

Key-type Selector Switches

A30NZ-□M□-01□A

Keyed 30-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 Contract Blocks (NO: blue, NC: orange) help prevent wiring errors.

Product Lineup

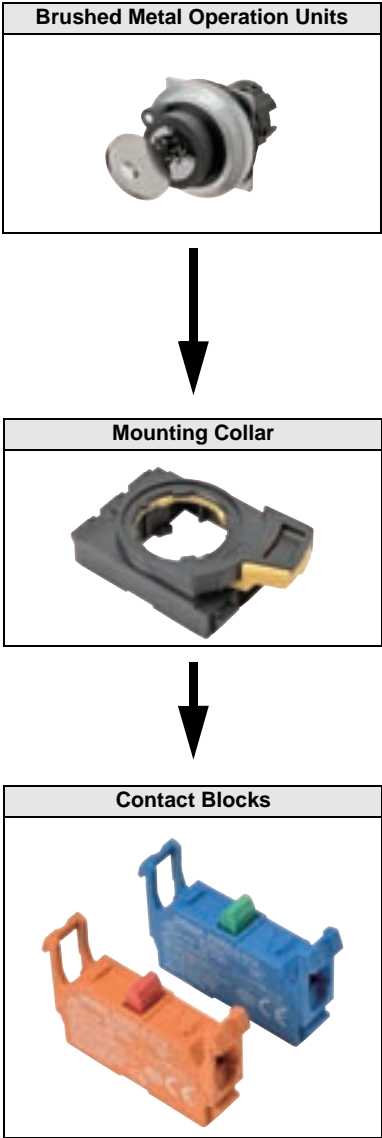
- Meet global safety standards.
- All models are keyed alike.



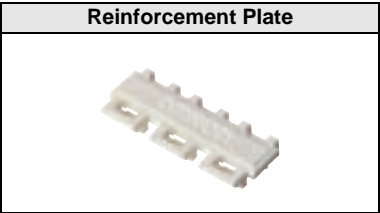
Refer to *Safety Precautions for All Pushbutton Switches/Indicators* and *Safety Precautions* in the A30NZ-M□□-□□A datasheet

Structure

Subassemblies ----- Order Operation Units, Mounting Collars, and Contact Blocks individually. The same Mounting Collars and Contact Blocks are also used for the A22N Series.



Note: Use a Reinforcement Plate for greater strength.



■ Specifications: Refer to page 6 and refer to the A30NZ-M□□-□□A.
■ Accessories and tools: Refer to the A22NN/A22NL. ■ Dimensions: Refer to page 7.

Model Number Structure

Model Number Legend - - - - Order Operation Units, Mounting Collars, and Contact Blocks individually. The same Mounting Collars and Contact Blocks are also used for the A22N Series.

Subassemblies

A 3 0 N (1) (2) (3) (4) (5) (6)
Z - 2 M M - 0 1 A A

(1) Type

Code	Type
Z	Subassembly

(2) Number of Positions and Bezel Material

Code	No. of positions	Bezel material
2M	2	Brushed metal
3M	3	Brushed 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) Key Number

Code	No.
01	No.1

(5) Key Release Position

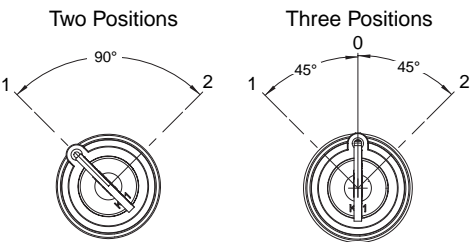
Code	Release position	Two positions	Three positions
A	All positions		
B	Left		
C	Right		
D	Center	---	
E	Left and center	---	
F	Right and center	---	
G	Left and right	---	

○: Release position
●: Locked position

(6) Degree of Protection

Code	Protection
A	IP66

Operation Angle



■ Specifications: Refer to page 6 and refer to the A30NZ-M□□-□□A.
■ Dimensions: Refer to page 7. ■ Precautions for correct use: Refer to the A30NZ-M□□-□□A.

A30NZ-□M□-01□A

Type

Subassemblies - - - - Order Operation Units, Mounting Collars, and Contact Blocks individually. The same Mounting Collars and Contact Blocks are also used for the A22N Series.

Operation Units


Bezel material and shape		Brushed metal	(1) Key release positions
No. of positions	Reset method	Model	
2	Manual	A30NZ-2MM-01(1)A	A: All positions B: Left C: Right
	Automatic reset on left	A30NZ-2ML-01(1)A	
3	Manual	A30NZ-3MM-01(1)A	A: All positions B: Left C: Right D: Center E: Left and center F: Right and center G: Left and right
	Automatic reset on left	A30NZ-3ML-01(1)A	
	Automatic reset on right	A30NZ-3MR-01(1)A	
	Automatic reset on left and right	A30NZ-3MB-01(1)A	

■ Specifications: Refer to page 6 and refer to the A30NZ-M□□-□□A.
■ Accessories and tools: Refer to the A22NN/A22NL. ■ Dimensions: Refer to page 7.


Ordering Information

Subassemblies - - Order Operation Units, Mounting Collars, and Contact Blocks individually. The same Mounting Collars and Contact Blocks are also used for the A22N Series.


