



Think Automation and beyond...

ø22 mm

## CW Series Flush Silhouette Switches

Double  
Contact  
Block

Double contact block

4-contact configurations available

Safety

Two-action removal

IDEC's third-generation safety construction reduces labor and enhances level of safety.

Double contact block



Single contact block



Shortest  
in its class

2.5 mm-thick bezel

Sleek  
design

IDEC CORPORATION

## Ø22 mm CW Series Flush Silhouette Switches



**Double  
Contact  
Block**

**New double contact blocks with four-contact configurations.**  
(Illuminated pushbuttons, pushbuttons, selector switches, key selector switches)

Double  
contact blocks



Single  
contact blocks



**Shortest  
in its class**  
(as of March 2013)

**Short depth behind the panel for compact equipment.**

**Double: 59.9 mm (maintained: 64.6 mm)**

**Single: 39.9 mm (maintained: 44.6 mm)**

Switching capacity is 120V AC, 10A (resistive load). The compact style requires less depth behind the panel.  
Can be used with IDEC's FB and other 22 mm control boxes. No transformer needed for any voltage.

Double  
contact block



(Actual size)

59.9 mm

Single  
contact block



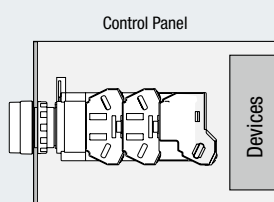
(Actual size)

39.9 mm

**Fits in  
small  
space**

*Four-contact  
illuminated pushbutton*

Conventional



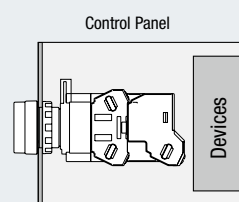
**40% less space  
50% less weight**

CW series  
double contact block



*Two-contact  
illuminated pushbutton*

Conventional



**50% less space  
59% less weight**

CW series  
single contact block



# sophistication



## Sleek and stylish switches and pilot lights with a 2.5 mm-thick bezel

The CW series gives a sleek, stylish image to your machines or control panels. The surface is safer with less chance of unexpected operation or accidents by hitting the projections, and also is cleaner with less dust build-up.



**Safety**

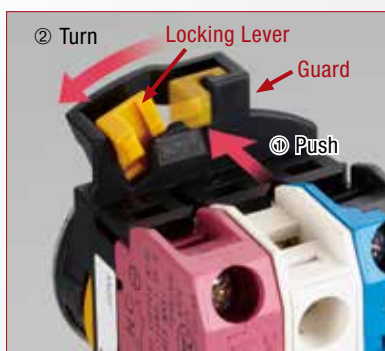
## Third-generation safety construction

### Two-action removal of contact blocks

IDEC's original two-action push-turn locking lever provides a higher level of safety by preventing unexpected release of the locking lever. Whether the contact block is installed securely can be checked easily from the back of the panel, with the position of the locking lever.

### Locking lever integrated with guard

Prevents locking lever from unexpected release or damage by trapped wires.



Removing contact blocks

### IP20 Finger-safe Terminal

Finger-safe, IP20 terminal prevents electrical shock.



## Variety



**Illuminated Pushbuttons**  
(round flush or extended)



See page 8.



**Pilot lights**  
(round flush or extended)



See page 10.



**Pushbuttons**  
(round flush or extended)



See page 11.



**Selector Switches**  
(knob or lever)  
2- and 3-position



Low extension with flush silhouette.  
See page 12.

Lever



**Key Selector Switches**  
Wave key  
7 different key numbers



See page 14.



Hard to duplicate, wave-key ensures a high level of safety.

## Colors

### Illuminated Pushbuttons/Pilot Lights



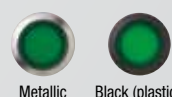
Amber (A) Blue (S) Green (G) Red (R) Pure White (PW) Yellow (Y)

### Pushbuttons



Black Blue Green Red White Yellow

### Bezels



Metallic Black (plastic)



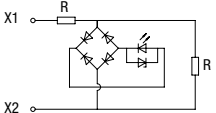
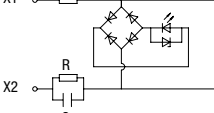
## Weight (Examples)

|                        |                                                                  |
|------------------------|------------------------------------------------------------------|
| Illuminated Pushbutton | 46g (CW1L-M1E02QH, 2 contacts)<br>62g (CW1L-M1E22QH, 4 contacts) |
| Pilot Light            | 27g (CW1P-1EQH)                                                  |
| Pushbutton             | 45g (CW1B-M1E03, 3 contacts)<br>52g (CW1B-M1E22, 4 contacts)     |
| Selector Switch        | 48g (CW1S-2E03, 3 contacts)<br>55g (CW1S-2E22, 4 contacts)       |
| Key Selector Switch    | 61g (CW1K-2AE03, 3 contacts)<br>68g (CW1K-2AE22, 4 contacts)     |

## Direct Opening of Key Selector Switch

| Applicable Type                                   | 2-position (3NC) | 3-position (2NC) |
|---------------------------------------------------|------------------|------------------|
| Minimum Operator Angle for Direct Opening Action  | 90°              | 45°              |
| Minimum Operator Torque for Direct Opening Action | 0.2 N·m          | 0.3 N·m          |
| Maximum Operator Angle                            | 90°              | 45°              |

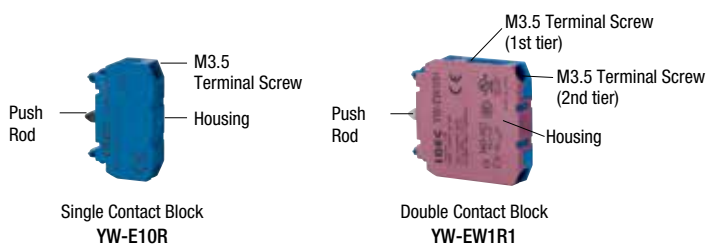
## LED Module

|                               |                                                                                                                                                                                                               |                |                |                                                                                                                                                                                                                                   |                                     |                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
| Rated Insulation Voltage (Ui) | 250V                                                                                                                                                                                                          |                |                |                                                                                                                                                                                                                                   |                                     |                                     |
| Rated Operating Voltage (Ue)  | 6V AC/DC                                                                                                                                                                                                      | 12V AC/DC      | 24V AC/DC      | 100/120V AC<br>(50/60 Hz sine wave)                                                                                                                                                                                               | 200/220V AC<br>(50/60 Hz sine wave) | 230/240V AC<br>(50/60 Hz sine wave) |
| Operating Voltage Range       | 6V AC/DC ±10%                                                                                                                                                                                                 | 12V AC/DC ±10% | 24V AC/DC ±10% | 100/120V AC ±10%                                                                                                                                                                                                                  | 200/220V AC ±10%                    | 230/240V AC ±10%                    |
| Illumination Color Code ②     | A (amber), G (green), PW (pure white), R (red), S (blue)                                                                                                                                                      |                |                |                                                                                                                                                                                                                                   |                                     |                                     |
| LED Module Part No.           | CW-EAQ2②                                                                                                                                                                                                      | CW-EAQ3②       | CW-EAQ4②       | CW-EAQH②                                                                                                                                                                                                                          | CW-EAQM②                            | CW-EAQM4②                           |
| Current Draw                  | 15 mA                                                                                                                                                                                                         | 15 mA          | 16.5 mA        | 18 mA                                                                                                                                                                                                                             | 20 mA                               | 18 mA                               |
| Life (reference value)        | Approx. 30,000 hours<br>(the illuminance is reduced to 50% of the initial intensity when used on complete DC at 25°C.)                                                                                        |                |                |                                                                                                                                                                                                                                   |                                     |                                     |
| Internal Circuit              |  <ul style="list-style-type: none"> <li>LED Chip</li> <li>Rectifying Diode</li> <li>Zener Diode</li> <li>Resistor</li> </ul> |                |                |  <ul style="list-style-type: none"> <li>LED Chip</li> <li>Rectifying Diode</li> <li>Zener Diode</li> <li>Resistor</li> <li>Capacitor</li> </ul> |                                     |                                     |

- Specify an illumination color code in place of ② in the Part No.
- Use the pure white (PW) LED module for yellow illumination.

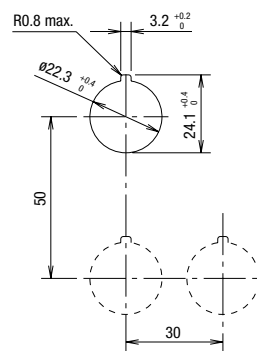
## Contact Blocks

|                  | Single Contact Block                                                                |                                                                                     | Double Contact Block                                                                |                                                                                       |                                                                                       |
|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Contact          | 1NO                                                                                 | 1NC                                                                                 | 2NO                                                                                 | 2NC                                                                                   | 1NO-1NC                                                                               |
| Part No.         | YW-E10R                                                                             | YW-E01                                                                              | YW-EW2R0                                                                            | YW-EW02                                                                               | YW-EW1R1                                                                              |
| Shape            |  |  |  |  |  |
| Housing Color    | Blue/Black                                                                          | Reddish Purple                                                                      | Blue/Black                                                                          | Reddish Purple                                                                        | Reddish Purple/Blue                                                                   |
| Push Rod Color   | Black                                                                               | Red                                                                                 | Black                                                                               | Red                                                                                   | Gray                                                                                  |
| Terminal No.     | 3-4                                                                                 | 1-2                                                                                 | 1st tier: 13-14<br>2nd tier: 23-24                                                  | 1st tier: 11-12<br>2nd tier: 21-22                                                    | 1st tier: (NO) 13-14<br>2nd tier: (NC) 21-22                                          |
| Weight (approx.) | 11g                                                                                 |                                                                                     | 19g                                                                                 |                                                                                       |                                                                                       |



## Mounting Hole Layout

IEC 60947-5-1 compliant



Note: Determine mounting centers to ensure easy operation.

## ø22 Flush Silhouette Switches CW Series

### Part No. Development

#### Illuminated Pushbuttons

Note: Please use these charts to interpret the part numbers as all combinations are not possible to be created.

**C W 1 L - M 1 E 10 Q4 ②**

| Code | Bezel Color |
|------|-------------|
| 1    | Black       |
| 4    | Metallic    |

| Code | Operation  |
|------|------------|
| M    | Momentary  |
| A    | Maintained |

| Code | Shape          |
|------|----------------|
| 1    | Round Flush    |
| 2    | Round Extended |

| Code | Option                              | Part No. Example |
|------|-------------------------------------|------------------|
| W    | White lens type (when light is off) | CW1L-M1E10Q4W②   |

- For white lens, clear lens is used instead of colored lens for amber, green, red, and blue illuminated pushbuttons. Amber, green, red, or blue LED units are used.

#### Illumination Color

| Code | Color      | Code | Color  |
|------|------------|------|--------|
| A    | Amber      | R    | Red    |
| G    | Green      | S    | Blue   |
| PW   | Pure White | Y    | Yellow |

#### Rated Voltage

| Code | Rated Voltage | Code | Rated Voltage |
|------|---------------|------|---------------|
| Q2   | 6V AC/DC      | QH   | 100/120V AC   |
| Q3   | 12V AC/DC     | QM   | 200/220V AC   |
| Q4   | 24V AC/DC     | QM4  | 230/240V AC   |

#### Contact Configuration

| Code | Contact Configuration | Code | Contact Configuration |
|------|-----------------------|------|-----------------------|
| 10   | 1NO                   | 20   | 2NO                   |
| 01   | 1NC                   | 02   | 2NC                   |
| 11   | 1NO-1NC               | 22   | 2NO-2NC               |

#### Pilot Lights

**C W 1 P - 1 E Q4 ②**

| Code | Bezel Color |
|------|-------------|
| 1    | Black       |
| 4    | Metallic    |

| Code | Shape          |
|------|----------------|
| 1    | Round Flush    |
| 2    | Round Extended |

| Code | Option                              | Part No. Example |
|------|-------------------------------------|------------------|
| W    | White lens type (when light is off) | CW1P-1EQ4W②      |

- For white lens, clear lens is used instead of colored lens for amber, green, red, and blue illuminated pushbuttons. Amber, green, red, or blue LED units are used.

