

Key-type Selector Switches

A22NK

Keyed 22-mm Selector Switches

Universal Design.

Emphasis on Color Coding, Workability, and Safety.

Easy to Use

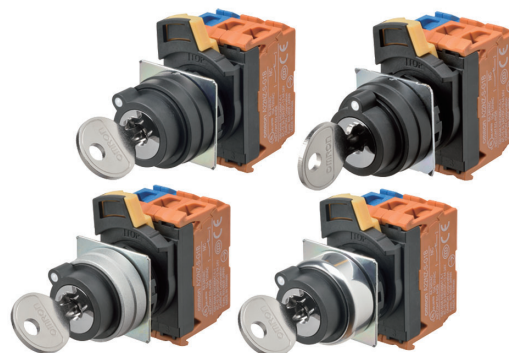
- You can connect up to three Contact Blocks in one stage for multistage expansion.
- The terminals can be retightened when Contact Blocks are stacked.
- Contact Blocks can be attached in any direction for easy assembly.
- Screw terminal structure is compatible with round crimp terminals.

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

- Meet global safety standards.
- Available with metal or plastic bezels.
- All models are keyed alike.
- Standard-feature degree of protection: IP66 and NEMA 13.



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

A22NK

Model Number Structure

Model Number Legend

-----Shipped as a set that includes the Operation Unit, Mounting Collar, and Contact Block.
For information on combinations, refer to *Ordering Information* on pages 5 to 6.

Model Numbers for Sets

A 2 2 N ⁽¹⁾ **K** - ⁽²⁾ **2B** ⁽³⁾ **M** - ⁽⁴⁾ **01** ⁽⁵⁾ **A** ⁽⁶⁾ **A** - ⁽⁷⁾ **G** ⁽⁸⁾ **100**

(1) Type

Code	Type
K	Key-type Selector Switch

(4) Key Number

Code	No.
01	No.1

(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

(5) Key Release Position

Code	Release position	Two positions	Three positions
A	All positions		
B	Left		
C	Right		
D	Center	---	
G	Left and right	---	

○: Release position
●: Locked position

(3) Reset Method

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

(6) Degree of Protection

Code	Protection
A	IP66, NEMA13

(7) Contact Specification

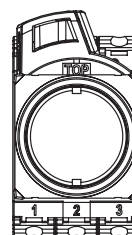
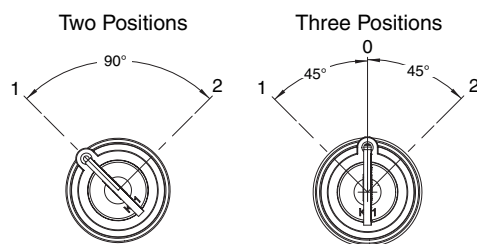
Code	Description
G	General purpose

(8) Contact Configuration

Code	Contact Blocks		Unit position			Two positions	Three positions
	NO	NC	1	2	3		
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

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

Operation Angle



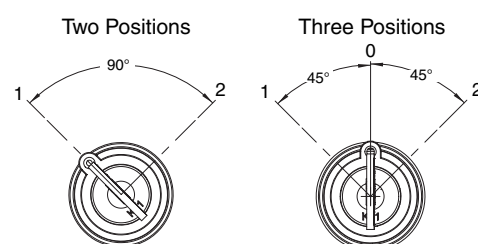
■ Specifications: Refer to page 10 and refer to the A22NN/A22NL. ■ Precautions for correct use: Refer to the A22NN/A22NL.
■ Dimensions: Refer to page 11.

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

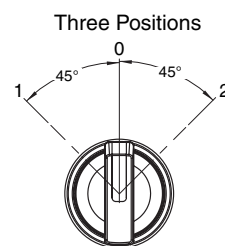


Three Positions

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	
2	120	SPST-NO/ SPST-NC	(1)	NO	ON		
			(2)	NC		ON	
			(3)	---	---	---	---

No. of outputs	Code	Contact configuration	Unit position	Contacts	Position		
					1	0	2
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






Ordering Information

Model Numbers for Sets - - - Shipped as a set that includes the Operation Unit, Mounting Collar, and Contact Block.

