

# YW Series



Innovative Design, Space-Saving, Safety, and Self-Cleaning Contacts



• See website for details on approvals and standards.

## Emergency Stop Switches

Satisfy International Standards

- Safety Lock Mechanism
- Direct Opening Action →
- Safe Pushbutton Design



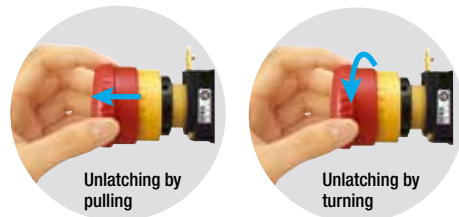
Non-illuminated

Illuminated

Easy Operation

- Push-to-lock, Pull/Turn-to-release

YW emergency stop switches can be unlatched by either pulling or turning the operator.



Unlatching by pulling

Unlatching by turning

## Unibody Pilot Lights

- Higher Brightness
- Measures only 42mm depth behind the panel
- Four Lens Shapes
- Panel Mounting



Flush

Flush w/marking

Extended

Dome

## Key Selector Switches

A variety of operations, key removal positions, and circuits.



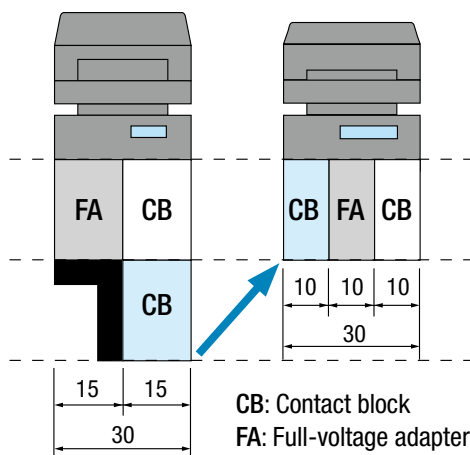
Plastic Bezel

Metal Bezel

## Save

## New Contact Block Design

## YW series



The contact block design reduces the depth behind the panel.

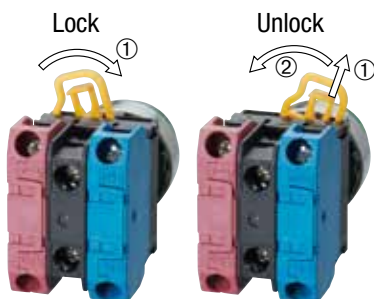


Metal bezels are available for pushbuttons, illuminated pushbuttons, selector switches, and key selector switches.

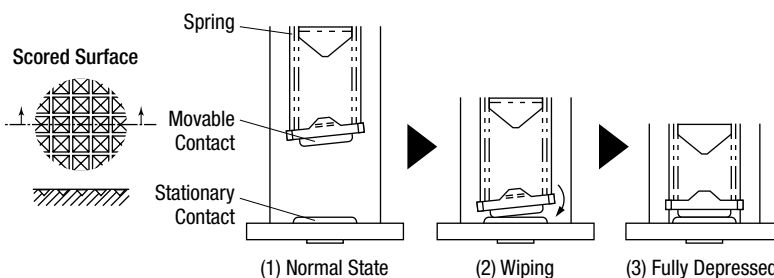


## Reliable

## Retained Locking Lever



- Heavy-Duty Rugged Construction
- Self-Cleaning Wiping-Action Contacts with Scored Contact Surfaces



## Safety



Integrated Finger-safe Terminal Cover  
Degree of Protection: IP20 (From panel front: IP65)

APEM

Switches &amp; Pilot Lights

Control Boxes

Emergency Stop Switches

Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays &amp; Sockets

Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator Interfaces

Sensors

AUTO-ID

Flush Silhouette

ø16

ø22

ø30

Miniature

Pilot Lights

HW

TW

YW



Download catalogs and CAD from <http://asia.idec.com/downloads>

# YW Series Switches & Pilot Lights

Space-saving, 10-mm-thick contact blocks. Removable operator.