#### Illumination Color

| Code | Color      | Code | Color  |
|------|------------|------|--------|
| A    | Amber      | R    | Red    |
| G    | Green      | S    | Blue   |
| PW   | Pure White | Y    | Yellow |

#### Rated Voltage

| Code | Rated Voltage | Code | Rated Voltage |
|------|---------------|------|---------------|
| Q2   | 6V AC/DC      | QH   | 100/120V AC   |
| Q3   | 12V AC/DC     | QM   | 200/220V AC   |
| Q4   | 24V AC/DC     | QM4  | 230/240V AC   |

#### Pushbuttons

**C W 1 B - M 1 E 10 ①**

| Code | Bezel Color |
|------|-------------|
| 1    | Black       |
| 4    | Metallic    |

| Code | Operation  |
|------|------------|
| M    | Momentary  |
| A    | Maintained |

| Code | Shape          |
|------|----------------|
| 1    | Round Flush    |
| 2    | Round Extended |

#### Button Color

| Code | Color | Code | Color  |
|------|-------|------|--------|
| A    | Amber | R    | Red    |
| B    | Black | S    | Blue   |
| G    | Green | Y    | Yellow |

#### Contact Configuration

| Code | Contact Configuration | Code | Contact Configuration |
|------|-----------------------|------|-----------------------|
| 10   | 1NO                   | 02   | 2NC                   |
| 01   | 1NC                   | 21   | 2NO-1NC               |
| 11   | 1NO-1NC               | 22   | 2NO-2NC               |
| 12   | 1NO-2NC               | 30   | 3NO                   |
| 20   | 2NO                   | 03   | 3NC                   |

## Selector Switches

**CW 1 S - 2 L E 10**

**Bezel Color**

| Code | Bezel Color |
|------|-------------|
| 1    | Black       |
| 4    | Metallic    |

**Positions**

**2-position**

| Code | Position                                                                                        | Code | Positions                                                                                                     |
|------|-------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------|
| 2    | Maintained<br> | 21   | Spring return from right<br> |

**3-position**

| Code | Position                                                                                        | Code | Positions                                                                                                     | Code | Position                                                                                                     | Code | Positions                                                                                                  |
|------|-------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------|
| 3    | Maintained<br> | 31   | Spring return from right<br> | 32   | Spring return from left<br> | 33   | Spring return two-way<br> |

**Contact Configuration**  
See page 12 and 13.

**Operator**

| Code  | Shape |
|-------|-------|
| Blank | Knob  |
| L     | Lever |

## Key Selector Switches

**CW 1 K - 2 A E 10 - 1H**

**Bezel Color**

| Code | Bezel Color |
|------|-------------|
| 1    | Black       |
| 4    | Metallic    |

**Positions**

| Code | Bezel Color                              |
|------|------------------------------------------|
| 2    | 90° 2-position, maintained               |
| 21   | 90° 2-position, spring return from right |
| 3    | 45° 3-position, maintained               |
| 31   | 45° 3-position, spring return from right |
| 32   | 45° 3-position, spring return from left  |
| 33   | 45° 3-position, spring return two-way    |

**Key**

| Code     | Bezel Color        |
|----------|--------------------|
| Blank    | Standard           |
| 1H to 2H | Reversible Key     |
| 3H to 6H | Non-reversible Key |

**Contact Configuration**  
See page 14 and 15.

**Key Removal Position**

**2-position**

| Code | Position                                                                                          | Code | Positions                                                                                                     | Code | Positions                                                                                                      |
|------|---------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------|
| A    | Maintained<br> | B    | Removable in left only<br> | C    | Removable in right only<br> |



①②: Key retained position

Note: The key cannot be removed in a spring return position.

## 3-position

| Code | Position                                                                                                                        | Code | Positions                                                                                                           | Code | Positions                                                                                                            | Code | Positions                                                                                                       |
|------|---------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------|
| A    | Maintained<br>                               | B    | Removable in left and center<br> | C    | Removable in right and center<br> | D    | Removable in center only<br> |
| E    | Maintained (removable in right and left)<br> | G    | Removable in left only<br>       | H    | Removable in right only<br>       |      |                                                                                                                 |

①②: Key retained position

| Spring Return from right                                                            | Spring Return from left                                                             | Spring Return two-way                                                               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |

Note: The key cannot be removed in a spring return position.

# ø22 Flush Silhouette Switches CW Series Illuminated Pushbuttons

## Illuminated Pushbuttons

Package quantity: 1

| Shape                                                                                                                                                                                                                                                       | Operation  | Operating Voltage | Contact Configuration | Part No.       |                | Illumination Color Code ②                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|-----------------------|----------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                             |            |                   |                       | Black Bezel    | Metallic Bezel |                                                                                                                                                  |
| Round Flush<br>CW□L-M1<br>CW□L-A1<br><br><br>(black bezel)<br><br><br>(metallic bezel) | Momentary  | 6V AC/DC          | 1NO                   | CW1L-M1E10Q2②  | CW4L-M1E10Q2②  | Specify an illumination color code in place of ② in the Part No.<br><br>A: amber<br>G: green<br>PW: pure white<br>R: red<br>S: blue<br>Y: yellow |
|                                                                                                                                                                                                                                                             |            |                   | 1NC                   | CW1L-M1E01Q2②  | CW4L-M1E01Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NO-1NC               | CW1L-M1E11Q2②  | CW4L-M1E11Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO                   | CW1L-M1E20Q2②  | CW4L-M1E20Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NC                   | CW1L-M1E02Q2②  | CW4L-M1E02Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO-2NC               | CW1L-M1E22Q2②  | CW4L-M1E22Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            | 12V AC/DC         | 1NO                   | CW1L-M1E10Q3②  | CW4L-M1E10Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NC                   | CW1L-M1E01Q3②  | CW4L-M1E01Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NO-1NC               | CW1L-M1E11Q3②  | CW4L-M1E11Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO                   | CW1L-M1E20Q3②  | CW4L-M1E20Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NC                   | CW1L-M1E02Q3②  | CW4L-M1E02Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO-2NC               | CW1L-M1E22Q3②  | CW4L-M1E22Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            | 24V AC/DC         | 1NO                   | CW1L-M1E10Q4②  | CW4L-M1E10Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NC                   | CW1L-M1E01Q4②  | CW4L-M1E01Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NO-1NC               | CW1L-M1E11Q4②  | CW4L-M1E11Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO                   | CW1L-M1E20Q4②  | CW4L-M1E20Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NC                   | CW1L-M1E02Q4②  | CW4L-M1E02Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO-2NC               | CW1L-M1E22Q4②  | CW4L-M1E22Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            | 100/120V AC       | 1NO                   | CW1L-M1E10QH②  | CW4L-M1E10QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NC                   | CW1L-M1E01QH②  | CW4L-M1E01QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NO-1NC               | CW1L-M1E11QH②  | CW4L-M1E11QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO                   | CW1L-M1E20QH②  | CW4L-M1E20QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NC                   | CW1L-M1E02QH②  | CW4L-M1E02QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO-2NC               | CW1L-M1E22QH②  | CW4L-M1E22QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            | 200/220V AC       | 1NO                   | CW1L-M1E10QM②  | CW4L-M1E10QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NC                   | CW1L-M1E01QM②  | CW4L-M1E01QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NO-1NC               | CW1L-M1E11QM②  | CW4L-M1E11QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO                   | CW1L-M1E20QM②  | CW4L-M1E20QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NC                   | CW1L-M1E02QM②  | CW4L-M1E02QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO-2NC               | CW1L-M1E22QM②  | CW4L-M1E22QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            | 230/240V AC       | 1NO                   | CW1L-M1E10QM4② | CW4L-M1E10QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NC                   | CW1L-M1E01QM4② | CW4L-M1E01QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NO-1NC               | CW1L-M1E11QM4② | CW4L-M1E11QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO                   | CW1L-M1E20QM4② | CW4L-M1E20QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NC                   | CW1L-M1E02QM4② | CW4L-M1E02QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO-2NC               | CW1L-M1E22QM4② | CW4L-M1E22QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             | Maintained | 6V AC/DC          | 1NO                   | CW1L-A1E10Q2②  | CW4L-A1E10Q2②  | Specify an illumination color code in place of ② in the Part No.<br><br>A: amber<br>G: green<br>PW: pure white<br>R: red<br>S: blue<br>Y: yellow |
|                                                                                                                                                                                                                                                             |            |                   | 1NC                   | CW1L-A1E01Q2②  | CW4L-A1E01Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NO-1NC               | CW1L-A1E11Q2②  | CW4L-A1E11Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO                   | CW1L-A1E20Q2②  | CW4L-A1E20Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NC                   | CW1L-A1E02Q2②  | CW4L-A1E02Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO-2NC               | CW1L-A1E22Q2②  | CW4L-A1E22Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            | 12V AC/DC         | 1NO                   | CW1L-A1E10Q3②  | CW4L-A1E10Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NC                   | CW1L-A1E01Q3②  | CW4L-A1E01Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NO-1NC               | CW1L-A1E11Q3②  | CW4L-A1E11Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO                   | CW1L-A1E20Q3②  | CW4L-A1E20Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NC                   | CW1L-A1E02Q3②  | CW4L-A1E02Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO-2NC               | CW1L-A1E22Q3②  | CW4L-A1E22Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            | 24V AC/DC         | 1NO                   | CW1L-A1E10Q4②  | CW4L-A1E10Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NC                   | CW1L-A1E01Q4②  | CW4L-A1E01Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NO-1NC               | CW1L-A1E11Q4②  | CW4L-A1E11Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO                   | CW1L-A1E20Q4②  | CW4L-A1E20Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NC                   | CW1L-A1E02Q4②  | CW4L-A1E02Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO-2NC               | CW1L-A1E22Q4②  | CW4L-A1E22Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            | 100/120V AC       | 1NO                   | CW1L-A1E10QH②  | CW4L-A1E10QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NC                   | CW1L-A1E01QH②  | CW4L-A1E01QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NO-1NC               | CW1L-A1E11QH②  | CW4L-A1E11QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO                   | CW1L-A1E20QH②  | CW4L-A1E20QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NC                   | CW1L-A1E02QH②  | CW4L-A1E02QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO-2NC               | CW1L-A1E22QH②  | CW4L-A1E22QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            | 200/220V AC       | 1NO                   | CW1L-A1E10QM②  | CW4L-A1E10QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NC                   | CW1L-A1E01QM②  | CW4L-A1E01QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NO-1NC               | CW1L-A1E11QM②  | CW4L-A1E11QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO                   | CW1L-A1E20QM②  | CW4L-A1E20QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NC                   | CW1L-A1E02QM②  | CW4L-A1E02QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO-2NC               | CW1L-A1E22QM②  | CW4L-A1E22QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            | 230/240V AC       | 1NO                   | CW1L-A1E10QM4② | CW4L-A1E10QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NC                   | CW1L-A1E01QM4② | CW4L-A1E01QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 1NO-1NC               | CW1L-A1E11QM4② | CW4L-A1E11QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO                   | CW1L-A1E20QM4② | CW4L-A1E20QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NC                   | CW1L-A1E02QM4② | CW4L-A1E02QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                             |            |                   | 2NO-2NC               | CW1L-A1E22QM4② | CW4L-A1E22QM4② |                                                                                                                                                  |

- See page 21 for replacement LED modules.
- Marking film can be inserted to indicate legends. See page 23.
- See page 16 for dimensions.
- White lens type (when light is off) are available. Clear lens is used instead of colored lens for amber, green, red, and blue illuminated pushbuttons. Amber, green, red, or blue LED units are used. To specify, add W before the color code in Part No.  
Example:  
CW1L-M1E10Q2WR
- A dummy block is installed when one contact block is used.



