

Key-type Selector Switches A22NK

Key-type Selector Switches with 22-mm Diameters.

Universal Design That Emphasizes Color Coding, Workability, and Safety

Easy to Use

- You can connect up to three Switch Units in one stage for multistage expansion.
- Terminal screw hold-on structure that is compatible with round crimp terminals.
- The terminals can be retightened when Switch Units are stacked.
- Switch Units can be attached in any direction for easy assembly.

Safety

- Easy-to-operate lock lever for reliable locking.
- Greater safety with a structure that provides finger protection.
- Different colors of Switch Units help prevent wiring errors.

Product Lineup

- Global applicability with safety standards and different voltage specifications.
- Mount the Switches in 25-mm-dia. panel cutouts merely by reversing the mounting nut.
- Many Switch variations with different colors, shapes, and materials of buttons and bezels.



Refer to Safety Precautions for All Pushbutton Switches/Indicators and Safety Precautions in the A22N datasheet



A22NK

Structure

Contact Configuration

Two Notches

No. of outputs	Code	Contact con-	Switch posi-	Contacts	Notch position		
No. or outputs	Code	figuration	tion	Contacts	1	2	
			(1)	NO		ON	
1	100	SPST-NO	(2)				
			(3)				
			(1)				
1	002	SPST-NC	(2)				
			(3)	NC	ON		
		SPST-NO	(1)	NO		ON	
2	102	+	(2)				
		SPST-NC	(3)	NC	ON		
	101		(1)	NO		ON	
2		DPST-NO	(2)				
			(3)	NO		ON	
	202	DPST-NC	(1)	NC	ON		
2			(2)				
			(3)	NC	ON		
	111		(1)	NO		ON	
3		3PST-NO	(2)	NO		ON	
			(3)	NO		ON	
			(1)	NC	ON		
3	222	3PST-NC	(2)	NC	ON		
			(3)	NC	ON		
		SPST-NO	(1)	NO		ON	
3	122	+	(2)	NC	ON		
		DPST-NC	(3)	NC	ON		
		DPST-NO	(1)	NO		ON	
3	112	+	(2)	NO		ON	
		SPST-NC	(3)	NC	ON		

Three Notches

		Contact con-	Switch posi- tion		Notch position			
No. of outputs	Code	figuration		Contacts	1	0	2	
			(1)	NO	ON			
2	110	DPST-NO	(2)	NO	ON		ON	
			(3)					
			(1)					
2	011	DPST-NO	(2)	NO	ON		ON	
			(3)	NO			ON	
			(1)	NO	ON			
2	101	DPST-NO	(2)					
			(3)	NO			ON	
	220	DPST-NC	(1)	NC		ON	ON	
2			(2)	NC		ON		
			(3)					
	022		(1)					
2		DPST-NC	(2)	NC		ON		
			(3)	NC	ON	ON		
			(1)	NC		ON	ON	
2	202	DPST-NC	(2)					
			(3)	NC	ON	ON		
		SPST-NO	(1)	NO	ON			
2	120	+	(2)	NC		ON		
		SPST-NC	(3)					

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No. of outputs	Code	Contact con-	Switch posi-	Contacts		Notch position		
No. or outputs	Code	figuration	tion	Comacis	1	0	2	
		SPST-NO	(1)	NO	ON			
2	102	+	(2)					
		SPST-NC	(3)	NC	ON	ON		
		SPST-NO	(1)	NC		ON	ON	
2	210	+	(2)	NO	ON		ON	
		SPST-NC	(3)					
		SPST-NO	(1)	NC		ON	ON	
2	201	+	(2)					
		SPST-NC	(3)	NO			ON	
		SPST-NO	(1)					
2	012	+	(2)	NO	ON		ON	
		SPST-NC	(3)	NC	ON	ON		
		SPST-NO	(1)					
2	021	+	(2)	NC		ON		
		SPST-NC	(3)	NO			ON	
3	111		NO	(1)	ON			
		3PST-NO	NO	(2)	ON		ON	
			NO	(3)			ON	
	222		NC	(1)		ON	ON	
3		3PST-NC	NC	(2)		ON		
			NC	(3)	ON	ON		
	122		SPST-NO	NO	(1)	ON		
3		+	NC	(2)		ON		
		DPST-NC	NC	(3)	ON	ON		
			SPST-NO	NC	(1)		ON	ON
3	212	+	NO	(2)	ON		ON	
			DPST-NC	NC	(3)	ON	ON	
		SPST-NO	NC	(1)		ON	ON	
3	221	+	NC	(2)		ON		
		DPST-NC	NO	(3)	ON		ON	
		DPST-NO	NC	(1)		ON	ON	
3	211	+	NO	(2)	ON		ON	
		SPST-NC	NO	(3)			ON	
		DDCT NO	NO	(1)	ON			
3	121	DPST-NO +	NC	(2)		ON		
-	141	SPST-NC	NO	(3)			ON	
		DDCT NO	NO	(1)	ON			
3	112	DPST-NO +	NO	(2)	ON		ON	
	· ·-	SPST-NC	NC	(3)	ON	ON		

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Model Number Structure

Model Number Legend - - - - - - Shipped as a set that includes the Operation Unit and Switch Unit.