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 (When Operation Unit, Mounting Collar, and Contact Blocks Are Combined)

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
Electric shock protection class		Class II
PTI (tracking characteristic)		175
Degree of contamination (application environment)		3 (IEC 60947-5-1)
Weight		Approx. 75 g (for 1NC/1NO)

*1. With no icing or condensation.

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

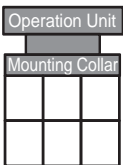
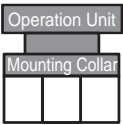
Operating Characteristics (for SPST-NO/ SPST-NC)

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.	---

Note: For Knob-type or Key-type Selector Switches, this is the rotational torque.

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.

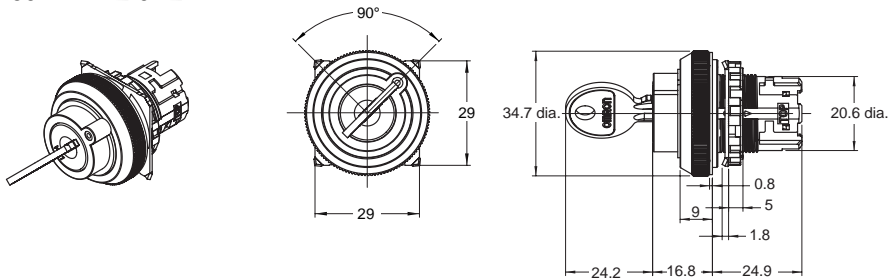
Dimensions

(Unit: mm)

Lighted and Non-lighted Key-type Selection Switches

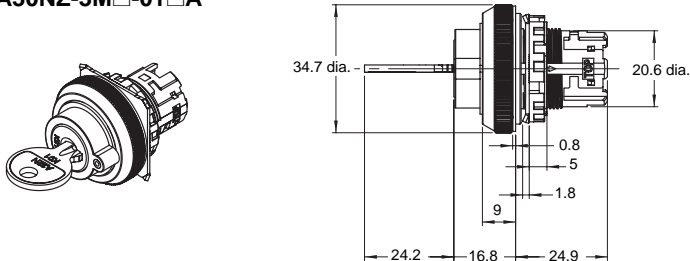
Two-position Switches with Brushed Metal Bezels

A30NZ-2M□-01□A

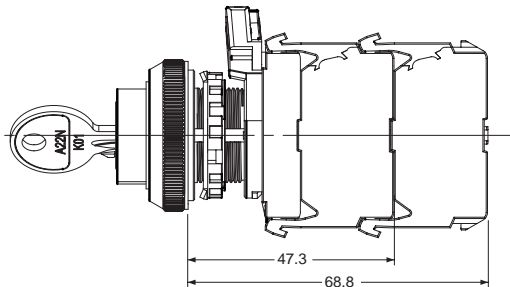


Three-position Switches with Brushed Metal Bezels

A30NZ-3M□-01□A



Depth with Linked Units



Safety Precautions

Refer to *Safety Precautions for All Pushbutton Switches/Indicators* for common precautions.
Read the *Safety Precautions* in the A30NZ-M□□-□□A datasheet.

Precautions for Correct Use

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

This image shows a full page of white paper with horizontal grey ruling lines. The word "MEMO" is printed at the top center in bold black capital letters. The rest of the page is filled with evenly spaced horizontal lines, typical of a notebook or memo pad.

Terms and Conditions Agreement

Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranties.

- (a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.
- (b) Limitations. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE.

Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or otherwise of any intellectual property right. (c) Buyer Remedy. Omron's sole obligation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Companies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty.

See <http://www.omron.com/global/> or contact your Omron representative for published information.

Limitation on Liability; Etc.

OMRON COMPANIES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY.

Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.

Suitability of Use.

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

Performance Data.

Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

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.

Errors and Omissions.

Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

OMRON Corporation **Industrial Automation Company**
Tokyo, JAPAN

Contact: www.ia.omron.com

Regional Headquarters

OMRON EUROPE B.V.

Wegalaan 67-69, 2132 JD Hoofddorp
The Netherlands

Tel: (31)2356-81-300/Fax: (31)2356-81-388

OMRON ELECTRONICS LLC

2895 Greenspoint Parkway, Suite 200
Hoffman Estates, IL 60169 U.S.A

Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

OMRON ASIA PACIFIC PTE. LTD.

No. 438A Alexandra Road # 05-05/08 (Lobby 2),
Alexandra Technopark,
Singapore 119967

Tel: (65) 6835-3011/Fax: (65) 6835-2711

OMRON (CHINA) CO., LTD.

Room 2211, Bank of China Tower,
200 Yin Cheng Zhong Road,
PuDong New Area, Shanghai, 200120, China

Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

Authorized Distributor:

© OMRON Corporation 2015 All Rights Reserved.
In the interest of product improvement,
specifications are subject to change without notice.

CSM_1_1_0415

Cat. No. A245-E1-01

0415 (0415)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Omron:

[A30NZ-2ML-01BA](#) [A30NZ-3ML-01DA](#) [A30NZ-3ML-01BA](#) [A30NZ-3MM-01GA](#) [A30NZ-2MM-01CA](#) [A30NZ-3MM-01CA](#) [A30NZ-3MM-01DA](#) [A30NZ-3MB-01DA](#) [A30NZ-3MR-01DA](#) [A30NZ-3MM-01BA](#) [A30NZ-3MR-01CA](#) [A30NZ-2MM-01AA](#) [A30NZ-3MM-01AA](#) [A30NZ-2MM-01BA](#)