

Selector Switches

A30NZ-□M□-□□A

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.
- 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.
- Many color variations.



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

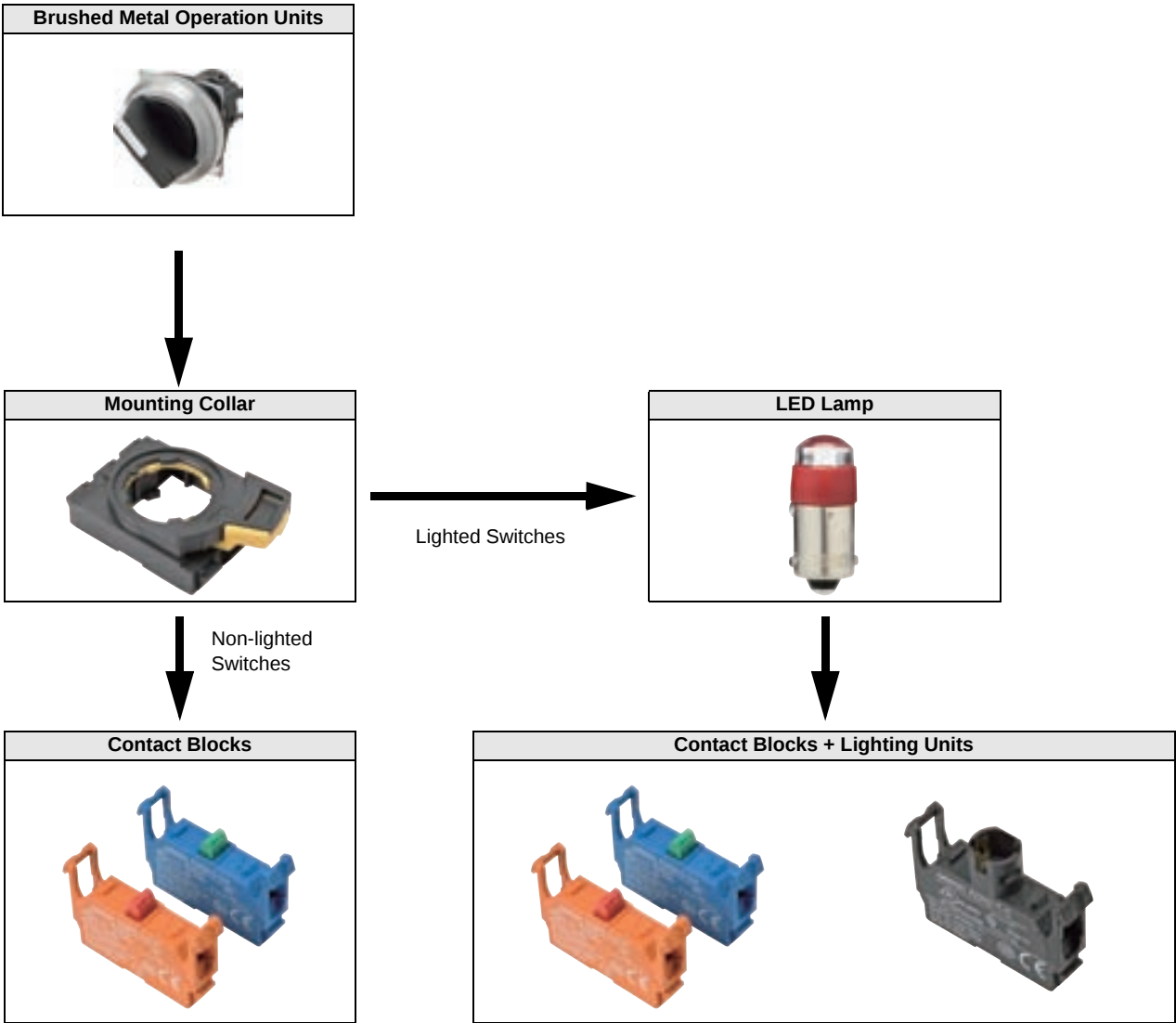
Operation Unit Colors

Non-lighted Switches	A30NZ-□M□-N□A Opaque		Red	Green	Yellow	White	Blue	Black	
									
Lighted Switches	A30NZ-□M□-T□A 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).