## Illuminated Pushbuttons

Package quantity: 1

| Shape                                                                                                                                                                                                                                                          | Operation  | Operating Voltage | Contact Configuration | Part No.       |                | Illumination Color Code ②                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|-----------------------|----------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                |            |                   |                       | Black Bezel    | Metallic Bezel |                                                                                                                                                  |
| Round Extended<br>CW□L-M2<br>CW□L-A2<br><br><br>(black bezel)<br><br><br>(metallic bezel) | Momentary  | 6V AC/DC          | 1NO                   | CW1L-M2E10Q2②  | CW4L-M2E10Q2②  | Specify an illumination color code in place of ② in the Part No.<br><br>A: amber<br>G: green<br>PW: pure white<br>R: red<br>S: blue<br>Y: yellow |
|                                                                                                                                                                                                                                                                |            |                   | 1NC                   | CW1L-M2E01Q2②  | CW4L-M2E01Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NO-1NC               | CW1L-M2E11Q2②  | CW4L-M2E11Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO                   | CW1L-M2E20Q2②  | CW4L-M2E20Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NC                   | CW1L-M2E02Q2②  | CW4L-M2E02Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO-2NC               | CW1L-M2E22Q2②  | CW4L-M2E22Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            | 12V AC/DC         | 1NO                   | CW1L-M2E10Q3②  | CW4L-M2E10Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NC                   | CW1L-M2E01Q3②  | CW4L-M2E01Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NO-1NC               | CW1L-M2E11Q3②  | CW4L-M2E11Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO                   | CW1L-M2E20Q3②  | CW4L-M2E20Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NC                   | CW1L-M2E02Q3②  | CW4L-M2E02Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO-2NC               | CW1L-M2E22Q3②  | CW4L-M2E22Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            | 24V AC/DC         | 1NO                   | CW1L-M2E10Q4②  | CW4L-M2E10Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NC                   | CW1L-M2E01Q4②  | CW4L-M2E01Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NO-1NC               | CW1L-M2E11Q4②  | CW4L-M2E11Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO                   | CW1L-M2E20Q4②  | CW4L-M2E20Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NC                   | CW1L-M2E02Q4②  | CW4L-M2E02Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO-2NC               | CW1L-M2E22Q4②  | CW4L-M2E22Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            | 100/120V AC       | 1NO                   | CW1L-M2E10QH②  | CW4L-M2E10QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NC                   | CW1L-M2E01QH②  | CW4L-M2E01QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NO-1NC               | CW1L-M2E11QH②  | CW4L-M2E11QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO                   | CW1L-M2E20QH②  | CW4L-M2E20QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NC                   | CW1L-M2E02QH②  | CW4L-M2E02QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO-2NC               | CW1L-M2E22QH②  | CW4L-M2E22QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            | 200/220V AC       | 1NO                   | CW1L-M2E10QM②  | CW4L-M2E10QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NC                   | CW1L-M2E01QM②  | CW4L-M2E01QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NO-1NC               | CW1L-M2E11QM②  | CW4L-M2E11QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO                   | CW1L-M2E20QM②  | CW4L-M2E20QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NC                   | CW1L-M2E02QM②  | CW4L-M2E02QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO-2NC               | CW1L-M2E22QM②  | CW4L-M2E22QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            | 230/240V AC       | 1NO                   | CW1L-M2E10QM4② | CW4L-M2E10QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NC                   | CW1L-M2E01QM4② | CW4L-M2E01QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NO-1NC               | CW1L-M2E11QM4② | CW4L-M2E11QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO                   | CW1L-M2E20QM4② | CW4L-M2E20QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NC                   | CW1L-M2E02QM4② | CW4L-M2E02QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO-2NC               | CW1L-M2E22QM4② | CW4L-M2E22QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                | Maintained | 6V AC/DC          | 1NO                   | CW1L-A2E10Q2②  | CW4L-A2E10Q2②  | Specify an illumination color code in place of ② in the Part No.<br><br>A: amber<br>G: green<br>PW: pure white<br>R: red<br>S: blue<br>Y: yellow |
|                                                                                                                                                                                                                                                                |            |                   | 1NC                   | CW1L-A2E01Q2②  | CW4L-A2E01Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NO-1NC               | CW1L-A2E11Q2②  | CW4L-A2E11Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO                   | CW1L-A2E20Q2②  | CW4L-A2E20Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NC                   | CW1L-A2E02Q2②  | CW4L-A2E02Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO-2NC               | CW1L-A2E22Q2②  | CW4L-A2E22Q2②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            | 12V AC/DC         | 1NO                   | CW1L-A2E10Q3②  | CW4L-A2E10Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NC                   | CW1L-A2E01Q3②  | CW4L-A2E01Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NO-1NC               | CW1L-A2E11Q3②  | CW4L-A2E11Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO                   | CW1L-A2E20Q3②  | CW4L-A2E20Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NC                   | CW1L-A2E02Q3②  | CW4L-A2E02Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO-2NC               | CW1L-A2E22Q3②  | CW4L-A2E22Q3②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            | 24V AC/DC         | 1NO                   | CW1L-A2E10Q4②  | CW4L-A2E10Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NC                   | CW1L-A2E01Q4②  | CW4L-A2E01Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NO-1NC               | CW1L-A2E11Q4②  | CW4L-A2E11Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO                   | CW1L-A2E20Q4②  | CW4L-A2E20Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NC                   | CW1L-A2E02Q4②  | CW4L-A2E02Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO-2NC               | CW1L-A2E22Q4②  | CW4L-A2E22Q4②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            | 100/120V AC       | 1NO                   | CW1L-A2E10QH②  | CW4L-A2E10QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NC                   | CW1L-A2E01QH②  | CW4L-A2E01QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NO-1NC               | CW1L-A2E11QH②  | CW4L-A2E11QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO                   | CW1L-A2E20QH②  | CW4L-A2E20QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NC                   | CW1L-A2E02QH②  | CW4L-A2E02QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO-2NC               | CW1L-A2E22QH②  | CW4L-A2E22QH②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            | 200/220V AC       | 1NO                   | CW1L-A2E10QM②  | CW4L-A2E10QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NC                   | CW1L-A2E01QM②  | CW4L-A2E01QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NO-1NC               | CW1L-A2E11QM②  | CW4L-A2E11QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO                   | CW1L-A2E20QM②  | CW4L-A2E20QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NC                   | CW1L-A2E02QM②  | CW4L-A2E02QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO-2NC               | CW1L-A2E22QM②  | CW4L-A2E22QM②  |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            | 230/240V AC       | 1NO                   | CW1L-A2E10QM4② | CW4L-A2E10QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NC                   | CW1L-A2E01QM4② | CW4L-A2E01QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 1NO-1NC               | CW1L-A2E11QM4② | CW4L-A2E11QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO                   | CW1L-A2E20QM4② | CW4L-A2E20QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NC                   | CW1L-A2E02QM4② | CW4L-A2E02QM4② |                                                                                                                                                  |
|                                                                                                                                                                                                                                                                |            |                   | 2NO-2NC               | CW1L-A2E22QM4② | CW4L-A2E22QM4② |                                                                                                                                                  |

- See page 21 for replacement LED modules.
- Marking film can be inserted to indicate legends. See page 23.
- See page 16 for dimensions.
- White lens type (when light is off) are available. Clear lens is used instead of colored lens for amber, green, red, and blue illuminated pushbuttons. Amber, green, red, or blue LED units are used. To specify, add W before the color code in Part Number. Example: CW1L-M2E10Q2WR
- A dummy block is installed when one contact block is used.



## ø22 Flush Silhouette Switches CW series Pilot Lights

### Pilot Lights

Package quantity: 1

| Shape                                                                                                                                                                                                                                                                                                                                         | Operating Voltage | Part No.    |                | Illumination Color Code ②                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|--------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                               |                   | Black Bezel | Metallic Bezel |                                                                          |
| Round Flush<br>CW□P-1<br><br><br>(black bezel)<br><br><br>(metallic bezel)<br><br>         | 6V AC/DC          | CW1P-1EQ2②  | CW4P-1EQ2②     | A: amber<br>G: green<br>PW: pure white<br>R: red<br>S: blue<br>Y: yellow |
|                                                                                                                                                                                                                                                                                                                                               | 12V AC/DC         | CW1P-1EQ3②  | CW4P-1EQ3②     |                                                                          |
|                                                                                                                                                                                                                                                                                                                                               | 24V AC/DC         | CW1P-1EQ4②  | CW4P-1EQ4②     |                                                                          |
|                                                                                                                                                                                                                                                                                                                                               | 100/120V AC       | CW1P-1EQH②  | CW4P-1EQH②     |                                                                          |
|                                                                                                                                                                                                                                                                                                                                               | 200/220V AC       | CW1P-1EQM②  | CW4P-1EQM②     |                                                                          |
|                                                                                                                                                                                                                                                                                                                                               | 230/240V AC       | CW1P-1EQM4② | CW4P-1EQM4②    |                                                                          |
| Round Extended<br>CW□P-2<br><br><br>(black bezel)<br><br><br>(metallic bezel)<br><br> | 6V AC/DC          | CW1P-2EQ2②  | CW4P-2EQ2②     | A: amber<br>G: green<br>PW: pure white<br>R: red<br>S: blue<br>Y: yellow |
|                                                                                                                                                                                                                                                                                                                                               | 12V AC/DC         | CW1P-2EQ3②  | CW4P-2EQ3②     |                                                                          |
|                                                                                                                                                                                                                                                                                                                                               | 24V AC/DC         | CW1P-2EQ4②  | CW4P-2EQ4②     |                                                                          |
|                                                                                                                                                                                                                                                                                                                                               | 100/120V AC       | CW1P-2EQH②  | CW4P-2EQH②     |                                                                          |
|                                                                                                                                                                                                                                                                                                                                               | 200/220V AC       | CW1P-2EQM②  | CW4P-2EQM②     |                                                                          |
|                                                                                                                                                                                                                                                                                                                                               | 230/240V AC       | CW1P-2EQM4② | CW4P-2EQM4②    |                                                                          |

- Specify an illumination color code in place of ② in the Part No.
- See page 16 for dimensions.
- See page 21 for replacement LED modules.
- Two dummy blocks are installed.

