linked Contact Blocks	Number of wires per terminal	Minimum allowable pitch Dimension A (mm) or larger
Leads (twisted wires or solid wire)	1	1	50
Bare crimp terminals	1	1	50
Crimp terminals with insulating sheathes	1	1	60

**Note:** The minimum mounting pitch is based on three Contact Blocks in stage 1 with one wire attached to each terminal. If you attach two wires or link Units, determine the mounting pitch based on the dimensions diagrams and ease of operation and wiring.

#### Dimension A When Using Accessory

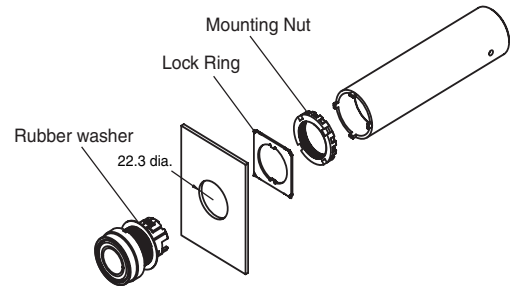
- Dimension A is 50 mm minimum when a Standard Legend Plate Frame is attached.
- Dimension A is 51 mm minimum when a Large Legend Plate Frame is attached.
- Dimension A is 75 mm minimum when a Protective Cover is attached.

#### Dimension B

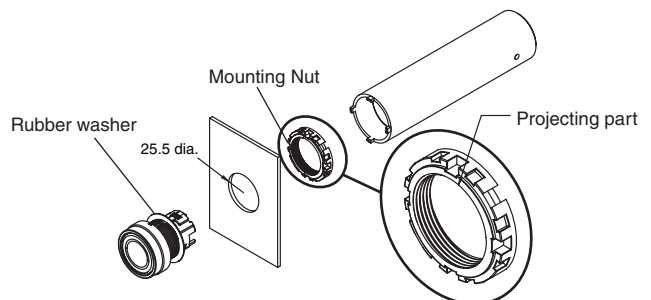
Operation Unit shape	Dimension B
Mushroom	40 mm min.
Other than the above	30 mm min.

#### Mounting the Operation Unit

- **Panel Hole of 22.3-mm Diameter**  
Insert the Operation Unit from the front of the panel, insert the Lock Ring and Mounting Nut from the back of the panel, and tighten the Mounting Nut. Before tightening, check that the rubber washer is present between the Operation Unit and the panel.



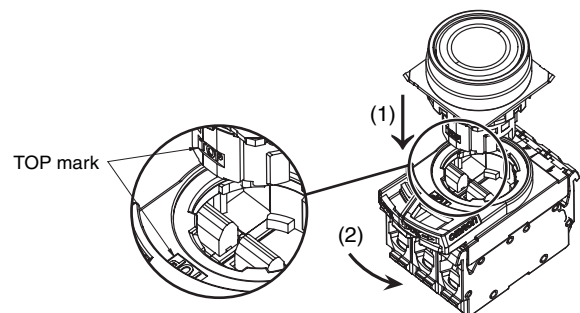
- **Panel Hole of 25.5-mm Diameter**  
Do not use the Lock Ring, and tighten the Mounting Nut while confirming that the projecting part (see following figure) on the Mounting Nut is aligned with mounting hole. Before tightening, check that the rubber washer is present between the Operation Unit and the panel.



- Align the Lock Ring with the slot on the case and insert it so that the edge is flush with the panel.

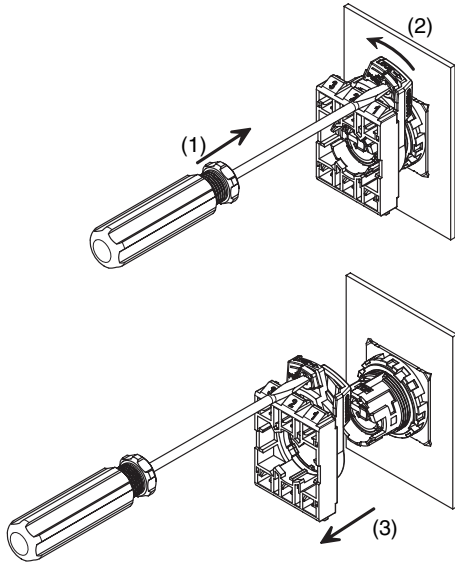
#### Mounting the Contact Block to the Operation Unit

- Insert the Operation Unit into the Mounting Collar, aligning the TOP mark inscribed on the Operation Unit with the lever on the Mounting Collar, and then turn the lever in the direction indicated by the arrow in the following figure all of the way until it clicks into place.



