

## Selector Switches 2-Position (Assembled)



## 2-Position Selector Switches

| Contact       | Mounting | Operator Position                                                                 |                                                                                   | Handle        | Maintained               | Spring Return from Right   |
|---------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|--------------------------|----------------------------|
|               |          |  |  |               |                          |                            |
| Operator Only |          |                                                                                   |                                                                                   | Knob<br>Lever | HWⓈS-2T<br>HWⓈS-2L       | HWⓈS-21T<br>HWⓈS-21L       |
| 1NO           | 1        | 0                                                                                 | X                                                                                 | Knob<br>Lever | HWⓈS-2TF10<br>HWⓈS-2LF10 | HWⓈS-21TF10<br>HWⓈS-21LF10 |
| 1NO-1NC       | 1        | 0                                                                                 | X                                                                                 | Knob<br>Lever | HWⓈS-2TF11               | HWⓈS-21TF11                |
|               | 2        | X                                                                                 | 0                                                                                 |               | HWⓈS-2LF11               | HWⓈS-21LF11                |
| 2NO           | 1        | 0                                                                                 | X                                                                                 | Knob<br>Lever | HWⓈS-2TF20               | HWⓈS-21TF20                |
|               | 2        | 0                                                                                 | X                                                                                 |               | HWⓈS-2LF20               | HWⓈS-21LF20                |
| 2NO-2NC       | 1        | 0                                                                                 | X                                                                                 | Knob<br>Lever | HWⓈS-2TF22<br>HWⓈS-2LF22 | HWⓈS-21TF22<br>HWⓈS-21LF22 |
|               | 2        | X                                                                                 | 0                                                                                 |               |                          |                            |
|               | 3        | 0                                                                                 | X                                                                                 |               |                          |                            |
|               | 4        | X                                                                                 | 0                                                                                 |               |                          |                            |

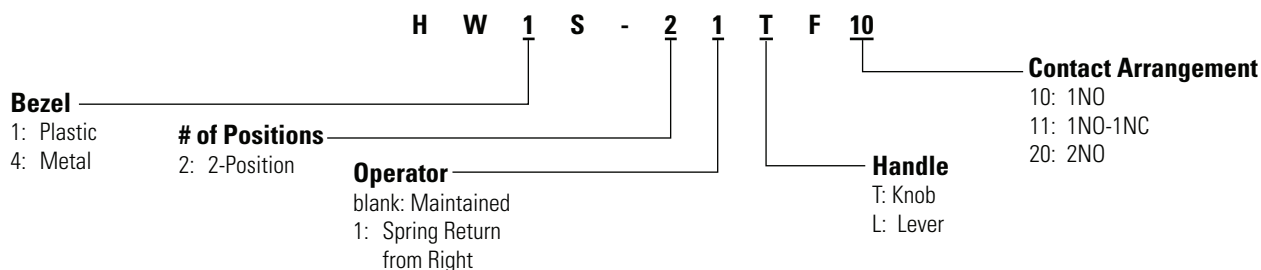


1. In place of Ⓢ enter 1 for plastic bezel or 4 for metal bezel.
2. For nameplates, see page 677.
3. All assembled part numbers in catalog include standard finger-safe spring-up (HW-U...) contacts.
4. Standard color for knob and lever is black.
5. Optional colors available for lever type. Must order in components. See next page for part numbers.
6. Additional contact configurations available (up to 6 total contacts).
7. For Truth Tables see page 690.

## Ⓢ Bezel Type

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

## Part Number Structure



Note: Use only for interpreting part numbers. Do not use for developing part numbers.

## Selector Switches 2-Position (Replacement Parts)

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



### Contact Blocks

| Style | Contacts           | 1NO                    | 1NC                    |
|-------|--------------------|------------------------|------------------------|
|       | Finger-Safe        | HW-U10-F               | HW-U01-F               |
|       | Spring-Up Terminal | HW-U10R-F (early make) | HW-U01R-F (late break) |
|       | Dummy Block        | HW-DB                  |                        |

### Anti-Rotation Ring

| Style | Part Number |
|-------|-------------|
|       | HW9Z-RL     |

Use with notched panel cutout to prevent unit rotation.

