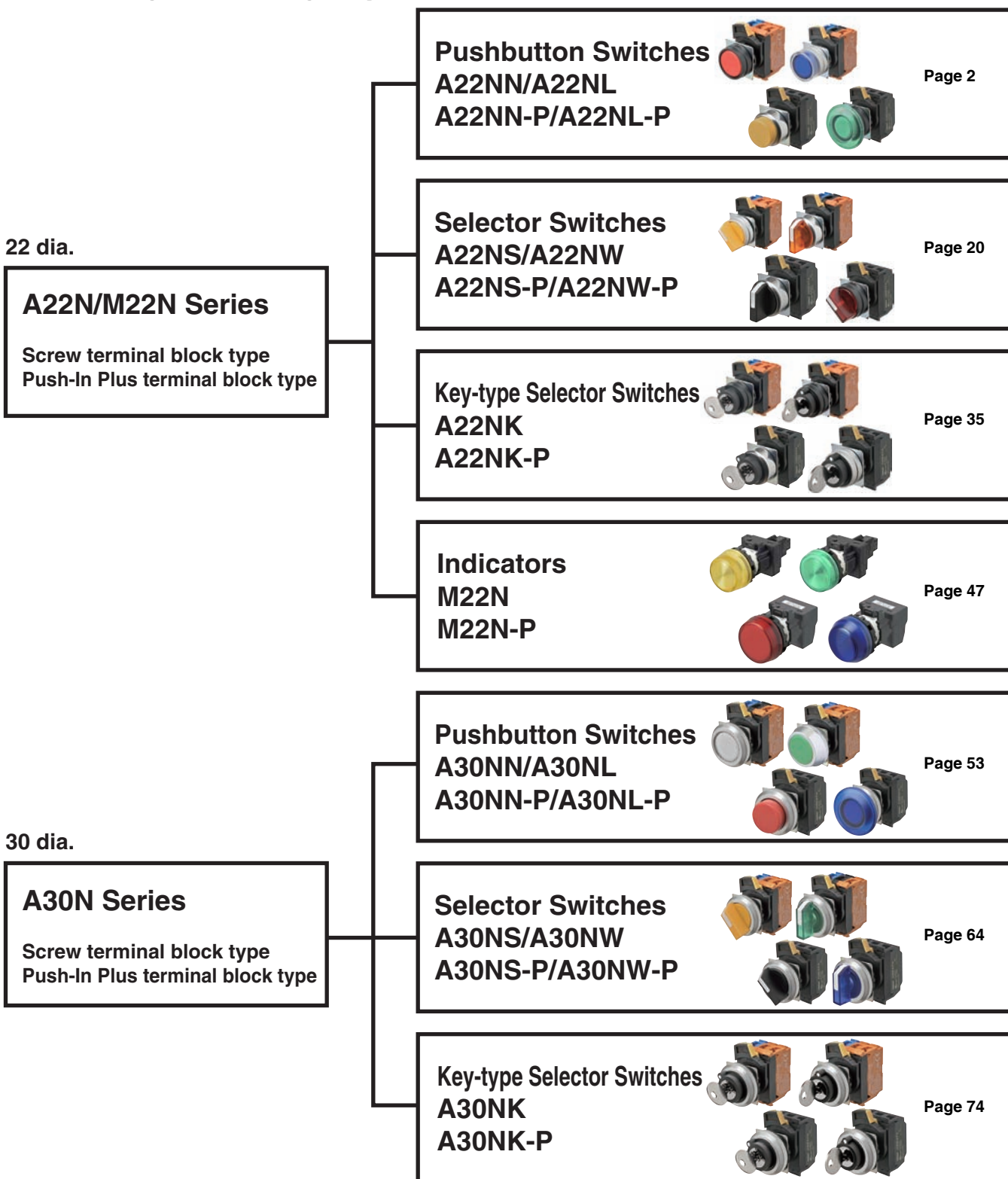


# Pushbutton Switches/Selector Switches/Indicators A22N/M22N/A30N

Control panel miniaturization through a more compact design and modified wiring direction  
Addition of Push-In Plus terminal blocks for easy wiring  
Workability and safety improvements



# Pushbutton Switches A22NN/A22NL

**22-mm dia. Pushbutton Switches**  
**Control panel miniaturization through a more compact design and modified wiring direction.**  
**Addition of Push-In Plus terminal blocks for easy wiring.**



### Easy to Use

- Improved wiring visibility through to a modified wiring direction. (Push-In Plus terminal block type)
- Screw terminal block structure is compatible with round crimp terminals. (Screw terminal block type)
- The terminals can be secured even when a contact block is mounted. (Screw terminal block type)
- Contact Blocks can be attached in any direction for easy assembly.