## Removing the Mounting Collar

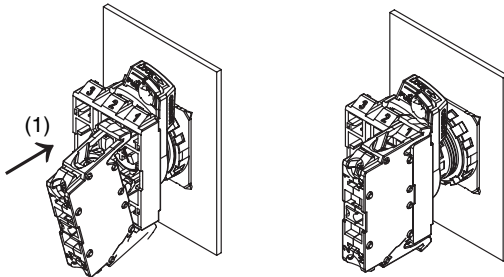
- Press the lock lever in from the back side to release the lock, and then hook the Mounting Collar with a screwdriver, move it in the direction indicated at (2), and remove it. Turn the lever all of the way until it clicks into place.



## Contact Block

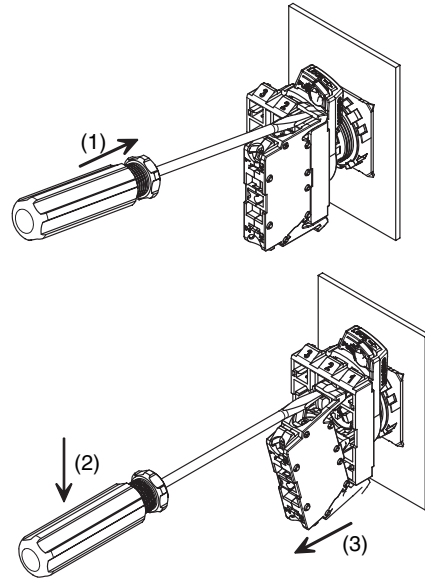
### Attaching the Contact Block

- Catch the projection on the opposite side of the Mounting Collar from the lever side and press the Contact Block in the direction indicated at (1).



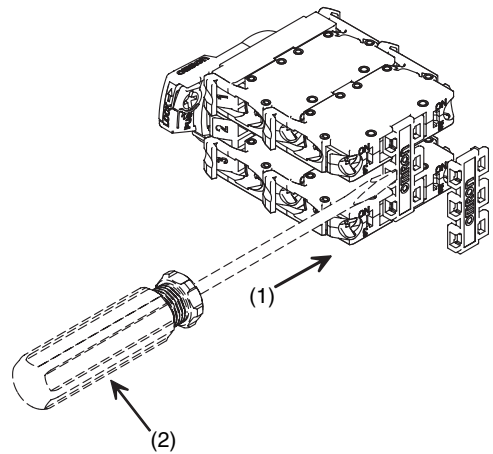
## Removing the Contact Block

- Insert a screwdriver into the gap between the Mounting Collar and Contact Block and press it inward in the direction shown at (2).



## Attaching the Reinforcement Plate

- To link Contact Blocks together, attach a Reinforcement Plate in the direction shown in the following figure. To remove the Plate, insert a screwdriver in the direction indicated at (1) and rotate it in the direction indicated at (2).



## Engraving

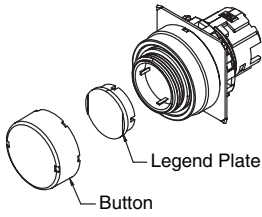
- Engrave legends on the Legend Plates. Do so with the straight part of the Legend Plate positioned on the right and left.
- The characters must be engraved no deeper than 0.5 mm. Use an alcohol-based paint, such as a melamine, phthalic acid, or acrylic resin based paint.

Projected, Full-guard, or Mushroom Switches	Flat Switches
 15.4 dia.	 17.7 dia.

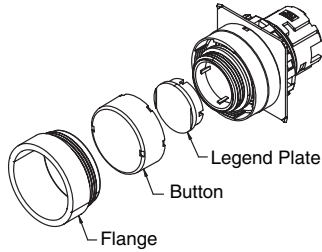
### Attaching Character Films

- To attach a character film, remove the Button and attach the film, aligning it with the straight portions of the Legend Plate.

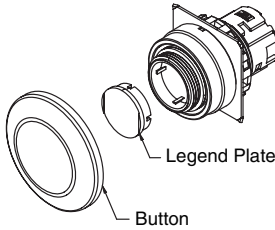
#### Projected Switches



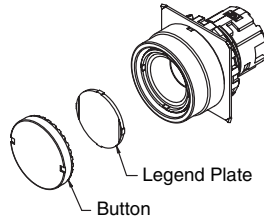
#### Full-guard Switches



#### Mushroom Switches



#### Flat Switches

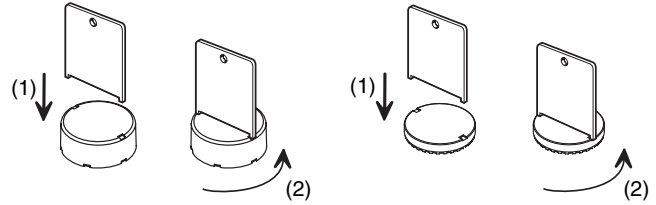


- Prepare films of the following sizes depending on the type of Legend Plate.