### Operators

| Style | Description              | Handle | Plastic Bezel | Metal Bezel |
|-------|--------------------------|--------|---------------|-------------|
|       | Maintained               | Knob   | HW1S-2T       | HW4S-2T     |
|       |                          | Lever  | HW1S-2        | HW4S-2      |
|       | Spring Return from Right | Knob   | HW1S-21T      | HW4S-21T    |
|       |                          | Lever  | HW1S-21       | HW4S-21     |

1. Knob operator comes with black handle.  
2. To order lever type, lever and inserts must be ordered separately, along with lever operator. See part numbers below.

### Contact Block Mounting Adaptor

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

1. Used to mount contact blocks to operator (first pair only).  
2. 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     |

### Levers & Inserts

| Style | Part Number                 |
|-------|-----------------------------|
|       | Lever ASWHL-①               |
|       | Lever Color Insert TW-HC1-① |

Standard lever color is black. Standard insert color is white.

### ① Handle/Insert Color Code

| Color  | Code |
|--------|------|
| Black* | B    |
| Blue   | S    |
| Green  | G    |
| Red    | R    |
| Yellow | Y    |
| White† | W    |

1. \* Lever color inserts not available in black.  
2. †Lever not available in white.

## Selector Switches 3-Position (Assembled)



## 3-Position Selector Switches

| Contact       | Mounting | Operator Position                                                                 |                                                                                   |                                                                                   | Handle        | Maintained                                                                                               | Spring Return<br>from Right                                                                               | Spring Return<br>from Left                                                                                 | Spring Return<br>Two-Way                                                                                    |
|---------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
|               |          |  |  |  |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
| Operator Only |          |                                                                                   |                                                                                   |                                                                                   | Knob<br>Lever | <br>HWⓈS-3T*<br>HWⓈS-3L | <br>HWⓈS-31T<br>HWⓈS-31L | <br>HWⓈS-32T<br>HWⓈS-32L | <br>HWⓈS-33T<br>HWⓈS-33L |
| 1NO-<br>1NC   | 1        | 0                                                                                 | X                                                                                 | X                                                                                 | Knob<br>Lever | HWⓈS-3TF11<br>HWⓈS-3LF11                                                                                 | HWⓈS-31TF11<br>HWⓈS-31LF11                                                                                | HWⓈS-32TF11<br>HWⓈS-32LF11                                                                                 | HWⓈS-33TF11<br>HWⓈS-33LF11                                                                                  |
|               | 2        | 0                                                                                 | 0                                                                                 | X                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
| 2NO           | 1        | X                                                                                 | 0                                                                                 | 0                                                                                 | Knob<br>Lever | HWⓈS-3TF20<br>HWⓈS-3LF20                                                                                 | HWⓈS-31TF20<br>HWⓈS-31LF20                                                                                | HWⓈS-32TF20<br>HWⓈS-32LF20                                                                                 | HWⓈS-33TF20<br>HWⓈS-33LF20                                                                                  |
|               | 2        | 0                                                                                 | 0                                                                                 | X                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
| 2NC           | 1        | 0                                                                                 | X                                                                                 | X                                                                                 | Knob<br>Lever | HWⓈS-3TF02<br>HWⓈS-3LF02                                                                                 | HWⓈS-31TF02<br>HWⓈS-31LF02                                                                                | HWⓈS-32TF02<br>HWⓈS-32LF02                                                                                 | HWⓈS-33TF02<br>HWⓈS-33LF02                                                                                  |
|               | 2        | X                                                                                 | X                                                                                 | 0                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
| 2NO-<br>1NC   | 1        | X                                                                                 | 0                                                                                 | 0                                                                                 | Knob          | HWⓈS-3JTF21N1                                                                                            | —                                                                                                         | —                                                                                                          | —                                                                                                           |
|               | 2        | 0                                                                                 | 0                                                                                 | X                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
|               | 3        | 0                                                                                 | X                                                                                 | 0                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
| 2NO-<br>2NC   | 1        | X                                                                                 | 0                                                                                 | 0                                                                                 | Knob          | HWⓈS-3TF22                                                                                               | HWⓈS-31TF22                                                                                               | HWⓈS-32TF22                                                                                                | HWⓈS-33TF22                                                                                                 |
|               | 2        | 0                                                                                 | 0                                                                                 | X                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
|               | 3        | 0                                                                                 | X                                                                                 | X                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
|               | 4        | X                                                                                 | X                                                                                 | 0                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
| 2NO-<br>2NC   | 1        | 0                                                                                 | 0                                                                                 | X                                                                                 | Knob          | HWⓈS-3STF22N9                                                                                            | —                                                                                                         | —                                                                                                          | —                                                                                                           |
|               | 2        | X                                                                                 | 0                                                                                 | 0                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
|               | 3        | X                                                                                 | X                                                                                 | 0                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
|               | 4        | 0                                                                                 | 0                                                                                 | X                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
| 4NO           | 1        | X                                                                                 | 0                                                                                 | 0                                                                                 | Knob          | HWⓈS-3TF40                                                                                               | HWⓈS-31TF40                                                                                               | HWⓈS-32TF40                                                                                                | HWⓈS-33TF40                                                                                                 |
|               | 2        | 0                                                                                 | 0                                                                                 | X                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
|               | 3        | X                                                                                 | 0                                                                                 | 0                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
|               | 4        | 0                                                                                 | 0                                                                                 | X                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
| 4NO           | 1        | X                                                                                 | 0                                                                                 | 0                                                                                 | Knob          | HWⓈS-3STF40N2                                                                                            | —                                                                                                         | —                                                                                                          | —                                                                                                           |
|               | 2        | 0                                                                                 | X                                                                                 | X                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
|               | 3        | X                                                                                 | 0                                                                                 | 0                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
|               | 4        | 0                                                                                 | 0                                                                                 | X                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
| 4NC           | 1        | 0                                                                                 | X                                                                                 | X                                                                                 | Knob          | HWⓈS-3TF04                                                                                               | HWⓈS-31TF04                                                                                               | HWⓈS-32TF04                                                                                                | HWⓈS-33TF04                                                                                                 |
|               | 2        | X                                                                                 | X                                                                                 | 0                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
|               | 3        | 0                                                                                 | X                                                                                 | X                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |
|               | 4        | X                                                                                 | X                                                                                 | 0                                                                                 |               |                                                                                                          |                                                                                                           |                                                                                                            |                                                                                                             |