## Contact Ratings (Contact Block)

| Rated Insulation Voltage |                        | 600V |      |       |      |
|--------------------------|------------------------|------|------|-------|------|
| Rated Thermal Current    |                        | 10A  |      |       |      |
| Operating Voltage        |                        | 24V  | 120V | 240V  | 380V |
| AC<br>50/60 Hz           | Resistive Load (AC-12) | 10A  | 10A  | 6A    | 2A   |
|                          | Inductive Load (AC-15) | 10A  | 6A   | 3A    | 1.9A |
| DC                       | Resistive Load (DC-12) | 8A   | 2.2A | 1.1A  | —    |
|                          | Inductive Load (DC-13) | 4A   | 1.1A | 0.55A | —    |

## LED Illuminated Unit Specifications

Pilot Light (removable lamp terminal type)

Illuminated Pushbutton

| Unit                                                                                 |                                                  |                |                   |          |                                                                                             | LED Lamp  |                |               |                                   |                                                                          |
|--------------------------------------------------------------------------------------|--------------------------------------------------|----------------|-------------------|----------|---------------------------------------------------------------------------------------------|-----------|----------------|---------------|-----------------------------------|--------------------------------------------------------------------------|
| Unit Type                                                                            | Input Type                                       | Rated Voltage  | Operating Voltage |          | Color Code                                                                                  | Lamp Base | Part No.       | Rated Voltage | Current Draw                      | Color                                                                    |
| Pilot Light<br>(removable<br>lamp terminal<br>type)<br><br>Illuminated<br>Pushbutton | Full Voltage                                     | 6V AC/DC       | 6V AC/DC          | ±10%     | A: amber<br>G: green<br>PW: pure white<br>R: red<br>S: blue<br>W: white (Note)<br>Y: yellow | BA9S/13   | LSED-6②        | 6V AC/DC      | 10mA (A, R, Y)<br>7mA (G, PW, S)  | A: amber<br>G: green<br>PW: pure white<br>R: red<br>S: blue<br>Y: yellow |
|                                                                                      |                                                  | 12V AC/DC      | 12V AC/DC         |          |                                                                                             |           | LSED-1②        | 12V AC/DC     | 14mA (A, R, Y)<br>13mA (G, PW, S) |                                                                          |
|                                                                                      |                                                  | 24V AC/DC      | 24V AC/DC         |          |                                                                                             |           | LSED-2②        | 24V AC/DC     | 14mA (A, R, Y)<br>13mA (G, PW, S) |                                                                          |
|                                                                                      |                                                  | 110V AC/DC     | 110V AC/DC        |          |                                                                                             |           | LSED-H②        | 110V AC/DC    | 5mA                               |                                                                          |
|                                                                                      |                                                  | 230/240V AC/DC | 207 to 250V AC/DC | LSED-M3② |                                                                                             |           | 230/240V AC/DC | 3mA           |                                   |                                                                          |
|                                                                                      | Transformer<br>(pilot light<br>only)<br>50/60 Hz | 100/110V AC    | 100/110V AC       | ±10%     |                                                                                             |           | LSED-6②        | 6V AC/DC      | 10mA (A, R, Y)<br>7mA (G, PW, S)  |                                                                          |
|                                                                                      |                                                  | 200/220V AC    | 200/220V AC       |          |                                                                                             |           |                |               |                                   |                                                                          |
|                                                                                      |                                                  | 115/120V AC    | 115/120V AC       |          |                                                                                             |           |                |               |                                   |                                                                          |
|                                                                                      |                                                  | 230/240V AC    | 207 to 250V AC    |          |                                                                                             |           |                |               |                                   |                                                                          |

Note: Yellow LED lamps are used for white illumination.