Two-position, Key-type Selector Switches

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

Three-position, Key-type Selector Switches

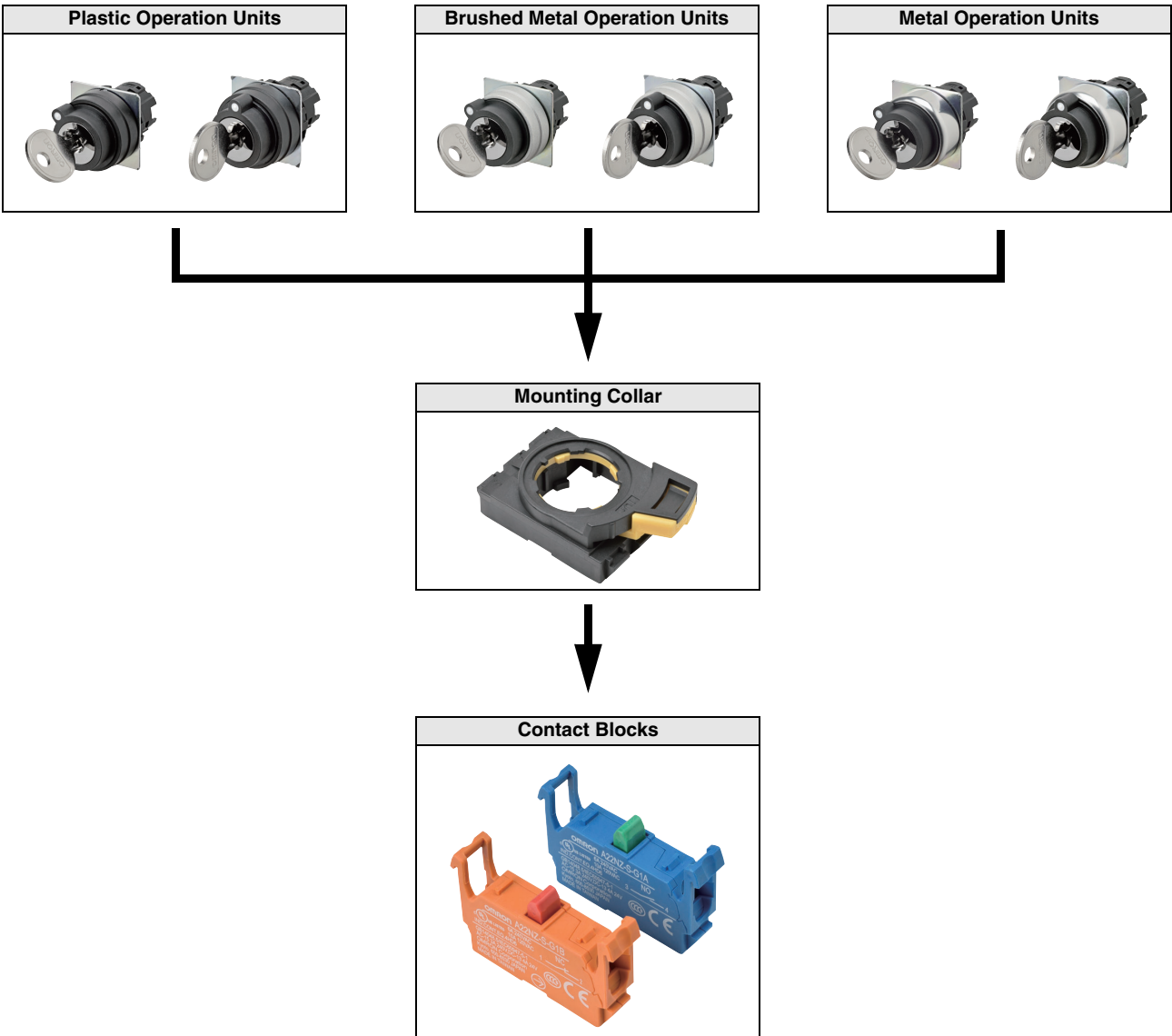
Appearance	Bezel material	No. of out-puts	Model	(3) Reset method	(5) Key release positions	(8)(8)(8) Contact configuration				
Plastic bezels 	3B	2	A22NK-3B(3)-01(5)A-G(8)(8)(8)	M: Manual L: Automatic reset on left R: Automatic reset on right B: Automatic reset on left and right	A: All positions B: Left C: Right D: Center G: Left and right	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	A22NK-3M(3)-01(5)A-G(8)(8)(8)			M: Manual L: Automatic reset on left R: Automatic reset on right B: Automatic reset on left and right	A: All positions B: Left C: Right D: Center G: Left and right	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	A22NK-3R(3)-01(5)A-G(8)(8)(8)					M: Manual L: Automatic reset on left R: Automatic reset on right B: Automatic reset on left and right	A: All positions B: Left C: Right D: Center G: Left and right	110 011 101 220 022 202 120 102 210 201 012 021
		3								111 222 122 212 221 211 121 112

■ Subassemblies: Refer to pages 7 to 9.
 (You can order Operation Units, Mounting Collars, and Contact Blocks individually.)