## Pushbuttons

Package quantity: 1

| Shape                                                                                                                                                                                                                                                                                                                                          | Operation  | Contact Configuration | Part No.    |                | Button Color Code ①                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------|-------------|----------------|--------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                |            |                       | Black Bezel | Metallic Bezel |                                                                    |
| Round Flush<br>CW□B-M1<br>CW□B-A1<br><br>(black bezel)<br><br>(metallic bezel)<br>         | Momentary  | 1NO                   | CW1B-M1E10① | CW4B-M1E10①    | B: black<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow |
|                                                                                                                                                                                                                                                                                                                                                |            | 1NC                   | CW1B-M1E01① | CW4B-M1E01①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 1NO-1NC               | CW1B-M1E11① | CW4B-M1E11①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 2NO                   | CW1B-M1E20① | CW4B-M1E20①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 2NC                   | CW1B-M1E02① | CW4B-M1E02①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 2NO-1NC               | CW1B-M1E21① | CW4B-M1E21①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 1NO-2NC               | CW1B-M1E12① | CW4B-M1E12①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 3NO                   | CW1B-M1E30① | CW4B-M1E30①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 3NC                   | CW1B-M1E03① | CW4B-M1E03①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 2NO-2NC               | CW1B-M1E22① | CW4B-M1E22①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                | Maintained | 1NO                   | CW1B-A1E10① | CW4B-A1E10①    | B: black<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow |
|                                                                                                                                                                                                                                                                                                                                                |            | 1NC                   | CW1B-A1E01① | CW4B-A1E01①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 1NO-1NC               | CW1B-A1E11① | CW4B-A1E11①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 2NO                   | CW1B-A1E20① | CW4B-A1E20①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 2NC                   | CW1B-A1E02① | CW4B-A1E02①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 2NO-1NC               | CW1B-A1E21① | CW4B-A1E21①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 1NO-2NC               | CW1B-A1E12① | CW4B-A1E12①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 3NO                   | CW1B-A1E30① | CW4B-A1E30①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 3NC                   | CW1B-A1E03① | CW4B-A1E03①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 2NO-2NC               | CW1B-A1E22① | CW4B-A1E22①    |                                                                    |
| Round Extended<br>CW□B-M2<br>CW□B-A2<br><br>(black bezel)<br><br>(metallic bezel)<br> | Momentary  | 1NO                   | CW1B-M2E10① | CW4B-M2E10①    | B: black<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow |
|                                                                                                                                                                                                                                                                                                                                                |            | 1NC                   | CW1B-M2E01① | CW4B-M2E01①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 1NO-1NC               | CW1B-M2E11① | CW4B-M2E11①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 2NO                   | CW1B-M2E20① | CW4B-M2E20①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 2NC                   | CW1B-M2E02① | CW4B-M2E02①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 2NO-1NC               | CW1B-M2E21① | CW4B-M2E21①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 1NO-2NC               | CW1B-M2E12① | CW4B-M2E12①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 3NO                   | CW1B-M2E30① | CW4B-M2E30①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 3NC                   | CW1B-M2E03① | CW4B-M2E03①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 2NO-2NC               | CW1B-M2E22① | CW4B-M2E22①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                | Maintained | 1NO                   | CW1B-A2E10① | CW4B-A2E10①    | B: black<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow |
|                                                                                                                                                                                                                                                                                                                                                |            | 1NC                   | CW1B-A2E01① | CW4B-A2E01①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 1NO-1NC               | CW1B-A2E11① | CW4B-A2E11①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 2NO                   | CW1B-A2E20① | CW4B-A2E20①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 2NC                   | CW1B-A2E02① | CW4B-A2E02①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 2NO-1NC               | CW1B-A2E21① | CW4B-A2E21①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 1NO-2NC               | CW1B-A2E12① | CW4B-A2E12①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 3NO                   | CW1B-A2E30① | CW4B-A2E30①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 3NC                   | CW1B-A2E03① | CW4B-A2E03①    |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                |            | 2NO-2NC               | CW1B-A2E22① | CW4B-A2E22①    |                                                                    |

- Specify a button color code in place of ① in the Part No.
- See page 17 for dimensions.
- Two or one dummy block is installed when one or two contact blocks are used, respectively.
- Contact configurations 2NO-1NC, 1NO-2C, 3NO, and 3NC are available for momentary pushbuttons only.

# ø22 Flush Silhouette Switches CW series Selector Switches

| Selector Switches   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Package quantity: 1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Shape               | <div>CW□S<br/>(Knob Operator)</div> 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- Specify a bezel color code in place of □ in the Part No.: 1 (black bezel), 4 (metallic bezel)
  - Lever operator is also available. For dimensions, see page 18.
  - When ordering a lever operator selector switch, designate L before E in the Part No. of knob operator selector switches.
- [Example] CW1S-2E10 → CW1S-2LE10

Knob Operator

Lever Operator



CW1S-\*LE (black bezel)



CW4S-\*LE (metallic bezel)

Contact Block Mounting Position

1

2

3



12



# Flush Silhouette Switches CW series Selector Switches ø22

Package quantity: 1

| No. of Positions  | Contact Configuration (Code) | Contact Block     |         | Operator Position |   |           |  |  |  |  |
|-------------------|------------------------------|-------------------|---------|-------------------|---|-----------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                   |                              | Mounting Position | Contact | L                 | C | R         |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 45°<br>3-position | 1NO-1NC (11)                 | 1                 | NO      | ●                 |   |           | CW□S-3E11                                                                         | CW□S-31E11                                                                         | CW□S-32E11                                                                          | CW□S-33E11                                                                          |
|                   |                              | 2                 | —       | Dummy             |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              | 3                 | NC      | ■                 |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 1NO-1NC (11N1)               | 1                 | NC      |                   | ■ |           | CW□S-3E11N1                                                                       | CW□S-31E11N1                                                                       | CW□S-32E11N1                                                                        | CW□S-33E11N1                                                                        |
|                   |                              | 2                 | —       | Dummy             |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              | 3                 | NO      |                   |   | ●         |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 1NO-1NC (11N2)               | 1                 | NO      | ●                 |   |           | CW□S-3E11N2                                                                       | CW□S-31E11N2                                                                       | CW□S-32E11N2                                                                        | CW□S-33E11N2                                                                        |
|                   |                              | 2                 | NC      |                   | ● |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              | 3                 | —       | Dummy             |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 1NO-1NC (11N3)               | 1                 | —       | Dummy             |   |           | CW□S-3E11N3                                                                       | CW□S-31E11N3                                                                       | CW□S-32E11N3                                                                        | CW□S-33E11N3                                                                        |
|                   |                              | 2                 | NC      |                   | ● |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              | 3                 | NO      |                   |   | ●         |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 1NO-1NC (11N4)               | 1                 | —       | Dummy             |   |           | CW□S-3E11N4                                                                       | CW□S-31E11N4                                                                       | CW□S-32E11N4                                                                        | CW□S-33E11N4                                                                        |
|                   |                              | 2                 | NO      | ●                 |   | ●         |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              | 3                 | NC      | ■                 |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 2NO (20)                     | 1                 | NO      | ●                 |   |           | CW□S-3E20                                                                         | CW□S-31E20                                                                         | CW□S-32E20                                                                          | CW□S-33E20                                                                          |
|                   |                              | 2                 | —       | Dummy             |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              | 3                 | NO      |                   |   | ●         |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 2NO (20N1)                   | 1                 | —       | Dummy             |   |           | CW□S-3E20N1                                                                       | CW□S-31E20N1                                                                       | CW□S-32E20N1                                                                        | CW□S-33E20N1                                                                        |
|                   |                              | 2                 | NO      | ●                 |   | ●         |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              | 3                 | NO      |                   |   | ●         |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 2NC (02)                     | 1                 | NC      |                   | ■ |           | CW□S-3E02                                                                         | CW□S-31E02                                                                         | CW□S-32E02                                                                          | CW□S-33E02                                                                          |
|                   |                              | 2                 | —       | Dummy             |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              | 3                 | NC      | ■                 |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 2NC (02N1)                   | 1                 | —       | Dummy             |   |           | CW□S-3E02N1                                                                       | CW□S-31E02N1                                                                       | CW□S-32E02N1                                                                        | CW□S-33E02N1                                                                        |
|                   |                              | 2                 | NC      |                   | ● |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              | 3                 | NC      | ■                 |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 2NO-1NC (21)                 | 1                 | NO      | ●                 |   |           | CW□S-3E21                                                                         | CW□S-31E21                                                                         | CW□S-32E21                                                                          | CW□S-33E21                                                                          |
|                   |                              | 2                 | NO      | ●                 |   | ●         |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              | 3                 | NC      | ■                 |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 2NO-1NC (21N1)               | 1                 | NO      | ●                 |   |           | CW□S-3E21N1                                                                       | CW□S-31E21N1                                                                       | CW□S-32E21N1                                                                        | CW□S-33E21N1                                                                        |
|                   |                              | 2                 | NC      |                   | ● |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              | 3                 | NO      |                   |   | ●         |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 1NO-2NC (12)                 | 1                 | NO      | ●                 |   |           | CW□S-3E12                                                                         | CW□S-31E12                                                                         | CW□S-32E12                                                                          | CW□S-33E12                                                                          |
|                   |                              | 2                 | NC      |                   | ● |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              | 3                 | NC      | ■                 |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 1NO-2NC (12N1)               | 1                 | NC      |                   | ■ |           | CW□S-3E12N1                                                                       | CW□S-31E12N1                                                                       | CW□S-32E12N1                                                                        | CW□S-33E12N1                                                                        |
|                   |                              | 2                 | NO      | ●                 |   | ●         |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              | 3                 | NC      | ■                 |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 3NO (30)                     | 1                 | NO      | ●                 |   |           | CW□S-3E30                                                                         | CW□S-31E30                                                                         | CW□S-32E30                                                                          | CW□S-33E30                                                                          |
|                   |                              | 2                 | NO      | ●                 |   | ●         |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              | 3                 | NO      |                   |   | ●         |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 3NC (03)                     | 1                 | NC      |                   | ■ |           | CW□S-3E03                                                                         | CW□S-31E03                                                                         | CW□S-32E03                                                                          | CW□S-33E03                                                                          |
|                   |                              | 2                 | NC      |                   | ● |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              | 3                 | NC      | ■                 |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 2NO-2NC (22)                 | 1                 | NO/NC   | NO                | ● |           | CW□S-3E22                                                                         | CW□S-31E22                                                                         | CW□S-32E22                                                                          | CW□S-33E22                                                                          |
|                   |                              |                   | NC      |                   | ■ |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              | 2                 | —       | Dummy             |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 3                            | NO/NC             | NO      |                   |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              | NC                | ■       |                   |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              |                   |         | ●                 |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 4NO (40)          | 1                            | 2NO               | NO      | ●                 |   | CW□S-3E40 | CW□S-31E40                                                                        | CW□S-32E40                                                                         | CW□S-33E40                                                                          |                                                                                     |
|                   |                              |                   | NO      |                   |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 2                            | —                 | Dummy   |                   |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 3                            | 2NO               | NO      |                   |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              |                   | NO      |                   | ● |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              |                   |         | ●                 |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 2NO-2NC (22N2)    | 1                            | 2NC               | NC      |                   | ■ |           | CW□S-3E22N2                                                                       | CW□S-31E22N2                                                                       | CW□S-32E22N2                                                                        | CW□S-33E22N2                                                                        |
|                   |                              |                   | NC      | ■                 |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 2                            | —                 | Dummy   |                   |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 3                            | 2NO               | NC      |                   |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              |                   | NC      |                   | ● |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                              |                   |         | ●                 |   |           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |

• Specify a bezel color code in place of □ in the Part No.: 1 (black bezel), 4 (metallic bezel) • For the contact block mounting position, see page 12.

• Lever operator is also available. For dimensions, see page 18.

• When ordering a lever operator selector switch, designate L before E in the Part No. of knob operator selector switches.