Structure

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

Subassemblies

A 3 0 N ⁽¹⁾ Z - ⁽²⁾ 2 ⁽³⁾ M - ⁽⁴⁾ NR ⁽⁵⁾ 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) Operation Unit Type and Color

Code	Type and color	
NR	Opaque red	Non-lighted models only
NG	Opaque green	
NY	Opaque yellow	
NW	Opaque white	
NA	Opaque blue	
NB	Opaque black	Lighted models only
TR	Transparent red	
TG	Transparent green	
TY	Transparent yellow	
TW	Transparent white	
TA	Transparent blue	
TO	Transparent orange	

(5) Degree of Protection

Code	Protection
A	IP66

■ 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.

Ordering Information

Subassemblies

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

Operation Units

Non-lighted Switches

Bezel material and shape			Brushed metal
No. of positions	Reset method	Operation Unit color	Model
2	Manual	Opaque red	A30NZ-2MM-NRA
	Automatic reset on left		A30NZ-2ML-NRA
3	Manual		A30NZ-3MM-NRA
	Automatic reset on left		A30NZ-3ML-NRA
	Automatic reset on right		A30NZ-3MR-NRA
	Automatic reset on left and right		A30NZ-3MB-NRA
2	Manual	Opaque green	A30NZ-2MM-NGA
	Automatic reset on left		A30NZ-2ML-NGA
3	Manual		A30NZ-3MM-NGA
	Automatic reset on left		A30NZ-3ML-NGA
	Automatic reset on right		A30NZ-3MR-NGA
	Automatic reset on left and right		A30NZ-3MB-NGA
2	Manual	Opaque yellow	A30NZ-2MM-NYA
	Automatic reset on left		A30NZ-2ML-NYA
3	Manual		A30NZ-3MM-NYA
	Automatic reset on left		A30NZ-3ML-NYA
	Automatic reset on right		A30NZ-3MR-NYA
	Automatic reset on left and right		A30NZ-3MB-NYA
2	Manual	Opaque white	A30NZ-2MM-NWA
	Automatic reset on left		A30NZ-2ML-NWA
3	Manual		A30NZ-3MM-NWA
	Automatic reset on left		A30NZ-3ML-NWA
	Automatic reset on right		A30NZ-3MR-NWA
	Automatic reset on left and right		A30NZ-3MB-NWA
2	Manual	Opaque blue	A30NZ-2MM-NAA
	Automatic reset on left		A30NZ-2ML-NAA
3	Manual		A30NZ-3MM-NAA
	Automatic reset on left		A30NZ-3ML-NAA
	Automatic reset on right		A30NZ-3MR-NAA
	Automatic reset on left and right		A30NZ-3MB-NAA
2	Manual	Opaque black	A30NZ-2MM-NBA
	Automatic reset on left		A30NZ-2ML-NBA
3	Manual		A30NZ-3MM-NBA
	Automatic reset on left		A30NZ-3ML-NBA
	Automatic reset on right		A30NZ-3MR-NBA
	Automatic reset on left and right		A30NZ-3MB-NBA

