

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 Contract 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

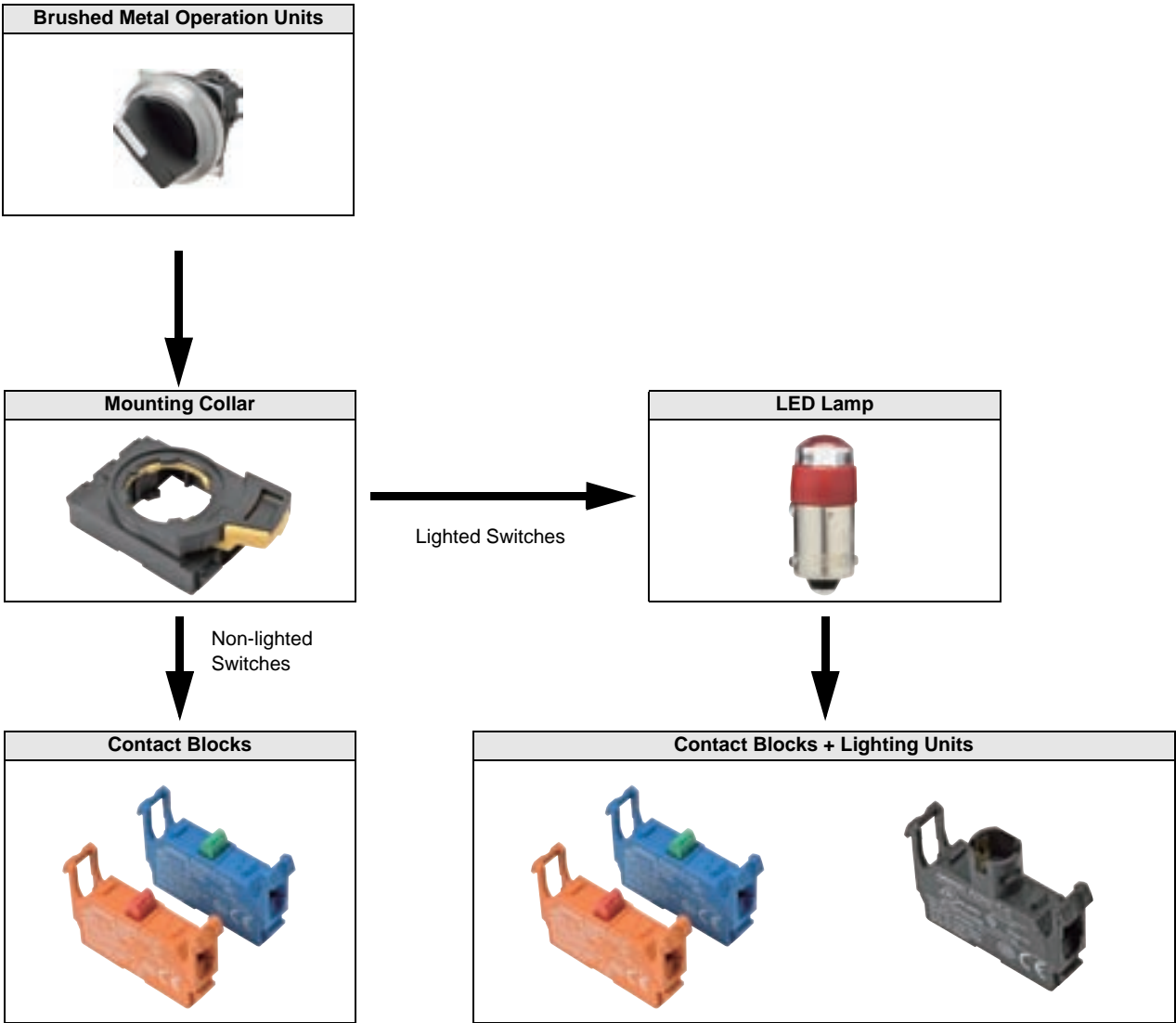
Operation Unit Colors

| | | | | | | | | | | |
|----------------------|------------------------------|--|---|---|---|--|---|---|---|---|
| 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 |

A30NZ-□M□-□□A

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) |


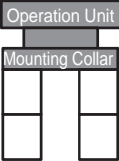

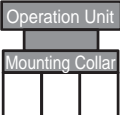
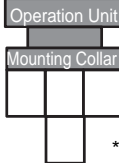
*1. With no icing or condensation.
*2. Degree of protection from the front of the panel.

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.

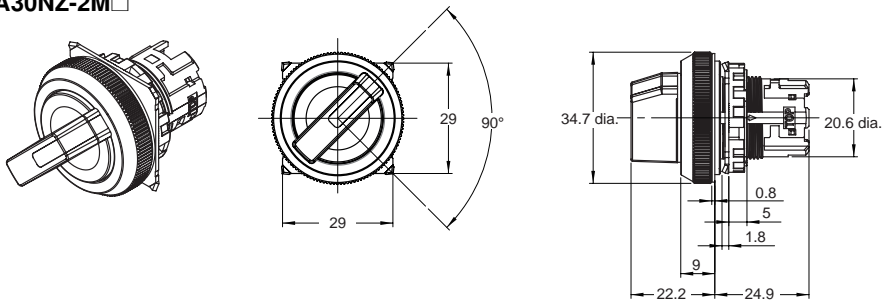
Dimensions

(Unit: mm)

Lighted and Non-lighted Selection Switches

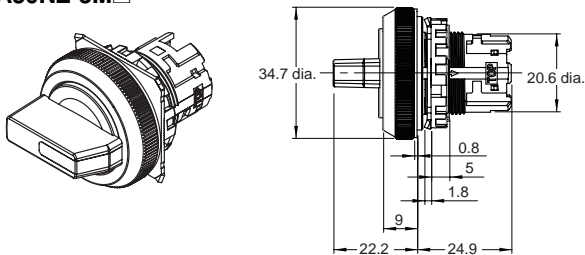
Two-position Switches with Brushed Metal Bezels

A30NZ-2M□

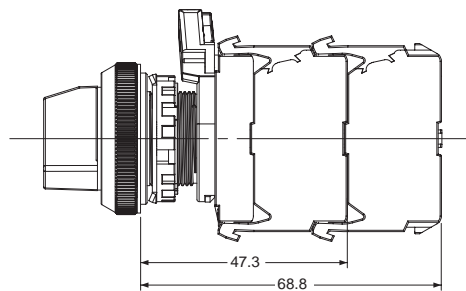


Three-position Switches with Brushed Metal Bezels

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.

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. There are 26 horizontal lines in total, creating 27 rows. The first row is above the "MEMO" header.

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