## Key Locking Safety Switches

## ø22 HW Key Switch

## Key features:

- Key Selector Switches with Direct Opening Action Mechanism
- High-security Pin Tumbler Key
- The NC contact is opened by direct opening action mechanism $\Theta$. Mode selection enables easy construction of safety systems.
- The single key enables the hostage control of combining HW series key selector switch (pin tumbler type) and HS5E-K interlock key switch. High-security pin tumbler key is used. Sixteen types of key numbers are available.
- Selection of 2-position and 3-position, maintained, spring-return types and key retained variety is available.
- Degree of Protection: IP65 (IEC60529)

| Applicable Standards | Mark | File No. or Organization |
| :---: | :---: | :---: |
| UL508 | (14) | UL Listing File No. E68961 |
| CSA C22.2 No. 14 | (16) | CSA166730 (LR92374) |
| EN60947-5-1 | $\triangle$ | TÜV Rheinland R50054316 |
|  | $C \epsilon$ | Self-declaration Low Voltage Directive of Europe |



## Two-position Key Switch ( $90^{\circ}$ )

| Contact Code |  |  | Standard Logic |  |  | Inverse Logic |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Contact Block |  | Logic Table |  |  | Logic Table |  |  |
|  | Mounting Position | Contact | 1 | 2 |  | 1 | 2 |  |
| $\begin{aligned} & \text { 1NO } \\ & \text { (10) } \end{aligned}$ | (1) | NO |  | - | HW1K-2PA10 | - |  | HW1K-2JPA10 |
|  | (2) | - | Dummy Block |  |  | Dummy Block |  |  |
| $\begin{aligned} & \text { 1NC } \\ & \text { (01) } \end{aligned}$ | (1) | NC | - |  | HW1K-2PA01 |  | $\bullet$ | HW1K-2JPA01 |
|  | (2) | - | Dummy Block |  |  | Dummy Block |  |  |
| $\begin{aligned} & \text { 2NO } \\ & \text { (20) } \end{aligned}$ | (1) | NO |  | $\bullet$ | HW1K-2PA20 | - |  | HW1K-2JPA20 |
|  | (2) | NO |  | - |  | - |  |  |
| $\begin{aligned} & \text { 2NC } \\ & \text { (02) } \end{aligned}$ | (1) | NC | $\bullet$ |  | HW1K-2PA02 |  | $\bullet$ | HW1K-2JPA02 |
|  | (2) | NC | - |  |  |  | $\bullet$ |  |
| $\underset{(11)}{\text { 1NO-1NC }}$ | (1) | NO |  | $\bullet$ | HW1K-2PA11 | $\bullet$ |  | HW1K-2JPA11 |
|  | (2) | NC | - |  |  |  | $\bullet$ |  |
| $\underset{(22)}{2 \mathrm{NO}-2 \mathrm{NC}}$ | (1) | NO |  | - | HW1K-2PA22 | - |  | HW1K-2JPA22 |
|  | (2) | NC | - |  |  |  | $\bullet$ |  |
|  | (3) | NO |  | - |  | - |  |  |
|  | (4) | NC | - |  |  |  | - |  | Contact Block Mounting Position

For contact block mounting position, see the figure to the right of the table.
Each key selector switch is supplied with two keys.
Key number 500 is supplied as the default key in table above ( 500 not added to part number).
To order additional key types, specify key number at end of part number (special order). Example: HS5E-KVA003-2A501

$$
501 \text { to } 515
$$

Note: The key number is engraved on the cylinder

Three-position Key Switch (45 ${ }^{\circ}$ )


On the contact arrangement marked with in the table above, the rated current (load switching current) is reduced to a half of the rated current of the contact block. The rated insulation voltage and the rated thermal current remain unchanged.
For models with $\hat{\boldsymbol{\psi}}$, contacts may overlap when the operator position is changed.
For contact block mounting position, see the figure on the right.
Each key selector switch is supplied with two keys.
15 types of key numbers are available in addition to standard (500) key.
Key number 500 is supplied as the default key in table above ( 500 not added to part number).
To order additional key types, specify key number at end of part number (special order). Example: HS5E-KVA003-2A501

$$
501 \text { to } 515
$$

Note: The key number is engraved on the cylinder.

Dimensions (mm)


Anti-rotation Ring and Panel cut-out
Align the TOP marking on the operator and the TOP mark on the anti-rotation ring with the recess in the mounting panel.


Replacement Parts
Contact Block


To install the marking plate on a nameplate, see Fig. 1.
To remove the marking plate, insert a flat screwdriver between the marking plate and nameplate as shown in Fig. 2.
When using a nameplate, mounting panel thickness is decreased by 1.5 mm .
When an anti-rotation ring on the nameplate is not required, remove the projection using pliers as shown in Fig. 2.


## Operating Instructions

## Applicable Wiring

1. The applicable wire size is 14 AWG maximum (Solid wire 16 AWG max.). One or two wires can be connected.

Applicable Crimping Terminal
Crimping Terminal for
(A)


Crimping Terminal for (B)


Be sure to use an insulation tube or cover on the crimping part of the crimping terminal to prevent electrical shocks.

2. Tighten the M3.5 terminal screw to a recommended tightening torque of 1.0 to $1.3 \mathrm{~N} \cdot \mathrm{~m}$.