Projected, Full-guard, or Mushroom Switches	Legend Plate dimensions	<p>Display range 15.4 dia. 1.6 5.15 15.9 dia.</p>
	Film dimensions	<p>17.1<sup>±0.2</sup> dia. 15.4<sup>±0.2</sup> T = 0.1 to 0.2 mm</p>
Flat Switches	Legend Plate dimensions	<p>Display range 17.7 dia. 1.30 2.00</p>
	Film dimensions	<p>19.6<sup>±0.2</sup> dia. 17.5<sup>±0.2</sup> T = 0.1 to 0.2 mm</p>

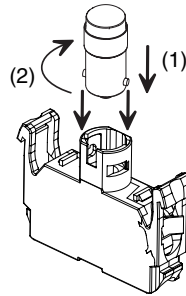
### Removing and Tightening the Cap

For all Switches except for Mushroom Switches, use the A22Z-3908 Cap Tightening Tool to loosen the cap. When you tighten the cap, make sure that the Legend Plate is in the correct position and then turn the cap in the direction opposite of the direction shown in the following figure. Tighten it to a torque of 0.5 to 1.0 N·m so that it will not become loose.



### Attaching the LED Lamp to the Lighting Unit

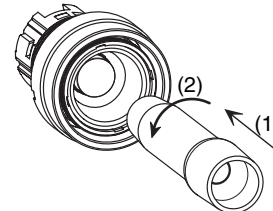
- Insert the protrusions on the LED Lamp into the guides on the Lighting Unit and then turn the LED Lamp in direction (2) to lock it in place.



### Attaching and Replacing LED Lamps

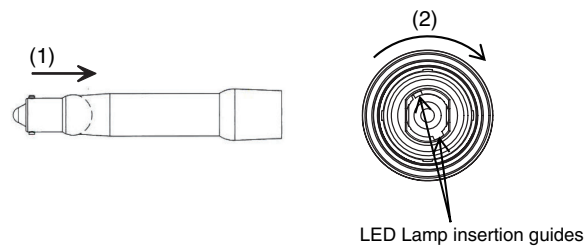
#### Removing the LED Lamp from the Panel Surface

- Insert the LED Lamp Extractor as shown in the following figure and then rotate the Extractor in the direction shown at (2) while pressing it inward.



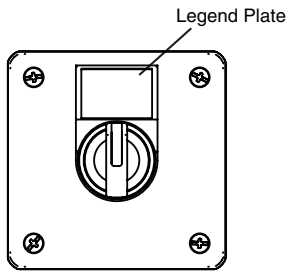
#### Attaching the LED Lamp from the Panel Surface

- Insert the LED Lamp into the LED Lamp Extractor as shown in the following figure. Align the projections on the LED Lamp with the LED Lamp insertion guides, insert the LED Lamp, and turn it in the direction indicated at (2).



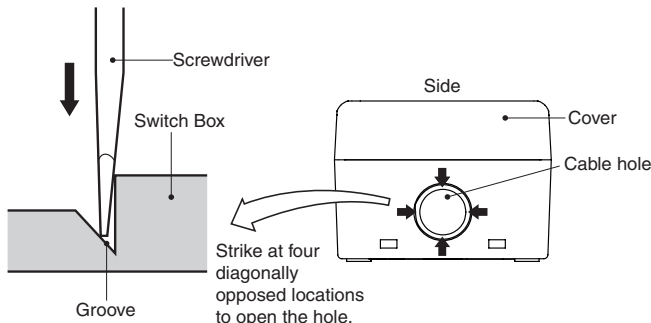
## Control Box

You can attach a Legend Plate Frame.  
 Attach it in the direction shown in the following figure.  
 Mount the Switch in the same way as for a standard panel. The tightening torque of the Box screws is 1.4 to 2.0 N·m.



