

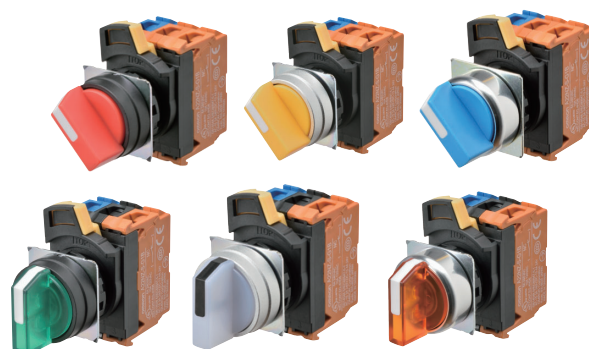
Selector Switches

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.











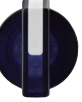
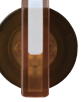

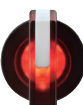




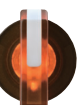
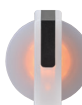
Product Lineup

- 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



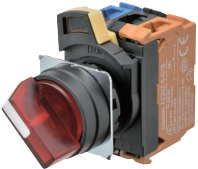

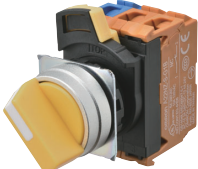

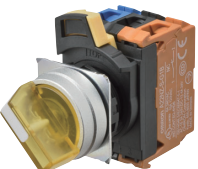

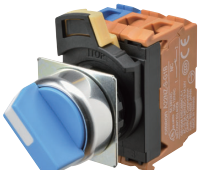



Operation Unit Colors

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

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 2 2 N ⁽¹⁾W - ⁽²⁾2 ⁽³⁾B ⁽⁴⁾M - ⁽⁵⁾NR ⁽⁶⁾A - ⁽⁷⁾G 1 0 1 - ⁽⁸⁾R ⁽⁹⁾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	
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 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				
			Unit position			No. of positions			Unit 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						
111	3	0	NO	NO	NO	Yes	Yes						
112	2	1	NO	NO	NC	Yes	Yes						
210	1	1	NC	NO	---		Yes						
211	2	1	NC	NO	NO		Yes						
212	1	2	NC	NO	NC		Yes						
011	2	0	---	NO	NO		Yes						
012	1	1	---	NO	NC		Yes						
120	1	1	NO	NC	---		Yes						
121	2	1	NO	NC	NO		Yes						
122	1	2	NO	NC	NC	Yes	Yes						
220	0	2	NC	NC	---		Yes						
221	1	2	NC	NC	NO		Yes						
222	0	3	NC	NC	NC	Yes	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

■ Specifications: Refer to page 13 and refer to the A22NN/A22NL.
■ Dimensions: Refer to page 14.

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

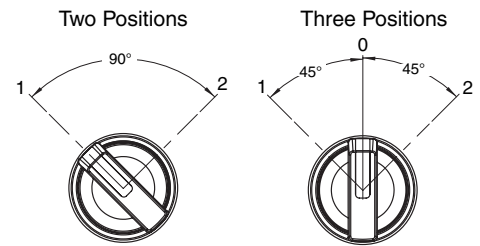
Structure

Contact Configuration Table

Two Positions

No. of outputs	Code	Contact configuration	Unit 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

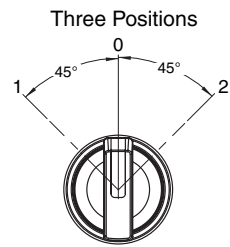


Three Positions

No. of outputs	Code	Contact configuration	Unit 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	

No. of outputs	Code	Contact configuration	Unit 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	

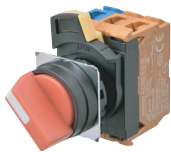
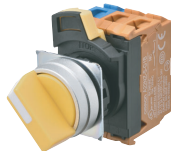
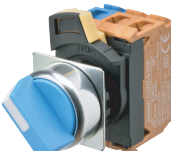
Operation Angle