For information on combinations, refer to *Ordering Information* on pages 5 to 6.

Model Numbers for Sets

(1) Type

Code	Туре
K	Key-type Selector Switch

(2) Number of Notebox and

(2) Number of Notches and Bezel Material

Code	No. of notches	Bezel material
2B	2	Plastic
2M	2	Metal
2R	2	Rounded metal
3B	3	Plastic
ЗМ	3	Metal
3R	3	Rounded metal

(3) Reset Method

Ì	Code		Reset me	thod
	М	Manual	Two- notch manual	<u>\</u>
		Mariuai	Three- notch manual	\rightarrow
		Auto- matic re-	Two- notch au- tomatic	\Diamond
	L	set on left	Three- notch left automatic	\checkmark
	R	Auto- matic re- set on right	Three- notch right au- tomatic	\
	В	Reset from left or right	Three- notch left or right automatic	

(4) Key Number

Code	No.
01	No.1

(5) Key Release Position

Code	Release position	Two notches	Three notches
А	All posi- tions	000	
В	Left	•	•
С	Right	• 0	•
D	Center		• • •
E	Left and		
F	Right and center		• 00
G	Left and right		

- O: Release position
- •: Locked position

(6) Degree of Protection

Code	Protection
Α	IP66, NEMA 4X, NEMA13

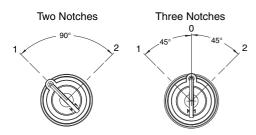
(7) Contact Specification

Code	Description
G	General purpose

(8) Contact Configuration

				_				
Code	Swi	itch its	Unit	posi	tion	Two	Three Notches	
	NO	NC	1	2	3	Notches	Notches	
100	1	0	NO			Yes		
002	0	1			NC	Yes		
101	2	0	NO		NO	Yes	Yes	
102	1	1	NO		NC	Yes	Yes	
201	1	1	NC		NO		Yes	
202	0	2	NC		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	

Operation Angle



- Specifications: Refer to the A22N.
- Dimensions: See page 10.

■ Precautions for correct use: Refer to the A22N.

Ordering Information

Model Numbers for Sets---- Shipped as a set that includes the Operation Unit and Switch Unit...

(Some items cannot be combined. Contact your OMRON sales representative for details.)

Two-notch, Key-type Selector Switches

Appearance	Bezel type	No. of outputs	Model	(3) Reset method	(5) Key release positions	(8)(8)(8) Contact configuration
Plastic bezels		1				100 002
	2B	2	A22NK-2B(3)-01(5)A-G(8)(8)(8)			102 101 202
		3		M: Manual L: Automatic reset on left	A: All positions B: Left C: Right	111 222 122 112
Metal bezels		1				100 002
	2M	2	A22NK-2M(3)-01(5)A-G(8)(8)(8)			102 101 202
		3				111 222 122 112
Rounded metal bezels		1				100 002
	2R	2	A22NK-2R(3)-01(5)A-G(8)(8)(8)			102 101 202
		3				111 222 122 112

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Three-notch, Key-type Selector Switches

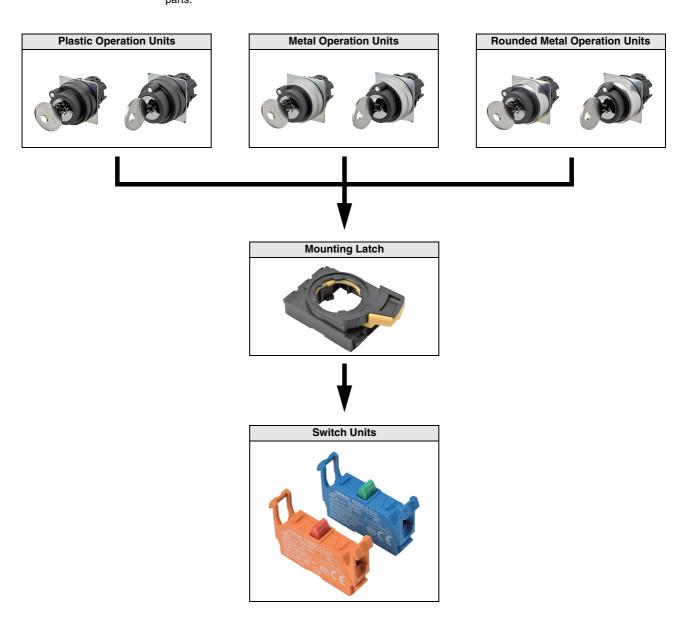
Appearance	Bezel type	No. of out-	Model	(3) Reset method	(5) Key release positions	(8)(8)(8) Contact configuration
Plastic bezels	3B	2	A22NK-3B1(3)-01(5)A-G(8)(8)(8)	M: Manual L: Automatic reset on left R: Automatic reset on right B: Automatic reset in center	A: All positions B: Left B: Left D: Center	110 011 101 220 022 202 120 102 210 201 012 021
		3				111 222 122 212 221 211 121
Metal bezels	зм	2	A22NK-3M1(3)-01(5)A-G(8)(8)(8)			110 011 101 220 022 202 120 102 210 201 012
		3				111 222 122 212 221 211 121
Rounded metal bezels	3R	2	A22NK-3R1(3)-01(5)A-G(8)(8)(8)			110 011 101 220 022 202 120 102 210 201 012 021
		3				111 222 122 212 221 211 121