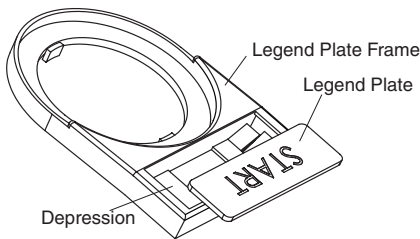
## Creating a Cable Hole

To open a cable hole, leave the cover attached, place the tip of a screwdriver in the grooves at four locations around the cable hole, and strike the screwdriver with a hammer to open the hole.

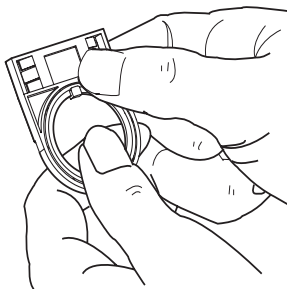


## Attaching and Removing Legend Plates

- Press the Legend Plate into the depression in the Legend Plate Frame. The Legend Plate Frame can be separate or it can be mounted on the panel when you attach the Legend Plate.
- The direction of the characters will depend on the mounting direction of the Operation Unit if the Switch is a Selector Switch or Key Selector Switch.

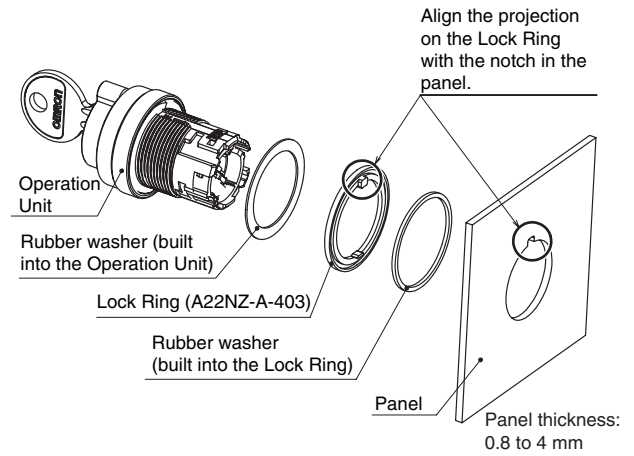


- You can easily remove the Legend Plate by pressing it forwards from the back of the Legend Plate Frame.
- The acrylic plastic Legend Plate is easily damaged by shock. Handle it with care.

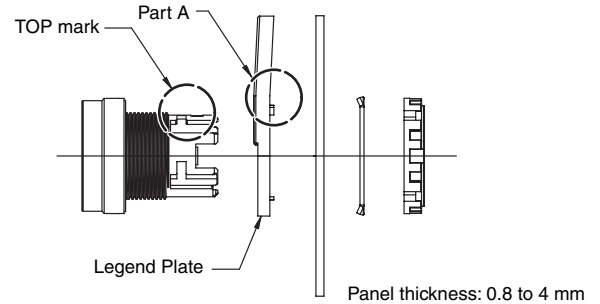


## Attaching the Lock Ring

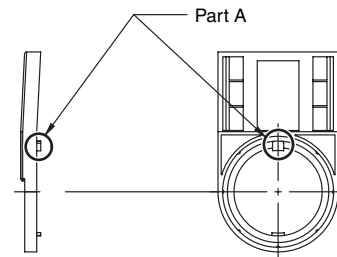
Attach the Lock Ring as shown in the following figure.  
 To ensure water resistance, attach the rubber washer in the specified location.



- Align the TOP mark on the Operation Unit, part A on the Legend Plate, and the notch in the panel, and insert the Operation Unit.

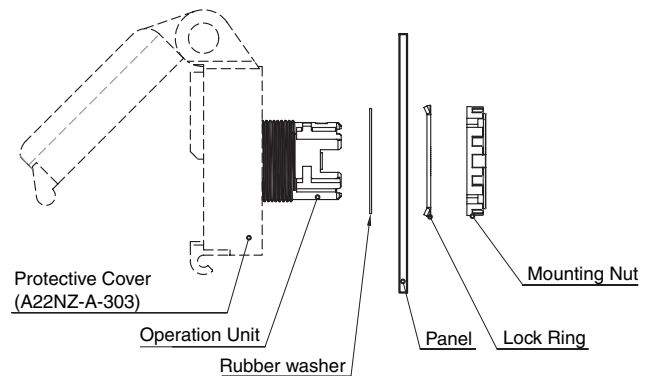


- If there is no notch in the panel, remove part A from the Legend Plate with pliers.



## Attaching the Protective Cover

Attach the Protective Cover (A22NZ-A-303) to a panel that is 0.8 to 1.0 mm thick. To ensure water resistance, attach the rubber washer in the specified location.



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