

# Key Switches 3-Position (Assembled)



## 3-Position Key Switches

| Contact       | Mounting | Operator Position                                                                 |                                                                                   |                                                                                   | Maintained                                                                        | Spring Return from Right                                                          | Spring Return from Left                                                           | Spring Return Two Way                                                             |
|---------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|               |          |  |  |  |  |  |  |  |
| Operator Only |          |                                                                                   |                                                                                   |                                                                                   | HW⊙K-3A*                                                                          | HW⊙K-31B                                                                          | HW⊙K-32C                                                                          | HW⊙K-33D                                                                          |
| 1NO-1NC       | 1        | 0                                                                                 | X                                                                                 | X                                                                                 | HW⊙K-3AF11                                                                        | HW⊙K-31BF11                                                                       | HW⊙K-32CF11                                                                       | HW⊙K-33DF11                                                                       |
|               | 2        | 0                                                                                 | 0                                                                                 | X                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| 2NO           | 1        | X                                                                                 | 0                                                                                 | 0                                                                                 | HW⊙K-3AF20                                                                        | HW⊙K-31BF20                                                                       | HW⊙K-32CF20                                                                       | HW⊙K-33DF20                                                                       |
|               | 2        | 0                                                                                 | 0                                                                                 | X                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| 2NC           | 1        | 0                                                                                 | X                                                                                 | X                                                                                 | HW⊙K-3AF02                                                                        | HW⊙K-31BF02                                                                       | HW⊙K-32CF02                                                                       | HW⊙K-33DF02                                                                       |
|               | 2        | X                                                                                 | X                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| 2NO-1NC       | 1        | X                                                                                 | 0                                                                                 | 0                                                                                 | HW⊙K-3JAF21N1                                                                     | —                                                                                 | —                                                                                 | —                                                                                 |
|               | 2        | 0                                                                                 | 0                                                                                 | X                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|               | 3        | 0                                                                                 | X                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| 2NO-2NC       | 1        | X                                                                                 | 0                                                                                 | 0                                                                                 | HW⊙K-3AF22                                                                        | HW⊙K-31BF22                                                                       | HW⊙K-32CF22                                                                       | HW⊙K-33DF22                                                                       |
|               | 2        | 0                                                                                 | 0                                                                                 | X                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|               | 3        | 0                                                                                 | X                                                                                 | X                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|               | 4        | X                                                                                 | X                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| 2NO-2NC       | 1        | 0                                                                                 | 0                                                                                 | X                                                                                 | HW⊙K-3SAF22N9                                                                     | —                                                                                 | —                                                                                 | —                                                                                 |
|               | 2        | X                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|               | 3        | X                                                                                 | X                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|               | 4        | 0                                                                                 | 0                                                                                 | X                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| 4NO           | 1        | X                                                                                 | 0                                                                                 | 0                                                                                 | HW⊙K-3AF40                                                                        | HW⊙K-31BF40                                                                       | HW⊙K-32CF40                                                                       | HW⊙K-33DF40                                                                       |
|               | 2        | 0                                                                                 | 0                                                                                 | X                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|               | 3        | X                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|               | 4        | 0                                                                                 | 0                                                                                 | X                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| 4NO           | 1        | X                                                                                 | 0                                                                                 | 0                                                                                 | HW⊙K-3SAF40N2                                                                     | —                                                                                 | —                                                                                 | —                                                                                 |
|               | 2        | 0                                                                                 | X                                                                                 | X                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|               | 3        | X                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|               | 4        | 0                                                                                 | 0                                                                                 | X                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| 4NC           | 1        | 0                                                                                 | X                                                                                 | X                                                                                 | HW⊙K-3AF04                                                                        | HW⊙K-31BF04                                                                       | HW⊙K-32CF04                                                                       | HW⊙K-33DF04                                                                       |
|               | 2        | X                                                                                 | X                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|               | 3        | 0                                                                                 | X                                                                                 | X                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|               | 4        | X                                                                                 | X                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |

### ⑤ Bezel Type

| Type    | Code |
|---------|------|
| Plastic | 1    |
| Metal   | 4    |

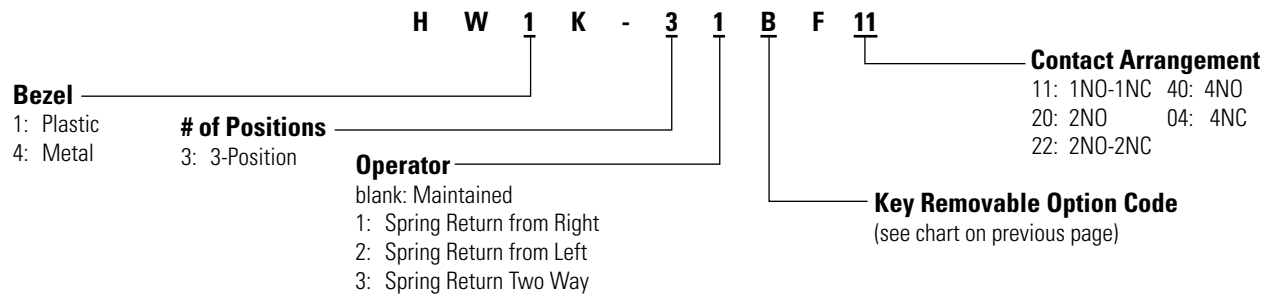


- In place of ⑤ enter 1 for plastic bezel or 4 for metal bezel.
- Key is removable in all maintained positions. Other key removable options available.
- Two keys are supplied with all switches.
- All standard operators are keyed alike.
- Other key removable options available. See table to the right.
- \* Operator is available with three different cams.  
HW⊙K-3A: Maintained (standard cam)  
HW⊙K-3SA: Maintained (Cam S)  
HW⊙K-3JA: Maintained (Cam J)
- For nameplates, see page 546.
- For contact assembly part numbers, see page 550.
- All assembled part numbers in catalog include standard fingersafe (HW-F...) contacts.
- Assembled units with spring-up terminals (HW-G...) can be ordered by removing an "F" from the part number (Ex. HW1B-M1F11-R becomes HW1B-M111-R).
- Units with exposed screw terminals (HW-C...) must be ordered as sub-components.
- Additional contact configurations available (up to 6 total contacts).
- For Truth Tables see page 558.

## Key Removable Option Codes

| Code | Description                                                   |
|------|---------------------------------------------------------------|
| A    | Key not retained in any position (removable in all positions) |
| B    | Key retained in right position only                           |
| C    | Key retained in left position only                            |
| D    | Key retained in left and right (3 position only)              |
| E    | Key retained in center only (3 position only)                 |
| G    | Key retained right and center (3 position only)               |
| H    | Key retained left and center (3 position only)                |

## Part Number Structure



## Key Switches 3-Position (Replacement Parts)

| Contact Assembly | + | Mounting Adaptor | + | Safety Lever Lock | + | Anti-Rotation Ring | + | Operator | = | Completed Unit |
|------------------|---|------------------|---|-------------------|---|--------------------|---|----------|---|----------------|
|                  |   |                  |   |                   |   |                    |   |          |   |                |

## Contact Blocks

| Style | Contacts                   | 1NO                  | 1NC                  |
|-------|----------------------------|----------------------|----------------------|
|       | Standard Fingersafe (IP20) | HW-F10               | HW-F01               |
|       |                            | HW-F10R (early make) | HW-F01R (late break) |
|       | Spring-Up Terminal         | HW-G10               | HW-G01               |
|       |                            | HW-G10R (early make) | HW-G01R (late break) |
|       | Exposed Screw Terminal     | HW-C10               | HW-C01               |
|       |                            | HW-C10R (early make) | HW-C01R (late break) |
|       | Dummy Block                | TW-DB                |                      |

## Contact Block Mounting Adaptor

| Style | Part Number |
|-------|-------------|
|       | HW-CB2C     |



- Used to mount contact blocks to operator (first pair only).
- IDEC strongly recommends using the safety lever lock to prevent heavy vibration or maintenance personnel from inadvertently unlocking contacts.

## Safety Lever Lock

| Style | Part Number |
|-------|-------------|
|       | HW9Z-LS     |

## Anti-Rotation Ring

| Appearance | Part Number |
|------------|-------------|
|            | HW9Z-RL     |



Use with notched panel cutout to prevent unit rotation.

## Operators

| Style | Description                             | Plastic Bezel | Metal Bezel |
|-------|-----------------------------------------|---------------|-------------|
|       | Maintained (standard cam)               | HW1K-3A       | HW4K-3A     |
|       | Maintained (S cam)                      | HW1K-3SA      | HW4K-3SA    |
|       | Maintained (J cam)                      | HW1K-3JA      | HW4K-3JA    |
|       | Spring Return from Right (standard cam) | HW1K-31B      | HW4K-31B    |
|       | Spring Return from Left (standard cam)  | HW1K-32C      | HW4K-32C    |
|       | 2-Way Spring Return (standard cam)      | HW1K-33D      | HW4K-33D    |



- Operator includes two keys.
- All standard operators are keyed alike.
- Other key removable options available. See table on previous page.