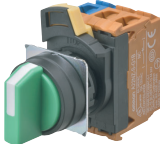


A22NS/A22NW

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 L: Automatic reset on left	NR: Opaque red NG: Opaque green NY: Opaque yellow NW: Opaque white NA: Opaque blue NB: Opaque black	100 002				
		2				102 101 202				
		3				111 222 122 112				
Brushed metal bezels 	2M	1	A22NS-2M(3)-(4)(4)A-G(7)(7)-NN			M: Manual L: Automatic reset on left	NR: Opaque red NG: Opaque green NY: Opaque yellow NW: Opaque white NA: Opaque blue NB: Opaque black	100 002		
		2						102 101 202		
		3						111 222 122 112		
Metal bezels 	2R	1	A22NS-2R(3)-(4)(4)A-G(7)(7)-NN					M: Manual L: Automatic reset on left	NR: Opaque red NG: Opaque green NY: Opaque yellow NW: Opaque white NA: Opaque blue NB: Opaque black	100 002
		2								102 101 202
		3								111 222 122 112




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 L: Automatic reset on left R: Automatic reset on right B: Automatic reset on left and right	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				
		3				111 222 122 212 221 211 121 112				
Brushed metal bezels 	3M	2	A22NS-3M(3)-(4)(4)A-G(7)(7)-NN			M: Manual L: Automatic reset on left R: Automatic reset on right B: Automatic reset on left and right	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		
		3						111 222 122 212 221 211 121 112		
Metal bezels 	3R	2	A22NS-3R(3)-(4)(4)A-G(7)(7)-NN					M: Manual L: Automatic reset on left R: Automatic reset on right B: Automatic reset on left and right	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
		3								111 222 122 212 221 211 121 112




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-position, 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 L: Auto-matic reset on left	TR: Transparent red TG: Transparent green TY: Transparent yellow TW: Transparent white TA: Transparent blue TO: Transparent orange	100 002	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				102 101 202		
Brushed metal bezels 	2M	1	A22NW-2M(3)-(4)(4)A-G(7)(7)(7)-(8)(9)			100 002		
		2				102 101 202		
Metal bezels 	2R	1	A22NW-2R(3)-(4)(4)A-G(7)(7)(7)-(8)(9)			100 002		
		2				102 101 202		

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	(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 L: Automatic reset on left R: Automatic reset on right B: Automatic reset on left and right	TR: Transparent red TG: Transparent green TY: Transparent yellow TW: Transparent white TA: Transparent blue TO: Transparent orange	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
Brushed metal bezels 	3M	2	A22NW-3M(3)-(4)(4)A-G(7)(7)(7)-(8)(9)			101 202 102 201		
Metal bezels 	3R	2	A22NW-3R(3)-(4)(4)A-G(7)(7)(7)-(8)(9)			101 202 102 201		