Lighted Switches

Bezel material and shape			Brushed metal
No. of positions	Reset method	Operation Unit color	Model
2	Manual	Transparent red	A30NZ-2MM-TRA
	Automatic reset on left		A30NZ-2ML-TRA
3	Manual		A30NZ-3MM-TRA
	Automatic reset on left		A30NZ-3ML-TRA
	Automatic reset on right		A30NZ-3MR-TRA
	Automatic reset on left and right		A30NZ-3MB-TRA
2	Manual	Transparent green	A30NZ-2MM-TGA
	Automatic reset on left		A30NZ-2ML-TGA
3	Manual		A30NZ-3MM-TGA
	Automatic reset on left		A30NZ-3ML-TGA
	Automatic reset on right		A30NZ-3MR-TGA
	Automatic reset on left and right		A30NZ-3MB-TGA
2	Manual	Transparent yellow	A30NZ-2MM-TYA
	Automatic reset on left		A30NZ-2ML-TYA
3	Manual		A30NZ-3MM-TYA
	Automatic reset on left		A30NZ-3ML-TYA
	Automatic reset on right		A30NZ-3MR-TYA
	Automatic reset on left and right		A30NZ-3MB-TYA
2	Manual	Transparent white	A30NZ-2MM-TWA
	Automatic reset on left		A30NZ-2ML-TWA
3	Manual		A30NZ-3MM-TWA
	Automatic reset on left		A30NZ-3ML-TWA
	Automatic reset on right		A30NZ-3MR-TWA
	Automatic reset on left and right		A30NZ-3MB-TWA
2	Manual	Transparent blue	A30NZ-2MM-TAA
	Automatic reset on left		A30NZ-2ML-TAA
3	Manual		A30NZ-3MM-TAA
	Automatic reset on left		A30NZ-3ML-TAA
	Automatic reset on right		A30NZ-3MR-TAA
	Automatic reset on left and right		A30NZ-3MB-TAA
2	Manual	Transparent orange	A30NZ-2MM-TOA
	Automatic reset on left		A30NZ-2ML-TOA
3	Manual		A30NZ-3MM-TOA
	Automatic reset on left		A30NZ-3ML-TOA
	Automatic reset on right		A30NZ-3MR-TOA
	Automatic reset on left and right		A30NZ-3MB-TOA

■ 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, LED Lamps, Mounting Collars, and Contact Blocks individually. The same LED Lamps, Mounting Collars, and Contact Blocks are also used for the A22N Series.

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

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

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/s² 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	-25 to 55°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. 60 g (for 1NC/1NO)	Approx. 75 g (for 1NC/1NO)

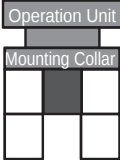
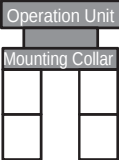
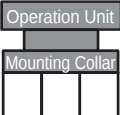
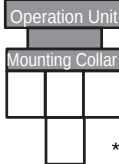
*1. With no icing or condensation.
*2. Degree of protection from the front of the panel.

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

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.

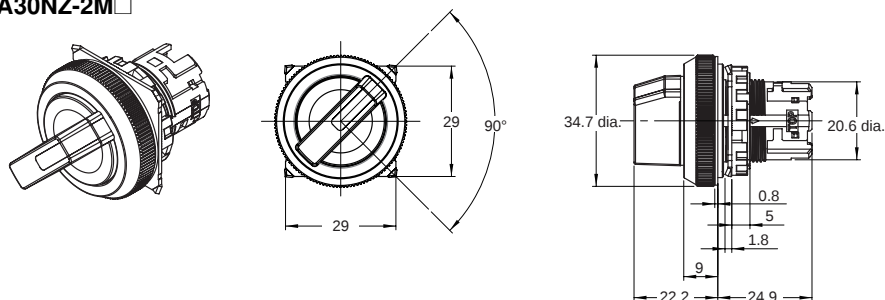
Dimensions

(Unit: mm)

Lighted and Non-lighted Selection Switches

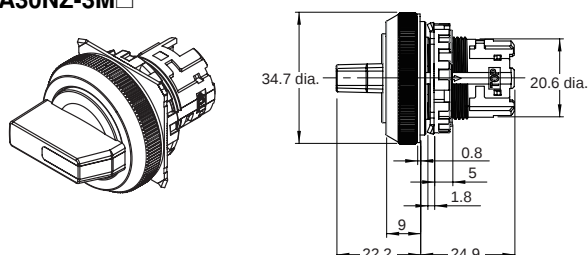
Two-position Switches with Brushed Metal Bezels

A30NZ-2M□

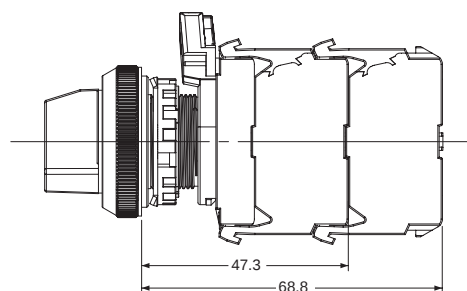


Three-position Switches with Brushed Metal Bezels

A30NZ-3M□



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.

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CSM_1_1_0415

Cat. No. A244-E1-01

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