Subassemblies: Refer to pages 7 to 9. (You can order Operation Units, Lamp Units, and Switch Units individually.)

[■] Specifications: Refer to the A22N. ■ Dimensions: Refer to page 10.

Ordering Information

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



 * Use a Reinforcement Plate for greater strength.



 \blacksquare Model numbers of sets: Refer to page 5.

■ Specifications: Refer to the A22N. ■ Dimensions: Refer to page 10.

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Type

Subassemblies - - - - You can order Operation Units, Mounting Latches, and Switch Units 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 Units

		Plastic	Metal	Rounded metal	
Be	zel material and shape				(1) Key release positions
No. of notches	Reset method	Model	Model	Model	
	Manual	A22NZ-2BM-01(1)A	A22NZ-2MM-01(1)A	A22NZ-2RM-01(1)A	A: All positions
2	Automatic re- set on left	A22NZ-2BL-01(1)A	A22NZ-2ML-01(1)A	A22NZ-2RL-01(1)A	B: Left C: Right
	Manual	A22NZ-3BM-01(1)A	A22NZ-3MM-01(1)A	A22NZ-3RM-01(1)A	A: All positions
	Automatic re- set on left	A22NZ-3BL-01(1)A	A22NZ-3ML-01(1)A	A22NZ-3RL-01(1)A	B: Left C: Right
3	Automatic re- set on right	A22NZ-3BR-01(1)A	A22NZ-3MR-01(1)A	A22NZ-3RR-01(1)A	D: Center E: Left and center
	Reset from left or right	A22NZ-3BB-01(1)A	A22NZ-3MB-01(1)A	A22NZ-3RB-01(1)A	F: Right and center G: Left and right

■ Model numbers of sets: Refer to page 5.

■ Specifications: Refer to the A22N. ■ Dimensions: Refer to page 10.

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Type

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

Mounting Latch

Appearance	Model
	A22NZ-H-0

Switch Units

Appearance	Contact Specification	Model
	SPST-NO	A22NZ-S-G1A
CC	SPST-NC	A22NZ-S-G1Ça

Reinforcement Plate

Appearance	Model
	A22NZ-C-01

Accessories

Appearance	Model
Key	
New York The New Y	A22NZ-K-01

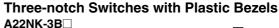
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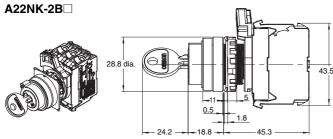
Dimensions (Unit: mm)

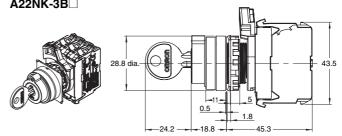
Lighted and Non-lighted Key-type Selection

Switches

Two-notch Switches with Plastic Bezels

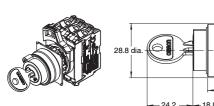


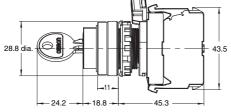


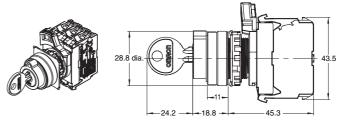


Two-notch Switches with Metal Bezels A22NK-2M□

Three-notch Switches with Metal Bezels A22NK-3M□

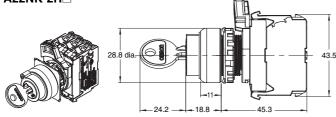


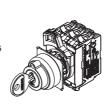


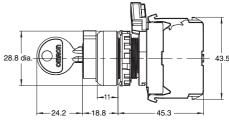


Two-notch Switches with Rounded Metal Bezels A22NK-2R□

Three-notch Switches with Rounded Metal Bezels A22NK-3R□ __

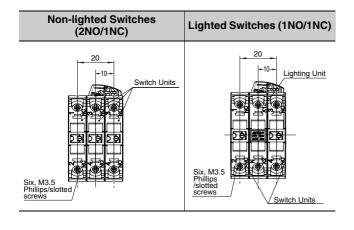






Terminal Wiring Diagrams Bottom View

Terminal Connection Diagrams



Non-lighted Switches (2NO/1NC)	Lighted Switches (1NO/1NC)
Bottom View	Bottom View

Precautions

Refer to Safety Precautions for All Pushbutton Switches/Indicators for common precautions. Read the Safety Precautions in the A22N datasheet.

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