## Key-type Selector Switches A22NK

## Key-type Selector Switches with 22-mm

## Diameters.

## Universal Design That Emphasizes Color Coding, Workability, and Safety

## Easy to Use

- You can connect up to three Switch Units in one stage for multistage expansion.
- Terminal screw hold-on structure that is compatible with round
 crimp terminals.
- The terminals can be retightened when Switch Units are stacked.
- Switch Units can be attached in any direction for easy assembly.


## Safety

- Easy-to-operate lock lever for reliable locking.
- Greater safety with a structure that provides finger protection.
- Different colors of Switch Units help prevent wiring errors.


## Product Lineup

- Global applicability with safety standards and different voltage specifications.
- Mount the Switches in 25-mm-dia. panel cutouts merely by reversing the mounting nut.
- Many Switch variations with different colors, shapes, and materials of buttons and bezels.


## A22NK

Structure

## Contact Configuration

## Two Notches

| No. of outputs | Code | Contact configuration | Switch position | Contacts | Notch position |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 1 | 2 |
| 1 | 100 | SPST-NO | (1) | NO |  | ON |
|  |  |  | (2) | --- | --- | --- |
|  |  |  | (3) | --- | --- | --- |
| 1 | 002 | SPST-NC | (1) | --- | --- | --- |
|  |  |  | (2) | --- | --- | --- |
|  |  |  | (3) | NC | ON |  |
| 2 | 102 | $\begin{aligned} & \text { SPST-NO } \\ & ++-N C \end{aligned}$ | (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 | $\begin{gathered} \text { SPST-NO } \\ + \\ \text { DPST-NC } \end{gathered}$ | (1) | NO |  | ON |
|  |  |  | (2) | NC | ON |  |
|  |  |  | (3) | NC | ON |  |
| 3 | 112 | $\begin{gathered} \text { DPST-NO } \\ + \\ \text { SPST-NC } \end{gathered}$ | (1) | NO |  | ON |
|  |  |  | (2) | NO |  | ON |
|  |  |  | (3) | NC | ON |  |

## Three Notches

| No. of outputs | Code | Contact configuration | Switch position | Contacts | Notch 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 | $\begin{gathered} \text { SPST-NO } \\ +\quad \\ \text { SPST-NC } \end{gathered}$ | (1) | NO | ON |  |  |
|  |  |  | (2) | NC |  | ON |  |
|  |  |  | (3) | --- | --- | --- | --- |


| No. of outputs | Code | Contact configuration | Switch position | Contacts | Notch position |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 1 | 0 | 2 |
| 2 | 102 | $\begin{aligned} & \text { SPST-NO } \\ & \text { SPST-NC } \end{aligned}$ | (1) | NO | ON |  |  |
|  |  |  | (2) | --- | --- | --- | --- |
|  |  |  | (3) | NC | ON | ON |  |
| 2 | 210 | $\begin{aligned} & \text { SPST-NO } \\ & \text { SPST-NC } \end{aligned}$ | (1) | NC |  | ON | ON |
|  |  |  | (2) | NO | ON |  | ON |
|  |  |  | (3) | --- | --- | --- | --- |
| 2 | 201 | $\begin{aligned} & \text { SPST-NO } \\ & \text { SPST-NC } \end{aligned}$ | (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 | NO | (1) | ON |  |  |
|  |  |  | NO | (2) | ON |  | ON |
|  |  |  | NO | (3) |  |  | ON |
| 3 | 222 | 3PST-NC | NC | (1) |  | ON | ON |
|  |  |  | NC | (2) |  | ON |  |
|  |  |  | NC | (3) | ON | ON |  |
| 3 | 122 | $\begin{aligned} & \text { SPST-NO } \\ & \text { DPST-NC } \end{aligned}$ | NO | (1) | ON |  |  |
|  |  |  | NC | (2) |  | ON |  |
|  |  |  | NC | (3) | ON | ON |  |
| 3 | 212 | SPST-NO DPST-NC | NC | (1) |  | ON | ON |
|  |  |  | NO | (2) | ON |  | ON |
|  |  |  | NC | (3) | ON | ON |  |
| 3 | 221 | SPST-NO DPST-NC | NC | (1) |  | ON | ON |
|  |  |  | NC | (2) |  | ON |  |
|  |  |  | NO | (3) | ON |  | ON |
| 3 | 211 | DPST-NO$\stackrel{+}{\text { SPST-NC }}$ | NC | (1) |  | ON | ON |
|  |  |  | NO | (2) | ON |  | ON |
|  |  |  | NO | (3) |  |  | ON |
| 3 | 121 | $\begin{aligned} & \text { DPST-NO } \\ & \text { SPST-NC } \end{aligned}$ | NO | (1) | ON |  |  |
|  |  |  | NC | (2) |  | ON |  |
|  |  |  | NO | (3) |  |  | ON |
| 3 | 112 | $\begin{aligned} & \text { DPST-NO } \\ & \text { SPST-NC } \end{aligned}$ | NO | (1) | ON |  |  |
|  |  |  | NO | (2) | ON |  | ON |
|  |  |  | NC | (3) | ON | ON |  |

## A22NK

## Model Number Structure

Model Number Legend $\qquad$ -Shipped as a set that includes the Operation Unit and Switch Unit. For information on combinations, refer to Ordering Information on pages 5 to 6 .