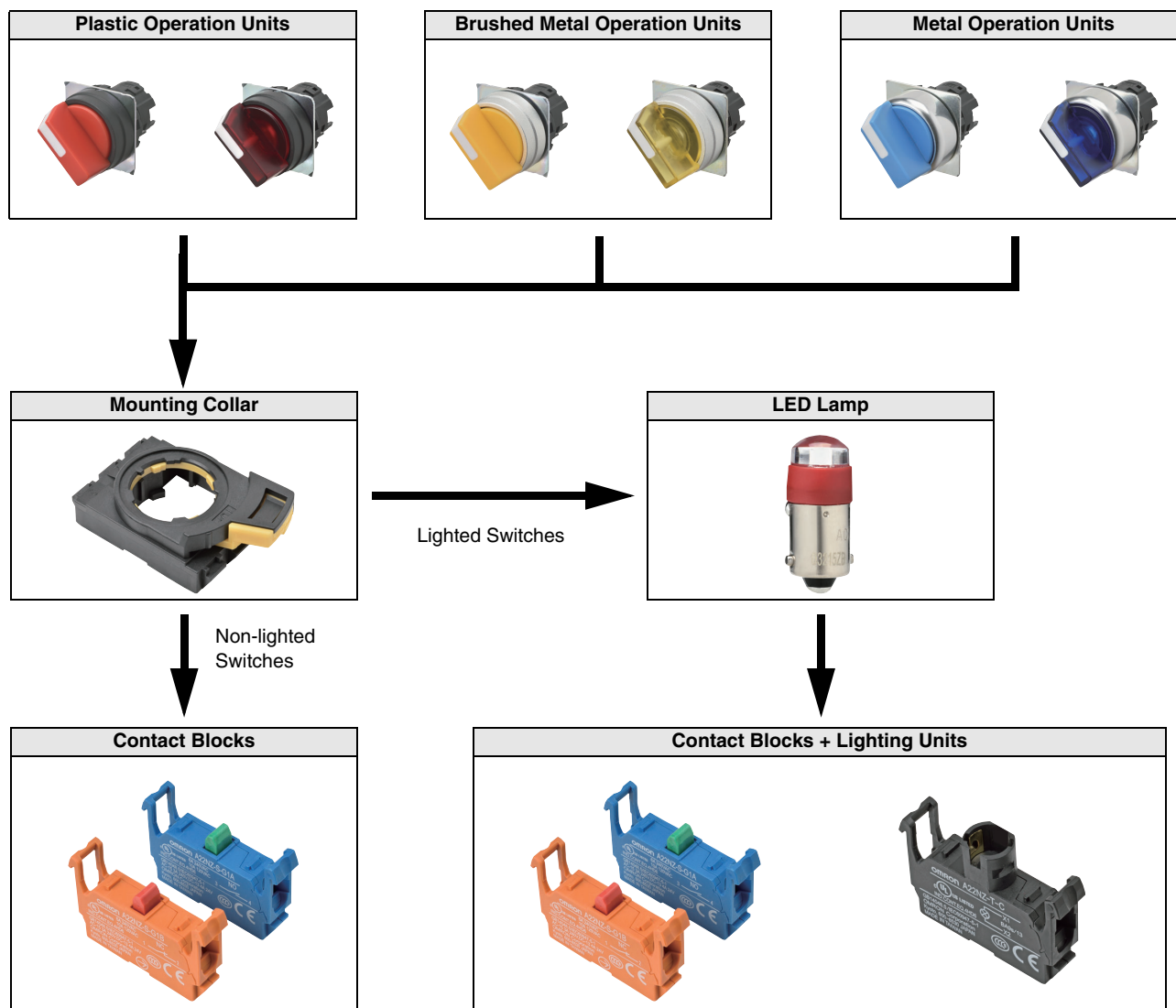
Note: Normally, the Operation Unit and LED Lamp with the same color are combined.
However, opaque white is available by combining a white Operation Unit and yellow LED. A22N□-□□□-TWA-G□□□-Y□

■ Subassemblies: Refer to pages 9 to 12.
(You can order Operation Units, LED Lamps, Mounting Collars, and Contact Blocks individually.)

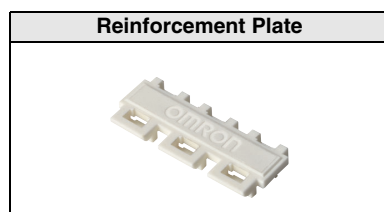
■ Specifications: Refer to page 10 and refer to the A22NN/A22NL.
■ Dimensions: Refer to page 14.
■ Accessories and tools: Refer to the A22NN/A22NL.

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

Operation Unit Non-lighted Switches

Bezel material and shape			Plastic	Brushed metal	Metal
No. of positions	Reset method	Operation Unit color	Model	Model	Model
2	Manual	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	Opaque red	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
	Automatic reset on left and right		A22NZ-3BB-NRA	A22NZ-3MB-NRA	A22NZ-3RB-NRA
2	Manual	Opaque green	A22NZ-2BM-NGA	A22NZ-2MM-NGA	A22NZ-2RM-NGA
	Automatic reset on left		A22NZ-2BL-NGA	A22NZ-2ML-NGA	A22NZ-2RL-NGA
3	Manual	Opaque green	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	A22NZ-2BM-NYA	A22NZ-2MM-NYA	A22NZ-2RM-NYA
	Automatic reset on left		A22NZ-2BL-NYA	A22NZ-2ML-NYA	A22NZ-2RL-NYA
3	Manual	Opaque yellow	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
	Automatic reset on left and right		A22NZ-3BB-NYA	A22NZ-3MB-NYA	A22NZ-3RB-NYA
2	Manual	Opaque white	A22NZ-2BM-NWA	A22NZ-2MM-NWA	A22NZ-2RM-NWA
	Automatic reset on left		A22NZ-2BL-NWA	A22NZ-2ML-NWA	A22NZ-2RL-NWA
3	Manual	Opaque white	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 blue	A22NZ-2BM-NAA	A22NZ-2MM-NAA	A22NZ-2RM-NAA
	Automatic reset on left		A22NZ-2BL-NAA	A22NZ-2ML-NAA	A22NZ-2RL-NAA
3	Manual	Opaque blue	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
	Automatic reset on left and right		A22NZ-3BB-NAA	A22NZ-3MB-NAA	A22NZ-3RB-NAA
2	Manual	Opaque black	A22NZ-2BM-NBA	A22NZ-2MM-NBA	A22NZ-2RM-NBA
	Automatic reset on left		A22NZ-2BL-NBA	A22NZ-2ML-NBA	A22NZ-2RL-NBA
3	Manual	Opaque black	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 10 and refer to the A22NN/A22NL.