## Pilot Light (unibody type)

| Unit Type                  | Rated Voltage                    | Operating Voltage | Current Draw                         | Color Code     |
|----------------------------|----------------------------------|-------------------|--------------------------------------|----------------|
| Pilot Light (unibody type) | 6V AC/DC                         | 6V AC/DC          | 16mA (A, R, W, Y)<br>13mA (G, PW, S) | A: amber       |
|                            | 12V AC/DC                        | 12V AC/DC         |                                      | G: green       |
|                            | 24V AC/DC                        | 24V AC/DC         |                                      | PW: pure white |
|                            | 100/110V AC (50/60 Hz sine wave) | 100/110V AC       |                                      | R: red         |
|                            | 230/240V AC (50/60 Hz sine wave) | 230/240V AC       |                                      | S: blue        |
|                            |                                  |                   |                                      | W: white       |
|                            |                                  | 207 to 250V AC    | 20mA                                 | Y: yellow      |

## Incandescent Illuminated Unit Specifications

### Pilot Light (removable lamp terminal type)

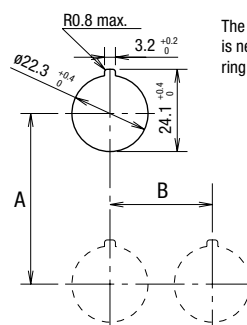
#### Illuminated Pushbutton

| Unit                                             |                                               |               |                   |                                                                    | Incandescent Lamp |          |           |
|--------------------------------------------------|-----------------------------------------------|---------------|-------------------|--------------------------------------------------------------------|-------------------|----------|-----------|
| Unit Type                                        | Input Type                                    | Rated Voltage | Operating Voltage | Color Code                                                         | Lamp Base         | Part No. | Rating    |
| Pilot Light<br>(removable lamp<br>terminal type) | Full Voltage                                  | 6V AC/DC      | 6V AC/DC          | A: amber<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow | BA9S/13           | LS-T6    | 1W (6.3V) |
|                                                  |                                               | 12V AC/DC     | 12V AC/DC         |                                                                    |                   | LS-T8    | 1W (18V)  |
|                                                  |                                               | 24V AC/DC     | 24V AC/DC         |                                                                    |                   | LS-T3    | 1W (30V)  |
| Illuminated<br>Pushbutton                        | Transformer<br>(pilot light only)<br>50/60 Hz | 100/110V AC   | 100/110V AC       |                                                                    |                   | LS-T6    | 1W (6.3V) |
|                                                  |                                               | 200/220V AC   | 200/220V AC       |                                                                    |                   |          |           |
|                                                  |                                               | 115/120V AC   | 115/120V AC       |                                                                    |                   |          |           |
|                                                  |                                               | 230/240V AC   | 207 to 250V AC    |                                                                    |                   |          |           |

## Specifications

|                                      |                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Conditions                 | Operating temperature: -20 to +55°C (no freezing)<br>Operating humidity: 45 to 85% RH (no condensation)<br>Storage temperature: -45 to +80°C<br>Storage humidity: 95% RH maximum                                                                                                                                                                                                         |
| Degree of Protection                 | From panel front: IP65 (IEC 60529)<br>Terminal: IP20 (IEC 60529)                                                                                                                                                                                                                                                                                                                         |
| Insulation Resistance                | 100 MΩ                                                                                                                                                                                                                                                                                                                                                                                   |
| Dielectric Strength                  | Contact block: 2,500V, 1 minute<br>Pilot light: 2,000V, 1 minute                                                                                                                                                                                                                                                                                                                         |
| Vibration Resistance                 | <Emergency stop switch><br>Operating extremes / Damage limits:<br>10 to 500 Hz, amplitude 0.35 mm, acceleration 50 m/s <sup>2</sup> (5G)<br><Pushbutton, pilot light, illuminated pushbutton, selector switch, and key selector switch><br>Operating extremes: 5 to 55 Hz, amplitude 0.5 mm<br>Damage limits: 30 Hz, amplitude 1.5 mm                                                    |
| Shock Resistance                     | <Emergency stop switch><br>Operating extremes: 150 m/s <sup>2</sup> (10G)<br>Damage limits: 1,000 m/s <sup>2</sup> (100G)<br><Pushbutton, pilot light, illuminated pushbutton, selector switch, and key selector switch><br>Operating extremes: 100 m/s <sup>2</sup> (10G)<br>Damage limits: 1,000 m/s <sup>2</sup> (100G)                                                               |
| Mechanical Life (minimum operations) | <Emergency stop switch><br>250,000 (single contact block)<br><Pushbutton and illuminated pushbutton><br>Momentary: 5,000,000 (single contact block)<br>1,000,000 (double contact block)<br>Maintained: 250,000 (single contact block)<br>100,000 (double contact block)<br><Selector switch and key selector switch><br>250,000 (single contact block)<br>100,000 (double contact block) |
| Electrical Life (minimum operations) | <Emergency stop switch><br>100,000 (single contact block)<br><Pushbutton, selector switch, and key selector switch><br>100,000 (single contact block)<br>50,000 (double contact block)                                                                                                                                                                                                   |