## Model Numbers for Sets

|  |  |  | (2) |  |  |  | 5) |  |  | (7) |  | (8) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | K | 2 B | M | 01 |  | A | A |  | G |  | 00 |

(1) Type

| Code | Type |
| :---: | :---: |
| K | Key-type Selector Switch |

(2) Number of Notches and Bezel Material

| Code | No. of <br> notches | Bezel material |
| :---: | :---: | :---: |
| $2 B$ | 2 | Plastic |
| 2M | 2 | Metal |
| $2 R$ | 2 | Rounded metal |
| 3B | 3 | Plastic |
| 3M | 3 | Metal |
| 3R | 3 | Rounded metal |

(3) Reset Method

| Code | Reset method |  |  |
| :---: | :---: | :---: | :---: |
| M | Manual | Twonotch manual |  |
|  |  | Threenotch manual |  |
| L | Automatic reset on left | Twonotch automatic | $4$ |
|  |  | Threenotch left automatic |  |
| R | Automatic reset on right | Threenotch right automatic |  |
| B | Reset from left or right | Threenotch left or right automatic |  |

(4) Key Number

| Code | No. |
| :---: | :---: |
| 01 | No. 1 |

(5) Key Release Position

| Code | Release position | Two notches | Three notches |
| :---: | :---: | :---: | :---: |
| A | All positions |  |  |
| B | Left |  |  |
| C | Right |  |  |
| D | Center | --- |  |
| E | Left and center | --- |  |
| F | Rightand center | --- |  |
| G | Left and right | --- |  |
| O: Release position <br> Locked position |  |  |  |
| (6) Degree of Protection |  |  |  |
| Code | Protection |  |  |
| A | IP66, NEMA 4X, NEMA13 |  |  |

(7) Contact Specification

| Code | Description |
| :---: | :---: |
| $G$ | General purpose |

(8) Contact Configuration

| Code | Switch Units |  | Unit position |  |  | Two Notches | Three Notches |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 |

Operation Angle


## Ordering Information

Model Numbers for Sets

-     -         -             - Shipped as a set that includes the Operation Unit and Switch Unit..
(Some items cannot be combined. Contact your OMRON sales representative for details.)
Two-notch, Key-type Selector Switches

| Appearance | Bezel type | No. of outputs | Model | (3) <br> Reset method | (5) Key release positions | (8)(8)(8) Contact configuration |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Plastic bezels | 2B | 1 | A22NK-2B(3)-01(5)A-G(8)(8)(8) | M: Manual <br> L: Automatic reset on left | A: All positions <br> B: Left <br> C: Right | $\begin{aligned} & 100 \\ & 002 \end{aligned}$ |
|  |  | 2 |  |  |  | $\begin{aligned} & 102 \\ & 101 \\ & 202 \end{aligned}$ |
|  |  | 3 |  |  |  | $\begin{aligned} & \hline 111 \\ & 222 \\ & 122 \\ & 112 \end{aligned}$ |
| Metal bezels | 2M | 1 | A22NK-2M(3)-01(5)A-G(8)(8)(8) |  |  | $\begin{aligned} & 100 \\ & 002 \end{aligned}$ |
|  |  | 2 |  |  |  | $\begin{aligned} & \hline 102 \\ & 101 \\ & 202 \\ & \hline \end{aligned}$ |
|  |  | 3 |  |  |  | $\begin{aligned} & 111 \\ & 222 \\ & 122 \\ & 112 \end{aligned}$ |
| Rounded metal bezels | 2R | 1 | A22NK-2R(3)-01(5)A-G(8)(8)(8) |  |  | $\begin{aligned} & 100 \\ & 002 \end{aligned}$ |
|  |  | 2 |  |  |  | $\begin{aligned} & 102 \\ & 101 \\ & 202 \\ & \hline \end{aligned}$ |
|  |  | 3 |  |  |  | $\begin{aligned} & \hline 111 \\ & 222 \\ & 122 \\ & 112 \end{aligned}$ |