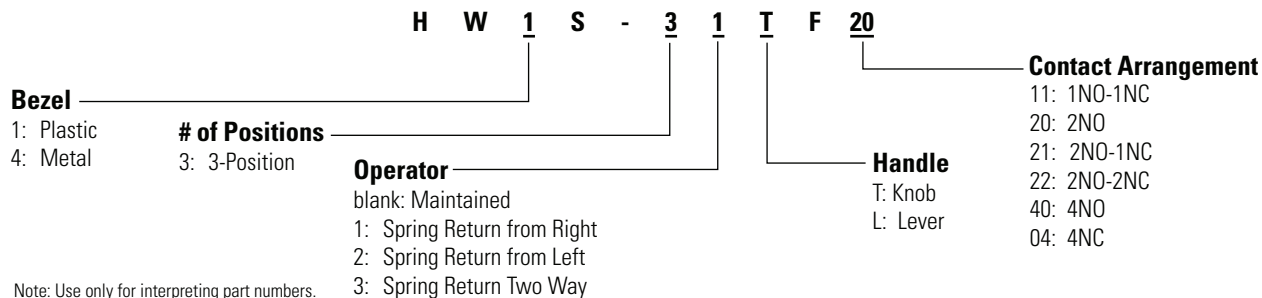
## ⊙ Bezel Type

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



- In place of ⊙ enter 1 for plastic bezel or 4 for metal bezel.
- Knob operator includes black knob/lever operator includes black lever.
- \* Three position operator is available with three different cams.  
HW⊙S-3T: Maintained (standard cam)  
HW⊙S-3ST: Maintained (S cam)  
HW⊙S-3JT: Maintained (J cam)
- Operator cams are color coded (white=standard cam, red=S cam, black=J cam).
- For nameplates, see page 677.
- For contact assembly part numbers, see page 682.
- All assembled part numbers in catalog include standard finger-safe spring-up (HW-U...) contacts.
- Standard color for knob and lever is black.
- Optional colors available for lever type. Must order in components. See next page for part numbers.
- Additional contact configurations available (up to 6 total contacts).
- For Truth Tables see page 690.