[Example] CW1S-3E11 → CW1S-3LE11

Knob Operator    Lever Operator

# ø22 Flush Silhouette Switches CW series Key Selector Switches

## Key Selector Switches

Package quantity: 1

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |               |       |                   |            |                                                                                                                                                   |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------|-------|-------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Shape          | CW□K <div>    </div> <div>   </div> <div>           (black bezel)           (metallic bezel)         </div> |                              |               |       |                   |            |                                                                                                                                                   |
|                | No. of Positions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Contact Configuration (Code) | Contact Block |       | Operator Position |            | <div>           L           R           Maintained         </div> <div>           L           R           Spring return from right         </div> |
| 90° 2-position | 1NO<br>(10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                            | NO            |       | I                 |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2                            | —             | Dummy |                   |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                            | —             | Dummy |                   | CW□K-2AE10 | CW□K-21BE10                                                                                                                                       |
|                | 1NC<br>(01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                            | —             | Dummy |                   |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2                            | —             | Dummy |                   |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                            | NC            | ●     |                   | CW□K-2AE01 | CW□K-21BE01                                                                                                                                       |
|                | 1NO-1NC<br>(11)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                            | NO            |       | ●                 |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2                            | —             | Dummy |                   |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                            | NC            | ●     |                   | CW□K-2AE11 | CW□K-21BE11                                                                                                                                       |
|                | 2NO<br>(20)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                            | NO            |       | ●                 |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2                            | —             | Dummy |                   |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                            | NO            |       | ●                 | CW□K-2AE20 | CW□K-21BE20                                                                                                                                       |
|                | 2NC<br>(02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                            | NC            | ●     |                   |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2                            | —             | Dummy |                   |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                            | NC            | ●     |                   | CW□K-2AE02 | CW□K-21BE02                                                                                                                                       |
|                | 2NO-1NC<br>(21)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                            | NO            |       | ●                 |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2                            | NO            |       | ●                 |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                            | NC            | ●     |                   | CW□K-2AE21 | CW□K-21BE21                                                                                                                                       |
|                | 1NO-2NC<br>(12)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                            | NO            |       | ●                 |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2                            | NC            | ●     |                   |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                            | NC            | ●     |                   | CW□K-2AE12 | CW□K-21BE12                                                                                                                                       |
|                | 3NO<br>(30)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                            | NO            |       | ●                 |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2                            | NO            |       | ●                 |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                            | NO            |       | ●                 | CW□K-2AE30 | CW□K-21BE30                                                                                                                                       |
|                | 3NC<br>(03)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                            | NC            | ●     |                   |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2                            | NC            | ●     |                   |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                            | NC            | ●     |                   | CW□K-2AE03 | CW□K-21BE03                                                                                                                                       |
|                | 2NO-2NC<br>(22)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                            | NO/NC         | NO    | ●                 |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2                            | —             | Dummy |                   |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                            | NO/NC         | NO    | ●                 | CW□K-2AE22 | CW□K-21BE22                                                                                                                                       |
|                | 4NO<br>(40)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                            | 2NO           | NO    | ●                 |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2                            | —             | Dummy |                   |            |                                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                            | 2NO           | NO    | ●                 | CW□K-2AE40 | CW□K-21BE40                                                                                                                                       |

- Specify a bezel color code in place of □ in the Part No.: 1 (black bezel), 4 (metallic bezel)
- On the spring-returned types, the key can be released only from the maintained position. On the maintained types, the key can be released from every position. Key retained positions are also available. See below.
- Two keys are supplied. • Key cylinder material: Metal
- Besides the standard key (key number 0H), six other keys are also available. See below.
- For the contact block mounting position, see page 12. • For dimensions, see page 19.
- When ordering an optional key or optional key retained positions, specify designation codes as shown below:

[Example] CW1K-2AE10-1H

|                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>           (blank): Standard key (0H, reversible)<br/>           1H to 2H: Reversible key<br/>           3H to 6H: Non-reversible key         </div> <div>           Key removal position code<br/>           2-position<br/>           A: Removable in all positions<br/>           B: Removable in left only<br/>           C: Removable in right only         </div> | <div>           Note:<br/>           Key number is indicated on the key cylinder.<br/>           Standard keys do not have a key number indication.         </div> <div>           3-position<br/>           A: Removable in all positions<br/>           B: Removable in left and center<br/>           C: Removable in right and center<br/>           D: Removable in center only<br/>           E: Removable in right and left<br/>           G: Removable in left only<br/>           H: Removable in right only         </div> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Note: Key is retained in the spring-returned position.

# Flush Silhouette Switches CW series Key Selector Switches ø22

Package quantity: 1

| No. of Positions  | Contact Configuration | Contact Block     |         | Operator Position |        |        |  |  |  |  |
|-------------------|-----------------------|-------------------|---------|-------------------|--------|--------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                   |                       | Mounting Position | Contact | L                 | C      | R      |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 45°<br>3-position | 1NO-1NC (11)          | 1                 | NO      | ●                 |        |        | CW□K-3AE11                                                                        | CW□K-31BE11                                                                        | CW□K-32CE11                                                                         | CW□K-33DE11                                                                         |
|                   |                       | 2                 | —       | Dummy             |        |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                       | 3                 | NC      | ■                 |        |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 1NO-1NC (11N1)        | 1                 | NC      |                   | ■      |        | CW□K-3AE11N1                                                                      | CW□K-31BE11N1                                                                      | CW□K-32CE11N1                                                                       | CW□K-33DE11N1                                                                       |
|                   |                       | 2                 | —       | Dummy             |        |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                       | 3                 | NO      |                   |        | ●      |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 1NO-1NC (11N2)        | 1                 | NO      | ●                 |        |        | CW□K-3AE11N2                                                                      | CW□K-31BE11N2                                                                      | CW□K-32CE11N2                                                                       | CW□K-33DE11N2                                                                       |
|                   |                       | 2                 | NC      |                   | ●      |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                       | 3                 | —       | Dummy             |        |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 1NO-1NC (11N3)        | 1                 | —       | Dummy             |        |        | CW□K-3AE11N3                                                                      | CW□K-31BE11N3                                                                      | CW□K-32CE11N3                                                                       | CW□K-33DE11N3                                                                       |
|                   |                       | 2                 | NC      |                   | ●      |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                       | 3                 | NO      |                   |        | ●      |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 1NO-1NC (11N4)        | 1                 | —       | Dummy             |        |        | CW□K-3AE11N4                                                                      | CW□K-31BE11N4                                                                      | CW□K-32CE11N4                                                                       | CW□K-33DE11N4                                                                       |
|                   |                       | 2                 | NO      | ●                 |        | ●      |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                       | 3                 | NC      | ■                 |        |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 2NO (20)              | 1                 | NO      | ●                 |        |        | CW□K-3AE20                                                                        | CW□K-31BE20                                                                        | CW□K-32CE20                                                                         | CW□K-33DE20                                                                         |
|                   |                       | 2                 | —       | Dummy             |        |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                       | 3                 | NO      |                   |        | ●      |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 2NO (20N1)            | 1                 | —       | Dummy             |        |        | CW□K-3AE20N1                                                                      | CW□K-31BE20N1                                                                      | CW□K-32CE20N1                                                                       | CW□K-33DE20N1                                                                       |
|                   |                       | 2                 | NO      | ●                 |        | ●      |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                       | 3                 | NO      |                   |        | ●      |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 2NC (02)              | 1                 | NC      |                   | ■      |        | CW□K-3AE02                                                                        | CW□K-31BE02                                                                        | CW□K-32CE02                                                                         | CW□K-33DE02                                                                         |
|                   |                       | 2                 | —       | Dummy             |        |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                       | 3                 | NC      | ■                 |        |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 2NC (02N1)            | 1                 | —       | Dummy             |        |        | CW□K-3AE02N1                                                                      | CW□K-31BE02N1                                                                      | CW□K-32CE02N1                                                                       | CW□K-33DE02N1                                                                       |
|                   |                       | 2                 | NC      |                   | ●      |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                       | 3                 | NC      | ■                 |        |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 2NO-1NC (21)          | 1                 | NO      | ●                 |        |        | CW□K-3AE21                                                                        | CW□K-31BE21                                                                        | CW□K-32CE21                                                                         | CW□K-33DE21                                                                         |
|                   |                       | 2                 | NO      | ●                 |        | ●      |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                       | 3                 | NC      | ■                 |        |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 2NO-1NC (21N1)        | 1                 | NO      | ●                 |        |        | CW□K-3AE21N1                                                                      | CW□K-31BE21N1                                                                      | CW□K-32CE21N1                                                                       | CW□K-33DE21N1                                                                       |
|                   |                       | 2                 | NC      |                   | ●      |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                       | 3                 | NO      |                   |        | ●      |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 1NO-2NC (12)          | 1                 | NO      | ●                 |        |        | CW□K-3AE12                                                                        | CW□K-31BE12                                                                        | CW□K-32CE12                                                                         | CW□K-33DE12                                                                         |
|                   |                       | 2                 | NC      |                   | ●      |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                       | 3                 | NC      | ■                 |        |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 1NO-2NC (12N1)        | 1                 | NC      |                   | ■      |        | CW□K-3AE12N1                                                                      | CW□K-31BE12N1                                                                      | CW□K-32CE12N1                                                                       | CW□K-33DE12N1                                                                       |
|                   |                       | 2                 | NO      | ●                 |        | ●      |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                       | 3                 | NC      | ■                 |        |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 3NO (30)              | 1                 | NO      | ●                 |        |        | CW□K-3AE30                                                                        | CW□K-31BE30                                                                        | CW□K-32CE30                                                                         | CW□K-33DE30                                                                         |
|                   |                       | 2                 | NO      | ●                 |        | ●      |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                       | 3                 | NO      |                   |        | ●      |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 3NC (03)              | 1                 | NC      |                   | ■      |        | CW□K-3AE03                                                                        | CW□K-31BE03                                                                        | CW□K-32CE03                                                                         | CW□K-33DE03                                                                         |
|                   |                       | 2                 | NC      |                   | ●      |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                       | 3                 | NC      | ■                 |        |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 2NO-2NC (22)          | 1                 | NO/NC   | NO<br>NC          | ●<br>■ | ■      | CW□K-3AE22                                                                        | CW□K-31BE22                                                                        | CW□K-32CE22                                                                         | CW□K-33DE22                                                                         |
|                   |                       | 2                 | —       | Dummy             |        |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                       | 3                 | NO/NC   | NO<br>NC          | ●<br>■ | ●      |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 4NO (40)              | 1                 | 2NO     | NO<br>NO          | ●<br>● |        | CW□K-3AE40                                                                        | CW□K-31BE40                                                                        | CW□K-32CE40                                                                         | CW□K-33DE40                                                                         |
|                   |                       | 2                 | —       | Dummy             |        |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                       | 3                 | 2NO     | NO<br>NO          |        | ●<br>● |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   | 2NO-2NC (22N2)        | 1                 | 2NC     | NC<br>NC          | ■<br>■ | ■      | CW□K-3AE22N2                                                                      | CW□K-31BE22N2                                                                      | CW□K-32CE22N2                                                                       | CW□K-33DE22N2                                                                       |
|                   |                       | 2                 | —       | Dummy             |        |        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                   |                       | 3                 | 2NO     | NO<br>NO          |        | ●<br>● |                                                                                   |                                                                                    |                                                                                     |                                                                                     |

- Specify a bezel color code in place of □ in the Part No.: 1 (black bezel), 4 (metallic bezel)
- On the spring-returned types, the key can be released only from the maintained position. On the maintained types, the key can be released from every position. Key retained positions are also available. See page 14.
- Two keys are supplied. • Key cylinder material: Metal
- Besides the standard key (key number 0H), six other keys are also available. See page 14.
- For the contact block mounting position, see right.
- For dimensions, see page 19.