### Miniaturization

- No need for extra lateral space because of the modified wiring direction. (Push-In Plus terminal block type)
- Compact design.
- A22NL (lighted models) are the same size as A22NN (non-lighted models).

### Safety

- Easy-to-operate lock lever for secure locking.
- Easy-mounting Contact Blocks provide finger protection.
- No loose connections of wiring means maintenance-free use. (Push-In Plus terminal block type)

### Product Lineup

- Meet global safety standards.
- Can be installed in two types of panel hole dimensions: 22.3 and 25.5 dia.
- The buttons and bezels come in a wide variety of colors, shapes, and materials.
- Standard-feature degree of protection: IP66, NEMA 4X, and NEMA 13.

Refer to *Safety Precautions for All Pushbutton Switches/Indicators and Safety Precautions* on page 88.

## Button Colors

|                      |                             |              | Red | Green | Yellow | White | Blue | Black |  |
|----------------------|-----------------------------|--------------|-----|-------|--------|-------|------|-------|--|
| Non-lighted Switches | A22NN-□□□-N□<br>Opaque      |              |     |       |        |       |      |       |  |
|                      | A22NN-□□□-U□<br>Transparent |              |     |       |        |       |      |       |  |
| Lighted Switches     | A22NL-□□□-T□<br>Transparent | When not lit |     |       |        |       |      |       |  |
|                      |                             |              |     |       |        |       |      |       |  |
|                      |                             | When lit     |     |       |        |       |      |       |  |
|                      |                             |              |     |       |        |       |      |       |  |

\* The colors when the Switches are lit are for transparent white buttons (code: TW) and yellow LED Lamps (code: Y).

Pushbutton Switches  
A22N

Selector Switches  
A22N

Key-Type Selector Switches  
A22N

Indicators  
M22N

Pushbutton Switches  
A30N

Selector Switches  
A30N


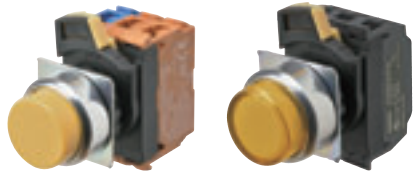
Key-Type Selector Switches  
A30N

Subassemblies (Common)

Accessories and Tools

Safety Precautions

# List of Models

| Screw Terminal Blocks/Push-In Plus Terminal Blocks   |   |   |
|--|---|---|
| Plastic bezels   | Brushed metal bezels  | Metal bezels  |
| A22N□-BN   | A22N□-MN  | A22N□-RN  |
| <p>Flat</p>         | <p>Flat</p>         | <p>Flat</p>        |
| A22N□-BP   | A22N□-MP  | A22N□-RP  |
| <p>Projected</p>    | <p>Projected</p>    | <p>Projected</p>   |
| A22N□-BG   | A22N□-MG  |   |
| <p>Full guard</p>  | <p>Full guard</p>  |   |
| A22N□-BM   | A22N□-MM  | A22N□-RM  |
| <p>Mushroom</p>   | <p>Mushroom</p>   | <p>Mushroom</p>  |

Pushbutton Switches  
**A22N**  
 Selector Switches  
**A22N**  
 Key-type Selector Switches  
**A22N**  
 Indicators  
**M22N**  
 Pushbutton Switches  
**A30N**  
 Selector Switches  
**A30N**  
 Key-type Selector Switches  
**A30N**  
 Subassemblies (Common)  
 Accessories and Tools  
 Safety Precautions

# A22NN/A22NL

## Model Number Structure

### Model Number Legend

----- Shipped as a set that includes the Operation Unit, LED Lamp (lighted models only), Mounting Collar, Contact Block, and Lighting Unit (lighted models only).  
For information on combinations, refer to *Ordering Information* on pages 5 to 8.

