

## Non-Illuminated Mushroom Head Pushbuttons (Assembled)



| Function   | Contacts             | ø29mm Mushroom Head |              | ø40mm Mushroom Head |              |
|------------|----------------------|---------------------|--------------|---------------------|--------------|
|            |                      | Plastic Bezel       | Metal Bezel  | Plastic Bezel       | Metal Bezel  |
| Momentary  | <i>Operator Only</i> | HW1B-M3-①           | HW4B-M3-①    | HW1B-M4-①           | HW4B-M4-①    |
|            | 1NO                  | HW1B-M3F10-①        | HW4B-M3F10-① | HW1B-M4F10-①        | HW4B-M4F10-① |
|            | 1NC                  | HW1B-M3F01-①        | HW4B-M3F01-① | HW1B-M4F01-①        | HW4B-M4F01-① |
|            | 1NO-1NC              | HW1B-M3F11-①        | HW4B-M3F11-① | HW1B-M4F11-①        | HW4B-M4F11-① |
|            | 2NO                  | HW1B-M3F20-①        | HW4B-M3F20-① | HW1B-M4F20-①        | HW4B-M4F20-① |
|            | 2NC                  | HW1B-M3F02-①        | HW4B-M3F02-① | HW1B-M4F02-①        | HW4B-M4F02-① |
|            | 2NO-2NC              | HW1B-M3F22-①        | HW4B-M3F22-① | HW1B-M4F22-①        | HW4B-M4F22-① |
| Maintained | <i>Operator Only</i> | HW1B-A3-①           | HW4B-A3-①    | HW1B-A4-①           | HW4B-A4-①    |
|            | 1NO                  | HW1B-A3F10-①        | HW4B-A3F10-① | HW1B-A4F10-①        | HW4B-A4F10-① |
|            | 1NC                  | HW1B-A3F01-①        | HW4B-A3F01-① | HW1B-A4F01-①        | HW4B-A4F01-① |
|            | 1NO-1NC              | HW1B-A3F11-①        | HW4B-A3F11-① | HW1B-A4F11-①        | HW4B-A4F11-① |
|            | 2NO                  | HW1B-A3F20-①        | HW4B-A3F20-① | HW1B-A4F20-①        | HW4B-A4F20-① |
|            | 2NC                  | HW1B-A3F02-①        | HW4B-A3F02-① | HW1B-A4F02-①        | HW4B-A4F02-① |
|            | 2NO-2NC              | HW1B-A3F22-①        | HW4B-A3F22-① | HW1B-A4F22-①        | HW4B-A4F22-① |



## ① Button Color Code

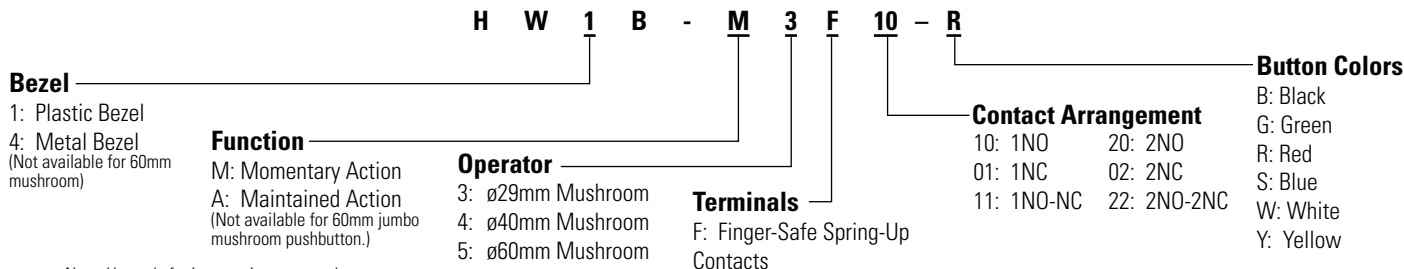
| Color  | Code |
|--------|------|
| Black  | B    |
| Green  | G    |
| Red    | R    |
| Blue   | S    |
| White  | W    |
| Yellow | Y    |



1. In place of ①, specify the Button Color Code from table.
2. \*60mm mushroom available only in red, green, black, and yellow.
3. For nameplates and accessories, see page 677 and 680.
4. For dimensions, see page 682.
5. For contact assembly part numbers, see page 682.
6. All assembled part numbers in catalog include standard spring-up Finger-Safe (HW-U...) contacts.
7. Operator only models include operator plus button.
8. Additional contact configurations available (up to 6 total contacts).

| Function  | Contacts             | ø60mm Mushroom Head |
|-----------|----------------------|---------------------|
|           |                      | Plastic Bezel       |
| Momentary | <i>Operator Only</i> | HW1B-M5-① *         |
|           | 1NO                  | HW1B-M5F10-① *      |
|           | 1NC                  | HW1B-M5F01-① *      |
|           | 1NO-1NC              | HW1B-M5F11-① *      |
|           | 2NO                  | HW1B-M5F20-① *      |
|           | 2NC                  | HW1B-M5F02-① *      |
|           | 2NO-2NC              | HW1B-M5F22-① *      |

### Part Number Structure

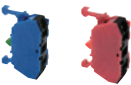


Note: Use only for interpreting part numbers.  
Do not use for developing part numbers.

### Non-Illuminated Mushroom Head Pushbuttons (Replacement Parts)



#### 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.
- IEEC 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     |

#### Operators

| Style                            |            | Plastic Bezel | Metal Bezel |
|----------------------------------|------------|---------------|-------------|
| ø29mm Mushroom<br>ø40mm Mushroom | Momentary  | HW1B-M0L      | HW4B-M0L    |
|                                  | Maintained | HW1B-A0L      | HW4B-A0L    |
| Ø60mm Jumbo Mushroom             | Momentary  | HW1B-M5-①*    | —           |

- \*60mm mushroom operator includes non-removable button (available in red, black, green and yellow only).
- For nameplates and accessories, see page 677 and 680.
- For dimensions, see page 682.

#### Buttons

| Style                                                                                 | Part Number |
|---------------------------------------------------------------------------------------|-------------|
| ø29mm Mushroom Cap                                                                    | HW1A-B3-①   |
|   |             |
| ø40mm Mushroom Cap                                                                    | HW1A-B4-①   |
|  |             |

- In place of ①, specify the Button Color Code from table.

#### ① Button Color Code

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

- HW1B-M5 available only in black, red, green and yellow.