■ Specifications: Refer to page 10 and refer to the A22NN/A22NL.
 ■ Dimensions: Refer to page 11.
 ■ Accessories and tools: Refer to the A22NN/A22NL.

Ordering Information

Subassemblies - - - - You can order Operation Units, 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 page 5.
- Specifications: Refer to page 10 and refer to the A22NN/A22NL.
■ Dimensions: Refer to page 11.
■ Accessories and tools: Refer to the A22NN/A22NL.

A22NK

Ordering Information

Subassemblies - - - - You can order Operation Units, 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 Units

Bezel material and shape		Plastic	Brushed metal	Metal	(1) Key release positions
No. of positions	Reset method	Model	Model	Model	
2	Manual	A22NZ-2BM-01(1)A	A22NZ-2MM-01(1)A	A22NZ-2RM-01(1)A	A: All positions B: Left C: Right
	Automatic reset on left	A22NZ-2BL-01(1)A	A22NZ-2ML-01(1)A	A22NZ-2RL-01(1)A	
3	Manual	A22NZ-3BM-01(1)A	A22NZ-3MM-01(1)A	A22NZ-3RM-01(1)A	A: All positions B: Left C: Right D: Center G: Left and right
	Automatic reset on left	A22NZ-3BL-01(1)A	A22NZ-3ML-01(1)A	A22NZ-3RL-01(1)A	
	Automatic reset on right	A22NZ-3BR-01(1)A	A22NZ-3MR-01(1)A	A22NZ-3RR-01(1)A	
	Automatic reset on left and right	A22NZ-3BB-01(1)A	A22NZ-3MB-01(1)A	A22NZ-3RB-01(1)A	


■ Model numbers of sets: Refer to page 5.

■ Specifications: Refer to page 10 and refer to the A22NN/A22NL.
 ■ Dimensions: Refer to page 11.
 ■ Accessories and tools: Refer to the A22NN/A22NL.

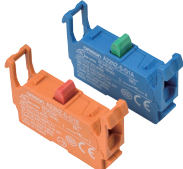
Ordering Information

Subassemblies -- You can order Operation Units, 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.


Mounting Collar

Appearance	Model
	A22NZ-H-01


Contact Blocks

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

Reinforcement Plate

Appearance	Model
	A22NZ-A-C01

Accessories

Appearance	Model
Key 	A22NZ-K-01

Specifications

Characteristics

Type		Key-type Selector Switches
Item		
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 ² 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*1		−25 to 70°C
Ambient operating humidity		35% to 85% RH
Ambient storage temperature*1		−40 to 80°C
Degree of protection*2		IP66, NEMA13
Electric shock protection class		Class II
PTI (tracking characteristic)		175
Degree of contamination (application environment)		3 (IEC 60947-5-1)
Weight		Approx. 65 g (for 1NC/1NO)

*1. With no icing or condensation.

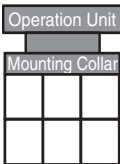
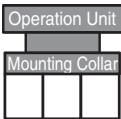
*2. Degree of protection from the front of the panel.

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

Type		Key-type Selector Switches	
Item		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

	Key-type Selector Switches	
	2 positions	3 positions
Linking example		

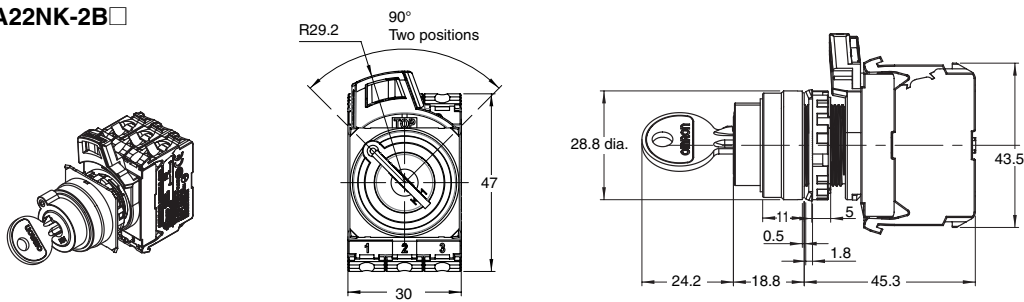
Note: If you increase the number of Contact Blocks, evaluate the Switch under actual working conditions before permanent installation and use the Switch within a number of switching operations that will not adversely affect the Switch's performance.