## Part Number Structure



## Selector Switches 3-Position (Replacement Parts)

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



### Contact Blocks

| Style | Contacts                       | 1NO                    | 1NC                    |
|-------|--------------------------------|------------------------|------------------------|
|       | Finger-Safe Spring-Up Terminal | HW-U10-F               | HW-U01-F               |
|       |                                | HW-U10R-F (early make) | HW-U01R-F (late break) |
|       | Dummy Block                    | HW-DB                  |                        |

### Contact Block Mounting Adaptor

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

- Used to mount contact blocks to operator (first pair only).
- IEC 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

| Style | Part Number |
|-------|-------------|
|       | HW9Z-RL     |

- Use with notched panel cutout to prevent unit rotation.

### Operators

| Style | Description                             | Handle | Plastic Bezel | Metal Bezel |
|-------|-----------------------------------------|--------|---------------|-------------|
|       | Maintained (standard cam)               | Knob   | HW1S-3T       | HW4S-3T     |
|       |                                         | Lever  | HW1S-3        | HW4S-3      |
|       | Maintained (S cam)                      | Knob   | HW1S-3ST      | HW4S-3ST    |
|       | Maintained (J cam)                      | Knob   | HW1S-3JT      | HW4S-3JT    |
|       | Spring Return from Right (standard cam) | Knob   | HW1S-31T      | HW4S-31T    |
|       |                                         | Lever  | HW1S-31       | HW4S-31     |
|       | Spring Return from Left (standard cam)  | Knob   | HW1S-32T      | HW4S-32T    |
|       |                                         | Lever  | HW1S-32       | HW4S-32     |
|       | 2-Way Spring Return (standard cam)      | Knob   | HW1S-33T      | HW4S-33T    |
|       |                                         | Lever  | HW1S-33       | HW4S-33     |

- Knob operator comes with black handle.
- Three position knob operator is available with three different cams.
- Operator cams are color coded (white=standard cam, red=S cam, black=J cam).
- To order lever type, lever and inserts must be ordered separately, along with lever operator. See part numbers below.

### Levers & Inserts

| Style | Part Number |
|-------|-------------|
|       | ASWHHL-①    |
|       | TW-HC1-①    |

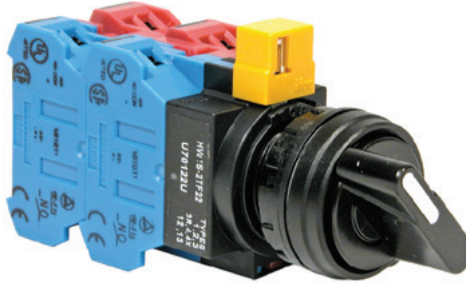
- Standard lever color is black. Standard insert color is white.

### ① Handle/Insert Color Code

| Color  | Code |
|--------|------|
| Black* | B    |
| Blue   | S    |
| Green  | G    |
| Red    | R    |
| Yellow | Y    |
| White† | W    |

- \* Lever color inserts not available in black.
- † Lever not available in white.

## Selector Switches 4- &amp; 5-Position (Assembled)



## 4-Position Selector Switches

| Contact       | Mounting | Operator Position |   |   |   | Handle        | Maintained                   |
|---------------|----------|-------------------|---|---|---|---------------|------------------------------|
|               |          | 1                 | 2 | 3 | 4 |               |                              |
|               |          |                   |   |   |   |               |                              |
| Operator Only |          |                   |   |   |   | Knob<br>Lever | HWⓈS-4T<br>HWⓈS-4L           |
| 1NO-<br>2NC   | 1        | X                 | 0 | 0 | 0 | Knob<br>Lever | HWⓈS-4TF12<br>HWⓈS-4LF12     |
|               | 2        | 0                 | X | 0 | 0 |               |                              |
|               | 3        | 0                 | 0 | X | 0 |               |                              |
|               | 4        | 0                 | 0 | 0 | 0 |               |                              |
| 1NO-<br>3NC   | 1        | 0                 | X | X | X | Knob<br>Lever | HWⓈS-4TF13N6<br>HWⓈS-4LF13N6 |
|               | 2        | 0                 | X | 0 | 0 |               |                              |
|               | 3        | 0                 | 0 | X | 0 |               |                              |
|               | 4        | 0                 | 0 | 0 | X |               |                              |
| 2NO-<br>2NC   | 1        | X                 | 0 | 0 | 0 | Knob<br>Lever | HWⓈS-4TF22N3<br>HWⓈS-4LF22N3 |
|               | 2        | 0                 | X | 0 | 0 |               |                              |
|               | 3        | 0                 | 0 | X | 0 |               |                              |
|               | 4        | 0                 | 0 | 0 | X |               |                              |