### Model Numbers for Sets

A 2 2 N <sup>(1)</sup> L - <sup>(2)</sup> B <sup>(3)</sup> N <sup>(4)</sup> M - <sup>(5)</sup> T <sup>(6)</sup> R <sup>(7)</sup> A - <sup>(8)</sup> G <sup>(9)</sup> 1 0 0 - <sup>(8)</sup> R <sup>(9)</sup> B

#### (1) Type

| Code | Description |
|------|-------------|
| N    | Non-lighted |
| L    | Lighted     |

#### (2) Bezel Material and Button Shape

| Code | Bezel material | Button shape |
|------|----------------|--------------|
| BN   | Plastic        | Flat         |
| BP   | Plastic        | Projected    |
| BG   | Plastic        | Full guard   |
| BM   | Plastic        | Mushroom     |
| MN   | Brushed metal  | Flat         |
| MP   | Brushed metal  | Projected    |
| MG   | Brushed metal  | Full guard   |
| MM   | Brushed metal  | Mushroom     |
| RN   | Metal          | Flat         |
| RP   | Metal          | Projected    |
| RM   | Metal          | Mushroom     |

#### (3) Switch Action

| Code | Description |
|------|-------------|
| M    | Momentary   |
| A    | Alternate   |

#### (4) Button Transparency and Color and (8) LED Lamp Color

| Lighted/non-lighted | Code (4) | Code (8) | Transparency | Button color | LED lamp color |
|---------------------|----------|----------|--------------|--------------|----------------|
| Non-lighted         | NR       | N        | Opaque       | Red          | ---            |
|                     | NG       | N        | Opaque       | Green        |                |
|                     | NY       | N        | Opaque       | Yellow       |                |
|                     | NW       | N        | Opaque       | White        |                |
|                     | NA       | N        | Opaque       | Blue         |                |
|                     | NB       | N        | Opaque       | Black        |                |
|                     | UR       | N        | Transparent  | Red          |                |
|                     | UG       | N        | Transparent  | Green        |                |
|                     | UY       | N        | Transparent  | Yellow       |                |
|                     | UW       | N        | Transparent  | White        |                |
|                     | UA       | N        | Transparent  | Blue         |                |
|                     | UO       | N        | Transparent  | Orange       |                |
| Lighted             | TR       | R        | Transparent  | Red          | Red            |
|                     | TG       | G        | Transparent  | Green        | Green          |
|                     | TY       | Y        | Transparent  | Yellow       | Yellow         |
|                     | TW       | W        | Transparent  | White        | White          |
|                     | TA       | A        | Transparent  | Blue         | Blue           |
|                     | TO       | O        | Transparent  | Orange       | Orange         |
|                     | TW       | Y        | Transparent  | White *      | Yellow         |

\* The color is opaque white when the Switch is lit.

#### (5) Degree of Protection

| Code | Description                         |
|------|-------------------------------------|
| A    | Conforming to IP66, NEMA 4X, NEMA13 |

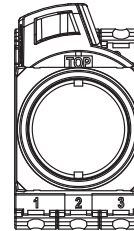
#### (6) Contacts and Terminals Specifications

| Code | Specification                       |
|------|-------------------------------------|
| G    | General/Screw terminal block        |
| P    | General/Push-In Plus Terminal Block |

#### (7) Contacts

| Code | Contact Blocks |    | Unit position |     |     |         |               |     |
|------|----------------|----|---------------|-----|-----|---------|---------------|-----|
|      | NO             | NC | Non-lighted   |     |     | Lighted |               |     |
|      |                |    | 1             | 2   | 3   | 1       | 2             | 3   |
| 100  | 1              | 0  | NO            | --- | --- | NO      | Lighting Unit | --- |
| 002  | 0              | 1  | ---           | --- | NC  | ---     | Lighting Unit | NC  |
| 101  | 2              | 0  | NO            | --- | NO  | NO      | Lighting Unit | NO  |
| 102  | 1              | 1  | NO            | --- | NC  | NO      | Lighting Unit | NC  |
| 202  | 0              | 2  | NC            | --- | NC  | NC      | Lighting Unit | NC  |
| 111  | 3              | 0  | NO            | NO  | NO  |         |               |     |
| 112  | 2              | 1  | NO            | NO  | NC  |         |               |     |
| 122  | 1              | 2  | NO            | NC  | NC  |         |               |     |
| 222  | 0              | 3  | NC            | NC  | NC  |         |               |     |

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



#### (9) LED Lamp Voltage

| Code | LED Lamp voltage    |
|------|---------------------|
| N    | Non-lighted         |
| A    | 6 VAC/DC            |
| B    | 12 VAC/DC           |
| C    | 24 VAC/DC           |
| D    | 100/110/120 VAC     |
| E    | 200/220/230/240 VAC |

■ Specifications: Refer to page 13. ■ Precautions for correct use: Refer to pages 88 to 99.  
■ Dimensions: Refer to pages 15 to 17. ■ Accessories and tools: Refer to pages 84 to 85.