## Mounting Hole Layout



The 3.2-mm-wide key recess is necessary when the anti-rotation ring is used.

| Unit                                       | A (mm)   | B (mm)  |
|--------------------------------------------|----------|---------|
| Emergency stop switch                      | 50 min.  | 50 min. |
| Pushbutton                                 | 50 min.  | 30 min. |
| Selector switch                            |          |         |
| Key selector switch                        |          |         |
| Mushroom pushbutton                        | 50 min.  | 40 min. |
| Pilot light (with removable lamp terminal) | 30 min.* | 30 min. |
| Pilot light (unibody)                      | 50 min.  | 30 min. |

\* Keep a minimum spacing of 50 mm when using a lamp of over 1W.

APEM

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AUTO-ID

Flush Silhouette

ø16

ø22

ø30

Miniature

Pilot Lights

HW

TW

YW



## ø22 YW Series Emergency Stop Switches

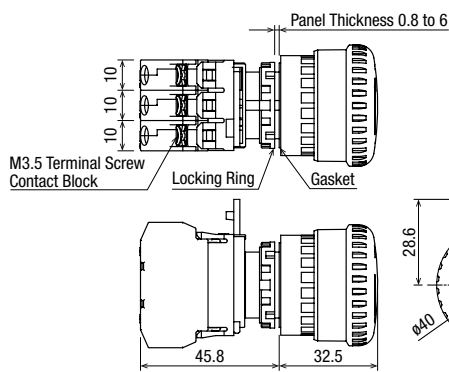
## Non-illuminated Emergency Stop Switches (Pushlock Pull/Turn Reset)

Package Quantity: 1

| Style                                                                             | Contact | Contact Block Mounting Position |    |    | Part No.    | Button Color Code |
|-----------------------------------------------------------------------------------|---------|---------------------------------|----|----|-------------|-------------------|
|                                                                                   |         | 1                               | 2  | 3  |             |                   |
|  | 1NC     | —                               | —  | NC | YW1B-V4E01R | Red only          |
|                                                                                   | 2NC     | NC                              | —  | NC | YW1B-V4E02R |                   |
|                                                                                   | 3NC     | NC                              | NC | NC | YW1B-V4E03R |                   |
|                                                                                   | 1NO-1NC | NO                              | —  | NC | YW1B-V4E11R |                   |
|                                                                                   | 1NO-2NC | NO                              | NC | NC | YW1B-V4E12R |                   |
|                                                                                   | 2NO-1NC | NO                              | NC | NO | YW1B-V4E21R |                   |

- When pressed, the button is locked in the depressed position, and is reset when either pulled or turned clockwise.