## 5-Position Selector Switch

| Contact       | Mounting | Operator Position |   |   |   |   | Handle        | Maintained                   |
|---------------|----------|-------------------|---|---|---|---|---------------|------------------------------|
|               |          | 1                 | 2 | 3 | 4 | 5 |               |                              |
|               |          |                   |   |   |   |   |               |                              |
| Operator Only |          |                   |   |   |   |   | Knob<br>Lever | HWⓈS-5T<br>HWⓈS-5L           |
| 2NO-<br>2NC   | 1        | X                 | 0 | 0 | 0 | 0 | Knob<br>Lever | HWⓈS-5TF22N3<br>HWⓈS-5LF22N3 |
|               | 2        | 0                 | X | 0 | 0 | 0 |               |                              |
|               | 3        | 0                 | 0 | 0 | X | 0 |               |                              |
|               | 4        | 0                 | 0 | 0 | 0 | X |               |                              |

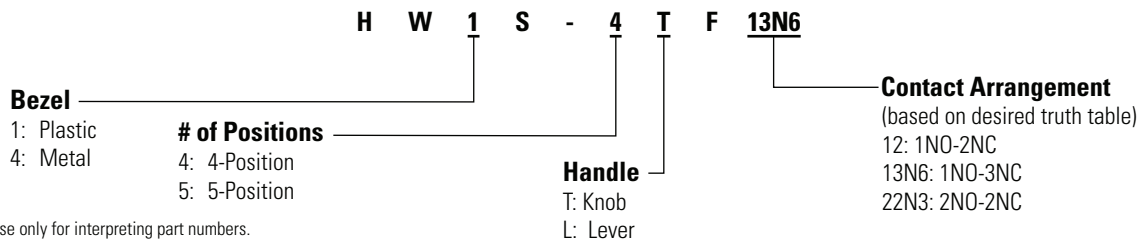


1. In place of Ⓢ enter 1 for plastic bezel or 4 for metal bezel.
2. Knob operator includes black knob/lever operator includes black lever.
3. For nameplates, see page 677.
4. For contact assembly part numbers, see page 682.
5. Five position circuit cannot be made to make five independent contact closures.
6. All assembled part numbers in catalog include standard finger-safe spring-up (HW-U...) contacts.
7. Standard color for knob and lever is black.
8. Optional colors available for lever type. Must order in components. See next page for part numbers.
9. Additional contact configurations available (up to 6 total contacts).
10. For Truth Tables see page 690.

## ⑤ Bezel Type

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

### Part Number Structure



### Selector Switches 4- & 5-Position (Replacement Parts)

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



#### Contact Blocks

| Style | Contacts           | 1NO                    | 1NC                    |
|-------|--------------------|------------------------|------------------------|
|       | Finger-Safe        | HW-U10-F               | HW-U01-F               |
|       | Spring-Up Terminal | HW-U10R-F (early make) | HW-U01R-F (late break) |
|       | Dummy Block        | HW-DB                  |                        |

#### Anti-Rotation Ring

| Style | Part Number |
|-------|-------------|
|       | HW9Z-RL     |

Use with notched panel cutout to prevent unit rotation.

#### Operators

| Style | Position | Description | Handle | Plastic Bezel | Metal Bezel |
|-------|----------|-------------|--------|---------------|-------------|
|       | 4        | Maintained  | Knob   | HW1S-4T       | HW4S-4T     |
|       |          |             | Lever  | HW1S-4        | HW4S-4      |
|       | 5        | Maintained  | Knob   | HW1S-5T       | HW4S-5T     |
|       |          |             | Lever  | HW1S-5        | HW4S-5      |

- Knob operator comes with black handle.
- To order lever type, lever and inserts must be ordered separately, along with lever operator. See part numbers below.

#### 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     |

#### Levers & Inserts

| Style | Part Number |
|-------|-------------|
|       | ASWHHL-①    |
|       | TW-HC1-①    |

Standard lever color is black. Standard insert color is white.

#### ① Handle/Insert Color Code

| Color  | Code |
|--------|------|
| Black* | B    |
| Blue   | S    |
| Green  | G    |
| Red    | R    |
| Yellow | Y    |
| White† | W    |

- \* Lever color inserts not available in black.
- †Lever not available in white.