■ Dimensions: Refer to page 14.

■ 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.

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	Transparent red	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	Transparent green	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	Transparent yellow	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	Transparent white	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	Transparent blue	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	Transparent orange	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 10 and refer to the A22NN/A22NL.

■ Dimensions: Refer to page 14.


■ 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.

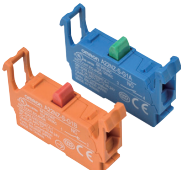
LED Lamps

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 10 and refer to the A22NN/A22NL.

■ Dimensions: Refer to page 14.

■ 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	Malfuction		10 to 55 Hz, 1.5-mm double amplitude (malfuction within 1 ms)	
Shock resistance	Malfuction		1,000 m/s ² max. (malfuction 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 ^{*1}			–25 to 70°C	–25 to 55°C
Ambient operating humidity			35% to 85% RH	
Ambient storage temperature ^{*1}			–40 to 80°C	
Degree of protection ^{*2}			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.

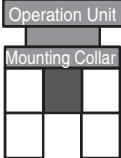
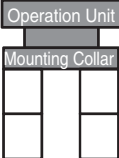
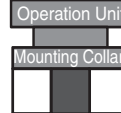
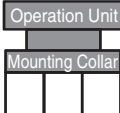
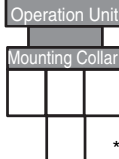
*2. Degree of protection from the front of the panel.

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				
				

* 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.

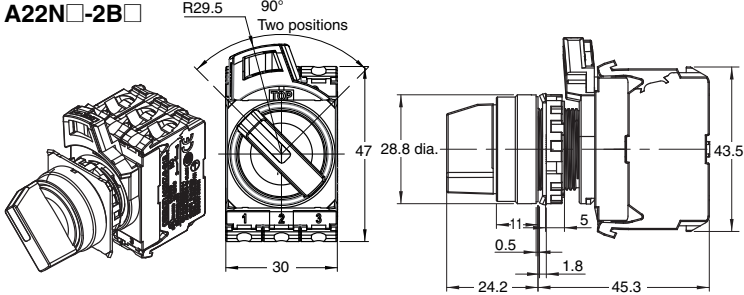
A22NS/A22NW

Dimensions

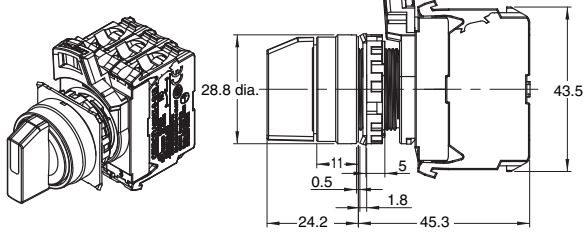
(Unit: mm)

Lighted and Non-lighted Selection Switches

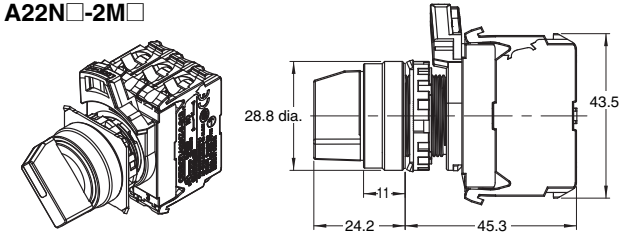
Two-position Switches with Plastic Bezels