## Dimensions



Contact Block Mounting Position



## Illuminated Emergency Stop Switches (Pushlock Pull/Turn Reset)

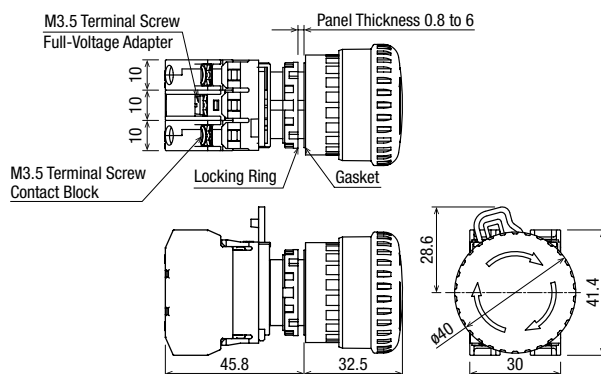
Package Quantity: 1

| Style                                                                                                         | Lamp         | Contacts | Contact Block Mounting Position |    |    | Part No.      | ③ Operating Voltage Code                                                           | Lens Color Code |
|---------------------------------------------------------------------------------------------------------------|--------------|----------|---------------------------------|----|----|---------------|------------------------------------------------------------------------------------|-----------------|
|                                                                                                               |              |          | 1                               | 2  | 3  |               |                                                                                    |                 |
| <div>ø40mm Mushroom</div>  | Without Lamp | 1NC      | —                               | FA | NC | YW1L-V4E01Q0R | 0: without lamp<br>250V AC/DC max.                                                 | Red only        |
|                                                                                                               |              | 2NC      | NC                              | FA | NC | YW1L-V4E02Q0R |                                                                                    |                 |
|                                                                                                               |              | 1NO-1NC  | NO                              | FA | NC | YW1L-V4E11Q0R |                                                                                    |                 |
|                                                                                                               | LED          | 1NC      | —                               | FA | NC | YW1L-V4E01Q③R | 2: 6V AC/DC<br>3: 12V AC/DC<br>4: 24V AC/DC<br>H: 110V AC/DC<br>M3: 230/240V AC/DC |                 |
|                                                                                                               |              | 2NC      | NC                              | FA | NC | YW1L-V4E02Q③R |                                                                                    |                 |
|                                                                                                               |              | 1NO-1NC  | NO                              | FA | NC | YW1L-V4E11Q③R |                                                                                    |                 |
|                                                                                                               | Incandescent | 1NC      | —                               | FA | NC | YW1L-V4E01Q③R | 5: 6V AC/DC<br>6: 12V AC/DC<br>7: 24V AC/DC                                        |                 |
|                                                                                                               |              | 2NC      | NC                              | FA | NC | YW1L-V4E02Q③R |                                                                                    |                 |
|                                                                                                               |              | 1NO-1NC  | NO                              | FA | NC | YW1L-V4E11Q③R |                                                                                    |                 |

- Specify an operating voltage code in place of ③ in the Part No.
- When pressed, the button is locked in the depressed position, and is reset when either pulled or turned clockwise.

FA: Full voltage adapter

## Dimensions



Contact Block Mounting Position



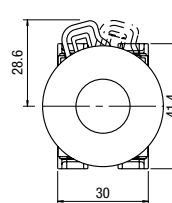
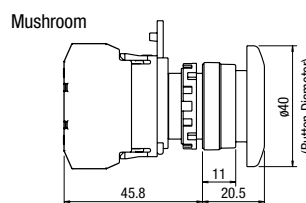
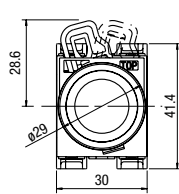
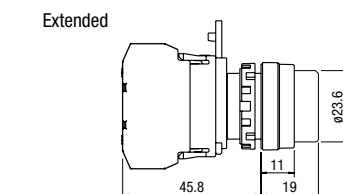
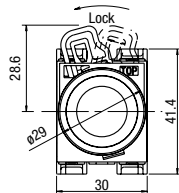
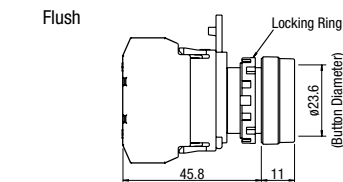
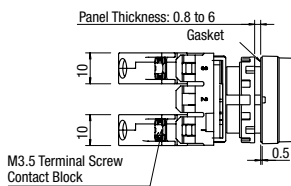
Pushbuttons with Plastic Bezel (Pushlock Pull/Turn Reset)