Contact Block Mounting Position



**Ø22**

## Dimensions

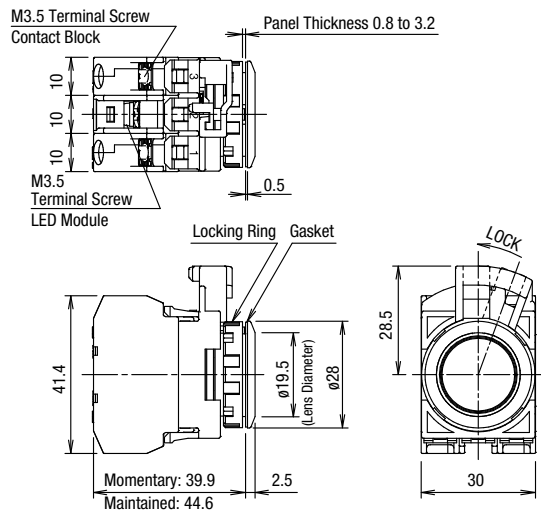
All dimensions in mm.

## Illuminated Pushbuttons

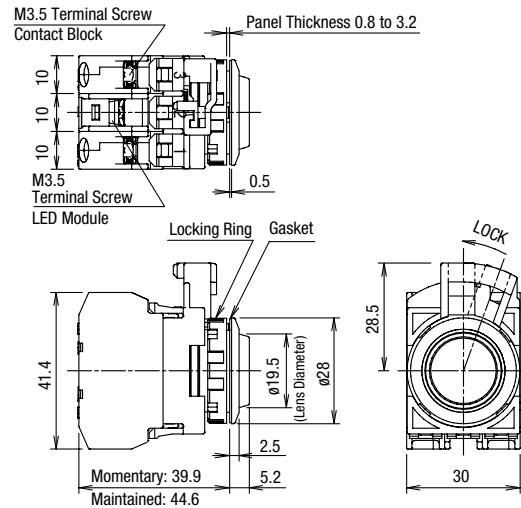
See page 5 for mounting hole layout.

## 1 to 2 contacts

## Round Flush

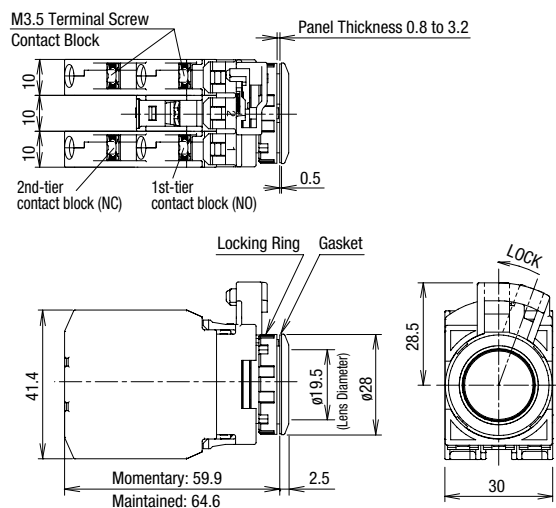


### Round Extended

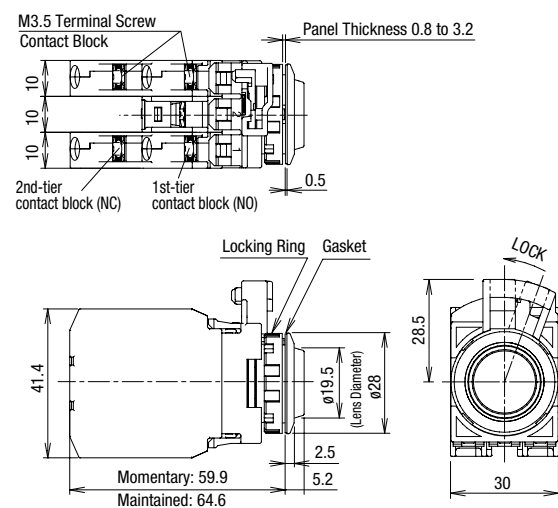


**4 contacts**

## Round Flush

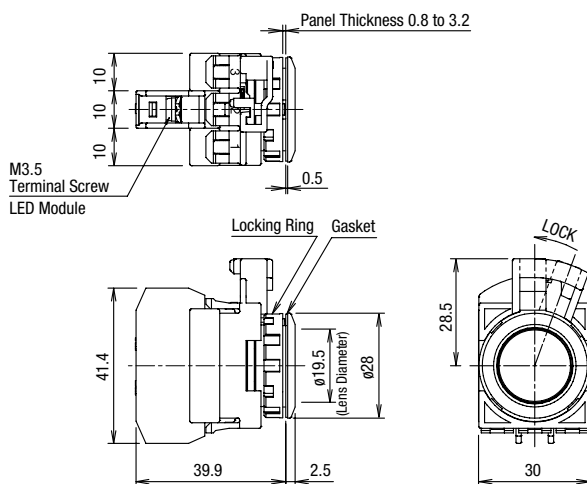


### Round Extended

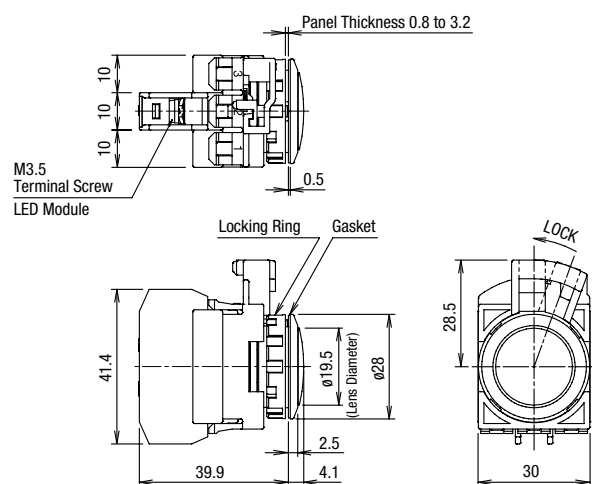


## Pilot Lights

## Round Flush



## Round Extended

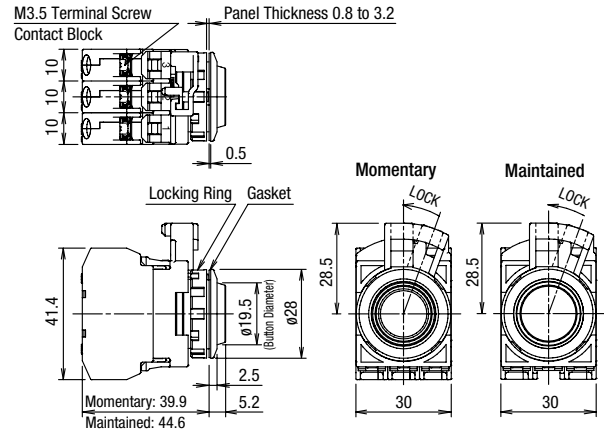


Ø22

All dimensions in mm.

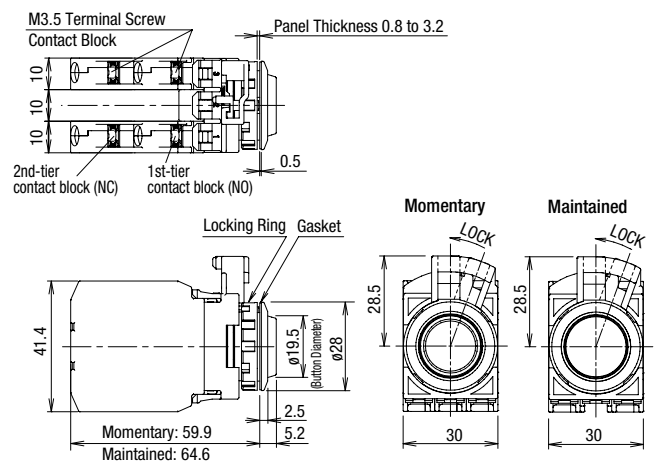
**1 to 3 contacts**

### Round Extended



### Round Extended

### Round Extended



## ø22 Flush Silhouette Switches CW series Dimensions

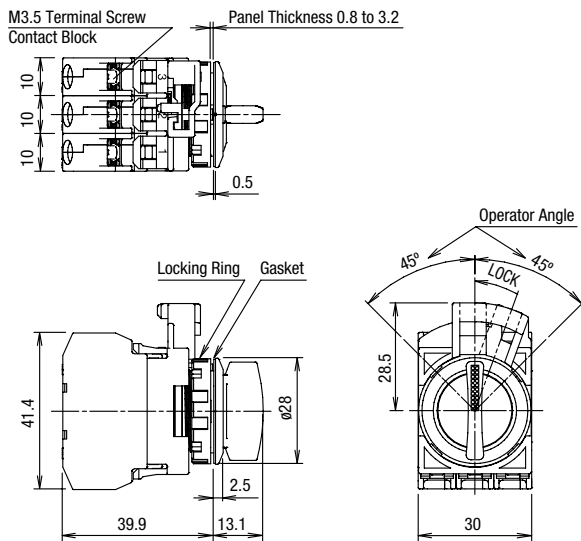
### Selector Switches

All dimensions in mm.

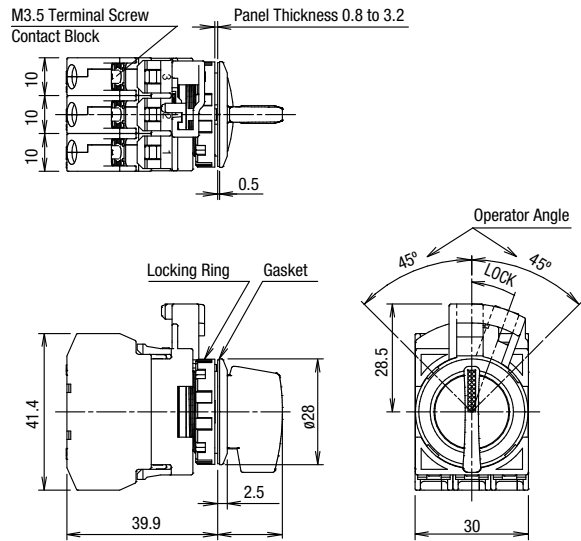
#### 1 to 3 contacts

See page 5 for mounting hole layout.