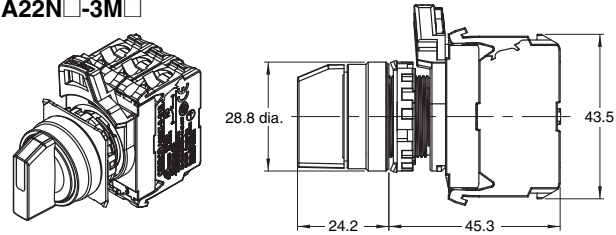
Three-position Switches with Plastic Bezels



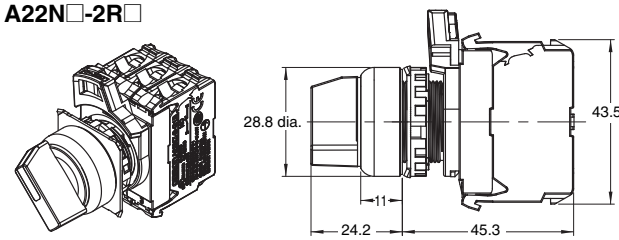
Two-position Switches with Brushed Metal Bezels



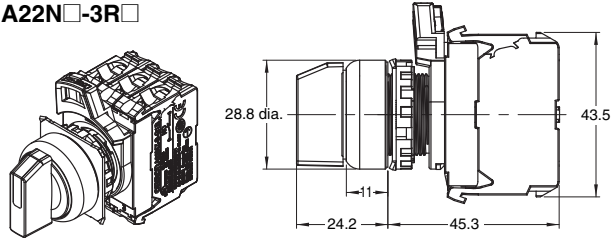
Three-position Switches with Brushed Metal Bezels



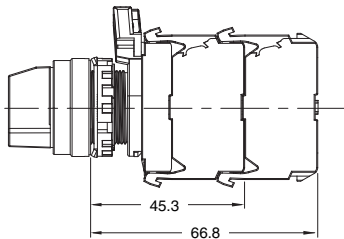
Two-position Switches with Metal Bezels



Three-position Switches with Metal Bezels

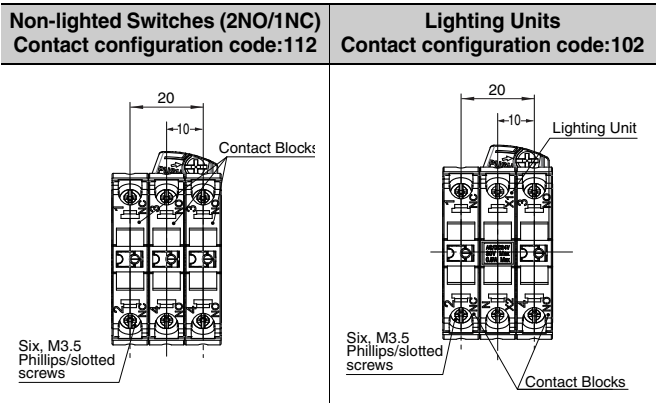


Depth with Linked Units

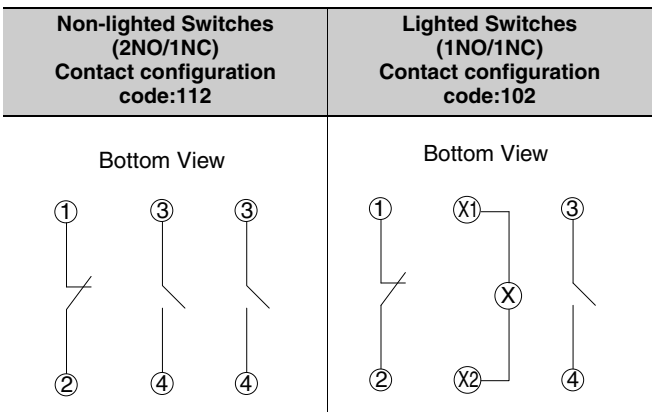


Terminal Wiring Diagrams

Bottom View



Terminal Connection Diagrams



Safety Precautions

Refer to *Safety Precautions for All Pushbutton Switches/Indicators* for common precautions.
Read the *Safety Precautions* in the A22NN/A22NL datasheet.

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