Dimensions

Lighted and Non-lighted Key-type Selection Switches

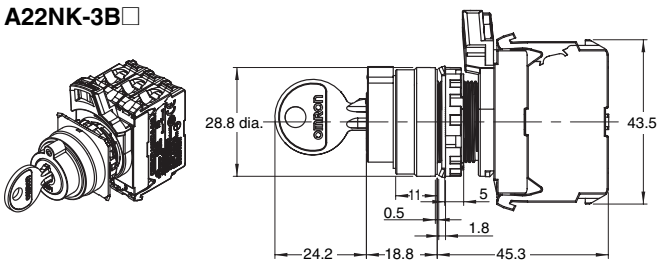
Two-position Switches with Plastic Bezels

A22NK-2B□



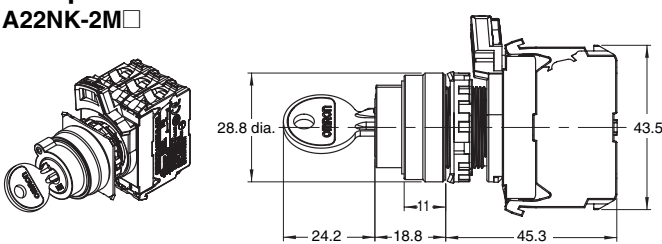
Three-position Switches with Plastic Bezels

A22NK-3B□



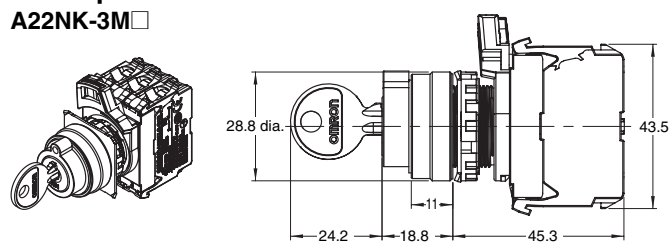
Two-position Switches with Brushed Metal Bezels

A22NK-2M□



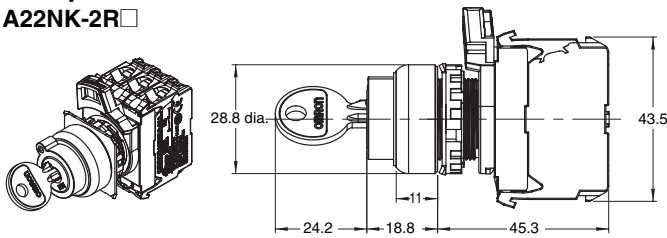
Three-position Switches with Brushed Metal Bezels

A22NK-3M□



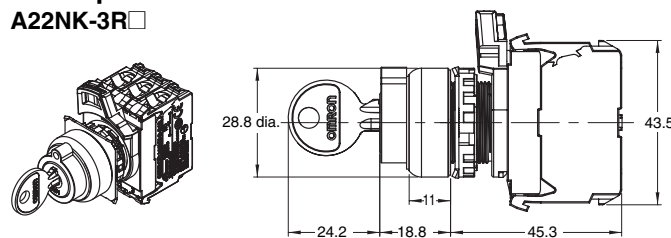
Two-position Switches with Metal Bezels

A22NK-2R□

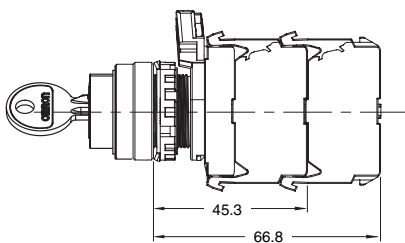


Three-position Switches with Metal Bezels

A22NK-3R□

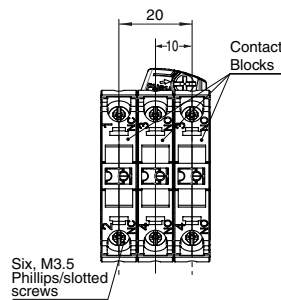


Depth with Linked Units



Terminal Wiring Diagrams
Bottom View

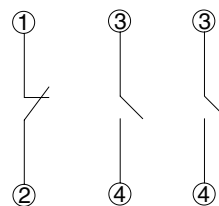
2NO/1NC
Contact configuration
code:112



Terminal Connection Diagrams

2NO/1NC
Contact configuration
code:112

Bottom View



A22NK

Safety Precautions

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

Precautions for Correct Use

Insert the key all of the way to the back of the cylinder before you turn it.

Terms and Conditions Agreement

Read and understand this catalog.

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Change in Specifications.

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

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