## A22NK

## Three-notch, Key-type Selector Switches

| Appearance | Bezel type | No. of outputs | Model | (3) <br> Reset method | (5) <br> Key release positions | (8)(8)(8) Contact configuration |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Plastic bezels | 3B | 2 | A22NK-3B1(3)-01(5)A-G(8)(8)(8) | M: Manual <br> L: Automatic reset on left <br> R: Automatic reset on right <br> B: Automatic reset in center | A: All positions <br> B: Left <br> B: Left <br> D: Center <br> E: Left and center <br> F: Right and center <br> G: Left and right | $\begin{aligned} & \hline 110 \\ & 011 \\ & 101 \\ & 220 \\ & 022 \\ & 202 \\ & 120 \\ & 102 \\ & 210 \\ & 201 \\ & 012 \\ & 021 \\ & \hline \end{aligned}$ |
|  |  | 3 |  |  |  | $\begin{aligned} & \hline 111 \\ & 222 \\ & 122 \\ & 212 \\ & 221 \\ & 211 \\ & 121 \\ & 112 \end{aligned}$ |
| Metal bezels | 3M | 2 | A22NK-3M1(3)-01(5)A-G(8)(8)(8) |  |  | $\begin{aligned} & \hline 110 \\ & 011 \\ & 101 \\ & 220 \\ & 022 \\ & 202 \\ & 120 \\ & 102 \\ & 210 \\ & 201 \\ & 012 \\ & 021 \\ & \hline \end{aligned}$ |
|  |  | 3 |  |  |  | $\begin{aligned} & \hline 111 \\ & 222 \\ & 122 \\ & 212 \\ & 221 \\ & 211 \\ & 121 \\ & 112 \\ & \hline \end{aligned}$ |
| Rounded metal bezels | 3R | 2 | A22NK-3R1(3)-01(5)A-G(8)(8)(8) |  |  | $\begin{aligned} & \hline 110 \\ & 011 \\ & 101 \\ & 220 \\ & 022 \\ & 202 \\ & 120 \\ & 102 \\ & 210 \\ & 201 \\ & 012 \\ & 021 \\ & \hline \end{aligned}$ |
|  |  | 3 |  |  |  | $\begin{aligned} & 111 \\ & 222 \\ & 122 \\ & 212 \\ & 221 \\ & 211 \\ & 121 \\ & 112 \\ & \hline \end{aligned}$ |

## Ordering Information

Subassemblies
You can order Operation Units, Mounting Latches, and Switch Units individually. Use them in combination for models that are not available as assembled Switches. They can also be used as inventory for maintenance parts.

$\downarrow$

*Use a Reinforcement Plate for greater strength.

| Reinforcement Plate |
| :---: |
|  |

## A22NK

## Type

Subassemblies -.... You can order Operation Units, Mounting Latches, and Switch Units 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

| No. of notches | material andshape |  |  |  | (1) <br> Key release positions |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| 2 | Manual | A22NZ-2BM-01(1)A | A22NZ-2MM-01(1)A | A22NZ-2RM-01(1)A | A: All positions <br> B: Left <br> 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 <br> B: Left <br> C: Right <br> D: Center <br> E: Left and center <br> F: Right and center <br> 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 |  |
|  | Reset from left or right | A22NZ-3BB-01(1)A | A22NZ-3MB-01(1)A | A22NZ-3RB-01(1)A |  |

## Type

Subassemblies -- You can order Operation Units, Mounting Latches, and Switch Units 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 Latch

| Appearance | Model |
| :---: | :---: |
|  | A22NZ-H-0 |

## Switch Units

| Appearance | Contact <br> Specification | Model |
| :---: | :---: | :---: |
| 1 | SPST-NO | A22NZ-S-G1A |
|  | SPST-NC | A22NZ-S-G1Ça |

Reinforcement Plate

| Appearance | Model |
| :---: | :---: |
|  |  |
|  | A22NZ-C-01 |

## Accessories

| Appearance | Model |
| :--- | :---: | :---: |
| Key |  |

Lighted and Non-lighted Key-type Selection
Two-notch Switches with Plastic Bezels A22NK-2B $\square$

## Switches

Three-notch Switches with Plastic Bezels


Two-notch Switches with Metal Bezels A22NK-2M $\square$

Three-notch Switches with Metal Bezels A22NK-3M $\square$


Two-notch Switches with Rounded Metal Bezels A22NK-2R $\square$

Three-notch Switches with Rounded Metal Bezels A22NK-3R



## Terminal Wiring Diagrams

## Bottom View

| Non-lighted Switches (2NO/1NC) | Lighted Switches (1NO/1NC) |
| :---: | :---: |
|  |  |

## Terminal Connection Diagrams

| Non-lighted Switches <br> (2NO/1NC) | Lighted Switches (1NO/1NC) |
| :---: | :---: |
| Bottom View | Bottom View |
| (2) (3) |  |

## Precautions

Refer to Safety Precautions for All Pushbutton Switches/Indicators for common precautions.
Read the Safety Precautions in the A22N
datasheet.

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