##### Knob Operator

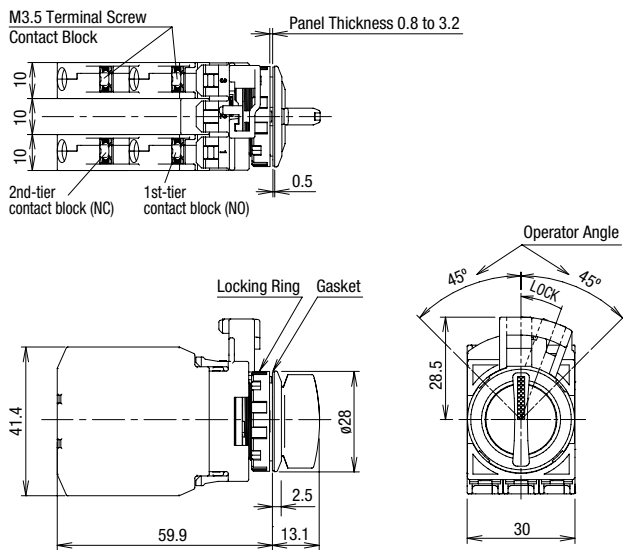


##### Lever Operator

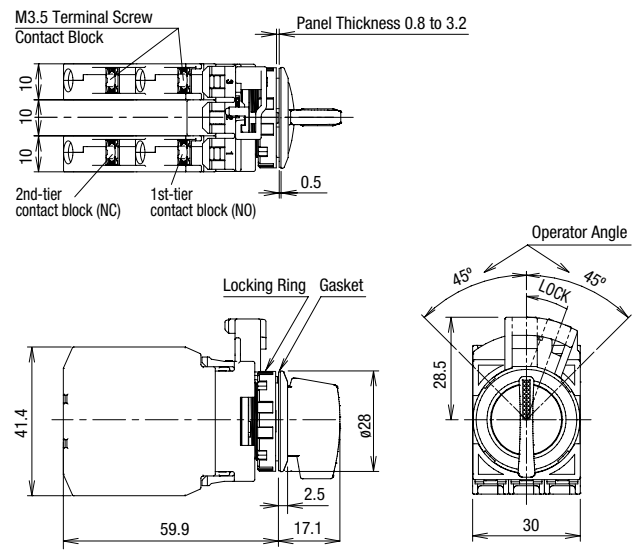


#### 4 contacts

##### Knob Operator

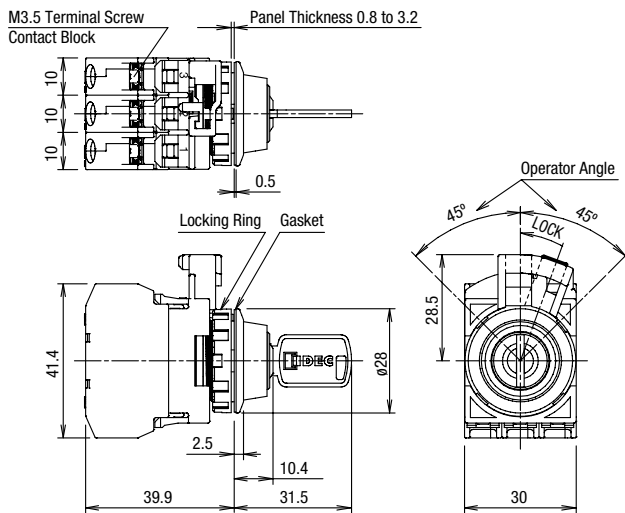


##### Lever Operator

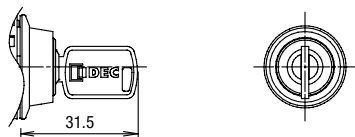


## Key Selector Switches

### 1 to 3 contacts



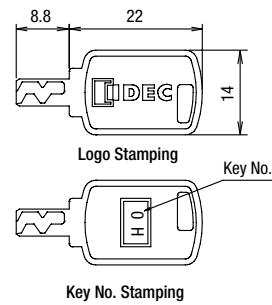
Key No: 0H to 2H (reversible key)



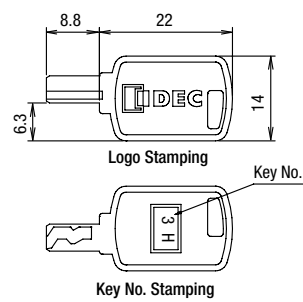
Key No: 3H to 6H (non-reversible key)

## Keys

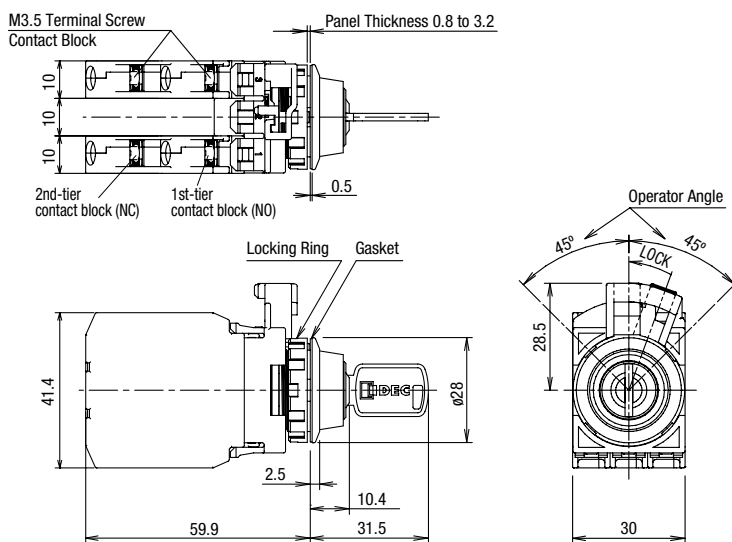
### Reversible Key



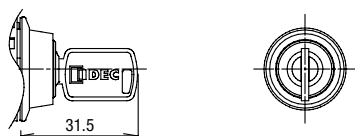
### Non-reversible Key



### 4 contacts



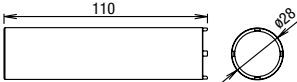
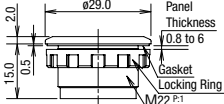
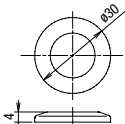
Key No: 0H to 2H (reversible key)



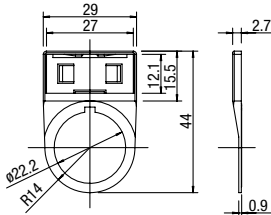
Key No: 3H to 6H (non-reversible key)

See page 5 for mounting hole layout.

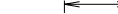
## Accessories

| Shape                                                                             | Material                               | Part No. | Package Quantity | Remarks                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------|----------------------------------------|----------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Brass                                  | MW9Z-T1  | 1                | <ul style="list-style-type: none"> <li>Used to tighten the locking ring when installing the CW series control unit in a panel cut-out.</li> <li>Weight: Approx 150 g</li> </ul>                                |
|  | Polyamide (black)                      | LW9Z-BP1 | 1                | <ul style="list-style-type: none"> <li>Used to plug an unnecessary <math>\varnothing 22.3</math> mm hole in the panel.</li> <li>Degree of protection: IP65</li> <li>Panel thickness: 0.8 to 6.0 mm</li> </ul>  |
|  | Rubber<br>(Transparent silicon rubber) | CW9Z-D11 | 1                | <ul style="list-style-type: none"> <li>Degree of protection: IP66/67 UL Type 4X</li> <li>Panel thickness: 0.8 to 3.2 mm</li> <li>Use with round extended illuminated push-buttons/pushbuttons.</li> </ul>      |
|  |                                        | CW9Z-D12 | 1                |                                                                                                                                                                                                                                                                                                   |

## Nameplates

| Description                                                                         | Legend                                 | Material        | Part No. | Ordering No.    | Package Quantity | Dimensions (mm)                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|----------------------------------------|-----------------|----------|-----------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Order marking plate (HWNP) separately. | Plastic (black) | CWAM     | <p>CWAM</p>     | 1                | <ul style="list-style-type: none"> <li>Marking plate HWNP is necessary.</li> <li>Degree of protection: IP65</li> <li>Do not remove the gasket on the operator.</li> </ul>  |
|                                                                                     |                                        |                 | CWAM     | <p>CWAMPN10</p> | 10               | <ul style="list-style-type: none"> <li>Cannot be used with HW/FB series control box types.</li> </ul>                                                                                                                                                           |

## Making Plate

| Description                                                                                 | Material                         | Part No. | Ordering No. | Package Quantity | Dimensions (mm)                                                                                                                                                           |
|---------------------------------------------------------------------------------------------|----------------------------------|----------|--------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HWNP<br> | Aluminum (black)<br>1.0 mm thick | HWNP-*   | HWNP-*       | 1                | <ul style="list-style-type: none"> <li>White legend on black background.</li> </ul>  |
|                                                                                             |                                  |          | HWNP-***PN10 | 10               | <ul style="list-style-type: none"> <li>Engraving area: W25, H7</li> <li>Thickness: 1.0 mm</li> </ul>                                                                      |

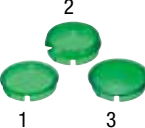
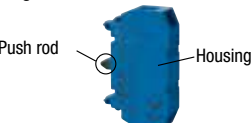
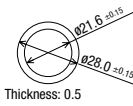
- Specify a legend code in place of \* in the Ordering No.

## Legends

| Code | Legend  | Code | Legend        |
|------|---------|------|---------------|
| 0    | (blank) | 4    | STOP          |
| 1    | ON      | 31   | OFF-ON        |
| 2    | OFF     | 33   | HAND-AUTO     |
| 3    | START   | 53   | HAND-OFF-AUTO |

## Maintenance Parts

Used for replacement only. Do not use the maintenance parts to remodel or expand the CW series control units.

| Shape                                                                                                                                                   |                      | Material                  | Part No.      | Ordering No.  | Package Quantity | Remarks                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------|---------------|---------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Button</b><br><div></div>                                           | 1 For round flush    | Polyarylate<br>ø19.5 H3.5 | CW9Z-B11①     | CW9Z-B11①PN05 | 5                | <ul style="list-style-type: none"><li>For maintained pushbuttons.</li><li>Specify a button color code in place of ① in the Part No.<br/>B (black), G (green), R (red), S (blue), W (white), Y (yellow)</li></ul>                            |
|                                                                                                                                                         | 2 For round extended | Polyarylate<br>ø19.5 H6.2 | CW9Z-B12①     | CW9Z-B12①PN05 | 5                |                                                                                                                                                                                                                                             |
| <b>Lens</b><br><div></div>                                             | 1 Round Flush        | Polyarylate               | CW9Z-L11②     | CW9Z-L11②PN05 | 5                | Color code ②: A (amber), C (clear), G (green), R (red), S (blue), Y (yellow)<br>Use a clear (C) lens for pure white (PW) illumination.<br>1: For illuminated pushbutton, pilot light<br>2: For illuminated pushbutton<br>3: For pilot light |
|                                                                                                                                                         | 2 Round Extended     | Polyarylate               | CW9Z-L12②     | CW9Z-L12②PN05 | 5                |                                                                                                                                                                                                                                             |
|                                                                                                                                                         | 3 Round Extended     | Polyarylate               | CW9Z-L15②     | CW9Z-L15②PN05 | 5                |                                                                                                                                                                                                                                             |
| <b>Single Contact Block</b><br><div></div>                             | 1NO                  |                           | YW-E10R       | YW-E10R       | 1                | Push rod color: black<br>Housing color: blue and black<br>Terminal No.: 3-4                                                                                                                                                                 |
|                                                                                                                                                         | 1NC                  |                           | YW-E01        | YW-E01        | 1                | Push rod color: red<br>Housing color: reddish purple<br>Terminal No.: 1-2                                                                                                                                                                   |
| <b>Double Contact Block</b><br><div><br/><br/>(photo: YW-EW1R1)</div> | 2NO                  |                           | YW-EW2R0      | YW-EW2R0      | 1                | Push rod color: black<br>Housing color: blue and black<br>Terminal No.<br>1st tier: 13-14<br>2nd tier: 23-24                                                                                                                                |
|                                                                                                                                                         | 2NC                  |                           | YW-EW02       | YW-EW02       | 1                | Push rod color: red<br>Housing color: reddish purple<br>Terminal No.<br>1st tier: 11-12<br>2nd tier: 21-22                                                                                                                                  |
|                                                                                                                                                         | 1NO, 1NC             |                           | YW-EW1R1      | YW-EW1R1      | 1                | Push rod color: gray<br>Housing color: reddish purple/blue<br>Terminal No.<br>1st tier: 13-14<br>2nd tier: 21-22                                                                                                                            |
| <b>Dummy Block</b><br><div></div>                                    | Polyamide (black)    | CW-DB                     | CW-DBPN05     |               | 5                |                                                                                                                                                                                                                                             |
| <b>Locking Ring</b><br><div></div>                                   | Polyamide (black)    | CW9Z-LN                   | CW9Z-LNPN05   |               | 5                |                                                                                                                                                                                                                                             |
| <b>Gasket</b><br><div></div>                                         | Nitrile rubber       | CW9Z-WM                   | CW9Z-WMPN10   |               | 10               | Waterproof gasket between CW control unit bezel and the mounting panel.<br><div><br/>Thickness: 0.5</div>                                              |
| <b>Spare Key</b><br><div></div>                                      | Zinc (nickel-plated) | LA9Z-SK-□                 | LA9Z-SK-□PN02 |               | 2                | Specify a key No. in place of □.<br>0H: Standard key (reversible)<br>1H to 2H: Reversible key<br>3H to 6H: Non-reversible key<br>For dimensions, see page 19.                                                                               |

## LED Module

Package quantity: 1

| Shape                                                                               | Operating Voltage Range | Current Draw | Part No.         | Illumination Color Code ②                                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------|--------------|------------------|---------------------------------------------------------------------------------------------------------------------------------|
|  | 6V AC/DC ±10%           | 15 mA        | <b>CW-EAQ2②</b>  | Specify an illumination color code in place of ② in the Part No.<br>A: amber<br>G: green<br>PW: pure white<br>R: red<br>S: blue |
|                                                                                     | 12V AC/DC ±10%          | 15 mA        | <b>CW-EAQ3②</b>  |                                                                                                                                 |
|                                                                                     | 24V AC/DC ±10%          | 16.5 mA      | <b>CW-EAQ4②</b>  |                                                                                                                                 |
|                                                                                     | 100/120V AC ±10%        | 18 mA        | <b>CW-EAQH②</b>  |                                                                                                                                 |
|                                                                                     | 200/220V AC ±10%        | 20 mA        | <b>CW-EAQM②</b>  |                                                                                                                                 |
|                                                                                     | 230/240V AC ±10%        | 18 mA        | <b>CW-EAQM4②</b> |                                                                                                                                 |

• Use a pure white (PW) LED module for yellow (Y) illumination.

## Safety Precautions

- Turn off the power to the CW series control units before installation, removal, wiring, and maintenance. Failure to turn power off may cause electrical shocks or fire hazard.
- For wiring, use wires of a proper size to meet the voltage and current requirements. Tighten the M3.5 terminal screws to a tightening torque of 1.0 to 1.3 N·m. Failure to tighten the terminal screws may cause overheating and fire.

## Operating Instructions

### Notes for Operation

- When using the CW series control units in a safety-related circuit of a control system, observe safety rules and regulations of each country concerning particular applications of the actual machines and facilities. Perform risk assessment before operation to ensure safety.

### Operating Conditions

- In corrosive gas or high-temperature, high-humidity atmosphere, contact failure due to corrosion or color change or breakage of the housing may occur.
- Main parts of the CW series control units are made of plastics. Do not scratch the surface with a sharp object or apply excessive shocks or load, otherwise the control units may be damaged. In particular, keep the button, lens, and bezel from such damage, otherwise appearance and function may be impaired.
- Do not apply detergents, cutting oils, or chemicals which may impair the function and appearance of the CW series control units.

### Removing and Installing the Contact Unit

1. To remove the contact block from the operator, push the yellow locking lever and turn it to the left.



2. To install, align the TOP marking on the operator with the TOP marking on the contact block mounting adaptor, and turn the locking lever to the right.

### Panel Mounting

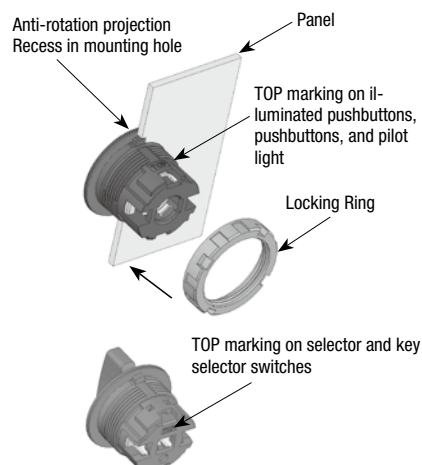
Remove the contact block from the operator. Remove the locking ring from the operator. Insert the operator into the panel cut-out from the front, tighten the locking ring from the back, then install the contact block to the operator.

### Installation in Panel Cut-out

Remove the locking ring from the operator. With the anti-rotation projection on the operator aligned with the recess in the mounting hole, insert the operator into the mounting hole. Tighten the locking ring from the rear of the panel.

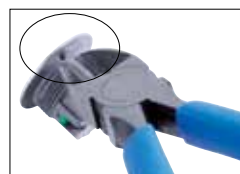
### Note for Panel Mounting

When installing the operator in a panel cut-out, use the optional locking ring wrench (MW9Z-T1) to tighten the locking ring to a recommended tightening torque of 1.2 N·m. Do not use pliers and do not tighten excessively, otherwise the operator may be damaged.



### Mounting Hole

1. Mounting hole dimensions are in compliance with IEC 60947-5-1.
2. If the anti-rotation projection is removed from the bezel, CW series control units can be mounted in ø22.3 mm mounting holes. To remove the anti-rotation projection, remove the gasket and use cutting pliers to break the projection.



## Operating Instructions

### Pushbuttons (momentary)

Momentary pushbutton caps cannot be removed. Do not tamper with the pushbutton caps using a screwdriver or pliers, otherwise the pushbutton caps may be damaged.

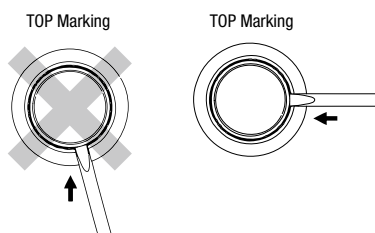
### Pushbuttons (maintained) / Illuminated Pushbuttons / Pilot Lights

#### Removing the button/lens

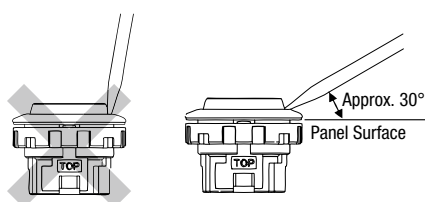
To remove the button or lens from a pushbutton, illuminated pushbutton or pilot light, insert a flat screwdriver under the flange of the lens at 90° from the TOP marking and twist the screwdriver.

Do not insert the screwdriver too deeply and do not apply excessive force to the lens, otherwise the bezel surface may be damaged.

#### [Screwdriver Insertion Direction]

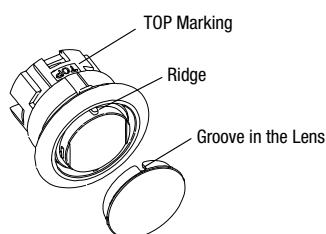


#### [Screwdriver Insertion Angle]



### Installing the Lens

Turn the groove in the lens to the TOP marking on the operator housing. With the groove aligned with the ridge, press the lens in.



### Marking

Marking plates are not available for CW series illuminated pushbuttons and pilot lights. Marking film can be inserted to indicate legends.

#### Applicable Marking Film Size

| Illuminated Pushbutton (Round Flush)<br>Pilot Light (Round Flush,<br>Round Extended) | Illuminated Pushbutton<br>(Round Extended) |
|--------------------------------------------------------------------------------------|--------------------------------------------|
|                                                                                      |                                            |

Thickness: 0.2 mm maximum

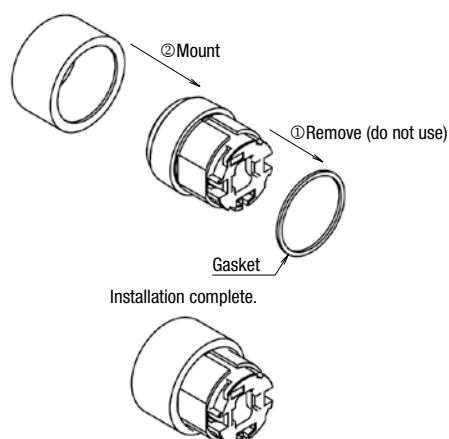
Film material: Polyester (recommended)

Note: Film is not supplied and must be prepared by the user.

### Installing the Rubber Boot

When using in places where the switches are subjected to water splash or an excessive amount of dust, make sure to use the optional rubber boot. Mount the rubber boot so that the protrusion at the bottom surface of the operator fits with the recess on the operator, placing the rubber boot all around the operator sleeve. Make sure that the protrusion on the rubber boot and the recess on the operator is properly fitted, otherwise, the waterproof and dustproof characteristics are not ensured.

#### How to Install the Rubber Boot



Note: Install the rubber boot before mounting the unit to the panel.

### Maintained

Do not replace the button/lens while the operator is latched. Otherwise the internal structure will be damaged.

### Selector Switches

Turn the selector operator or key to the detent positions.

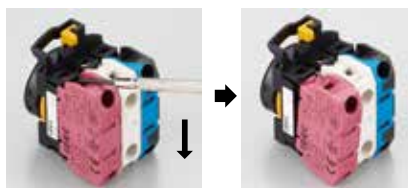
#### Key Selector Switches

To prevent malfunctions and damage, take the following precautions.

- Insert the key to the bottom before turning.
- Do not remove the key while turning.
- Besides the standard key (0H), six other keys are available. Use a key with a key selector switch of a matching number indicated on the key cylinder. Standard key does not have a key number indication.
- Keys are available in two shapes. Key numbers 0H (standard), 1H, and 2H are reversible keys. Key numbers 3H, 4H, 5H, and 6H are non-reversible keys. Make sure of correct insertion direction.

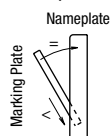
## Contact Blocks and LED Modules

To remove the contact block from the operator, insert a flat screwdriver under the latch and push down the screwdriver as shown below. Before removing the LED module, first remove all contact blocks, and remove the LED module in the same manner.

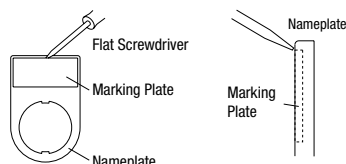


## Nameplate / Marking Plate

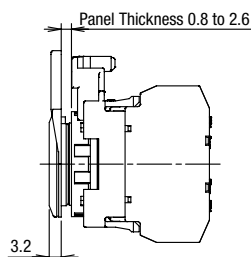
- Installing the marking plate on a nameplate



- To remove the marking plate, insert the flat screwdriver between the marking plate and nameplate.



Note: When using a nameplate, the mounting panel thickness is 2.6 mm maximum.



## Wiring

### Applicable Wires

Stranded wire: 2.0 mm<sup>2</sup> maximum (14AWG)

Solid wire: ø1.6 mm maximum (16AWG)

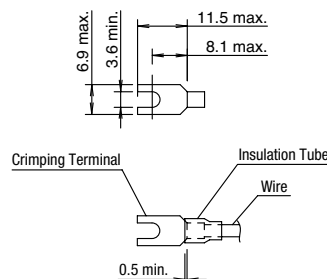
One or two wires can be connected to the terminal.

### Applicable Crimping Terminals

[Spade terminal]

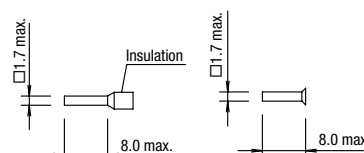
When using crimping terminals, be sure to use insulating tubes or use insulated crimping terminals.

Note: Ring terminals cannot be used.



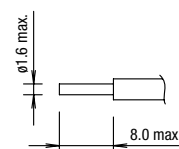
[Ferrule]

When connecting two ferrules to one terminal, use ferrules without insulation.



When using spade terminals or ferrules, insert them to the bottom.

[Solid Wire]



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