Package Quantity: 1

| Shape                                                                                                        | Operation  | Contact | Contact Block Mounting Position |    |    | Part No.    | ① Button Color Code                                                |
|--------------------------------------------------------------------------------------------------------------|------------|---------|---------------------------------|----|----|-------------|--------------------------------------------------------------------|
|                                                                                                              |            |         | 1                               | 2  | 3  |             |                                                                    |
| <b>Flush</b><br>            | Momentary  | 1NO     | NO                              | —  | —  | YW1B-M1E10① | B: black<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow |
|                                                                                                              |            | 1NC     | —                               | —  | NC | YW1B-M1E01① |                                                                    |
|                                                                                                              |            | 2NO     | NO                              | —  | NO | YW1B-M1E20① |                                                                    |
|                                                                                                              |            | 2NC     | NC                              | —  | NC | YW1B-M1E02① |                                                                    |
|                                                                                                              |            | 1NO-1NC | NO                              | —  | NC | YW1B-M1E11① |                                                                    |
|                                                                                                              |            | 3NO     | NO                              | NO | NO | YW1B-M1E30① |                                                                    |
|                                                                                                              |            | 3NC     | NC                              | NC | NC | YW1B-M1E03① |                                                                    |
|                                                                                                              |            | 2NO-1NC | NO                              | NC | NO | YW1B-M1E21① |                                                                    |
|                                                                                                              |            | 1NO-2NC | NO                              | NC | NC | YW1B-M1E12① |                                                                    |
|                                                                                                              | Maintained | 1NO     | NO                              | —  | —  | YW1B-A1E10① |                                                                    |
|                                                                                                              |            | 1NC     | —                               | —  | NC | YW1B-A1E01① |                                                                    |
|                                                                                                              |            | 2NO     | NO                              | —  | NO | YW1B-A1E20① |                                                                    |
|                                                                                                              |            | 2NC     | NC                              | —  | NC | YW1B-A1E02① |                                                                    |
|                                                                                                              |            | 1NO-1NC | NO                              | —  | NC | YW1B-A1E11① |                                                                    |
|                                                                                                              |            |         |                                 |    |    |             |                                                                    |
| <b>Extended</b><br>         | Momentary  | 1NO     | NO                              | —  | —  | YW1B-M2E10① | B: black<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow |
|                                                                                                              |            | 1NC     | —                               | —  | NC | YW1B-M2E01① |                                                                    |
|                                                                                                              |            | 2NO     | NO                              | —  | NO | YW1B-M2E20① |                                                                    |
|                                                                                                              |            | 2NC     | NC                              | —  | NC | YW1B-M2E02① |                                                                    |
|                                                                                                              |            | 1NO-1NC | NO                              | —  | NC | YW1B-M2E11① |                                                                    |
|                                                                                                              | Maintained | 1NO     | NO                              | —  | —  | YW1B-A2E10① |                                                                    |
|                                                                                                              |            | 1NC     | —                               | —  | NC | YW1B-A2E01① |                                                                    |
|                                                                                                              |            | 2NO     | NO                              | —  | NO | YW1B-A2E20① |                                                                    |
|                                                                                                              |            | 2NC     | NC                              | —  | NC | YW1B-A2E02① |                                                                    |
|                                                                                                              |            | 1NO-1NC | NO                              | —  | NC | YW1B-A2E11① |                                                                    |
|                                                                                                              |            |         |                                 |    |    |             |                                                                    |
|                                                                                                              |            |         |                                 |    |    |             |                                                                    |
| <b>Mushroom ø40mm</b><br> | Momentary  | 1NO     | NO                              | —  | —  | YW1B-M4E10① | B: black<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow |
|                                                                                                              |            | 1NC     | —                               | —  | NC | YW1B-M4E01① |                                                                    |
|                                                                                                              |            | 2NO     | NO                              | —  | NO | YW1B-M4E20① |                                                                    |
|                                                                                                              |            | 2NC     | NC                              | —  | NC | YW1B-M4E02① |                                                                    |
|                                                                                                              |            | 1NO-1NC | NO                              | —  | NC | YW1B-M4E11① |                                                                    |
|                                                                                                              | Maintained | 1NO     | NO                              | —  | —  | YW1B-A4E10① |                                                                    |
|                                                                                                              |            | 1NC     | —                               | —  | NC | YW1B-A4E01① |                                                                    |
|                                                                                                              |            | 2NO     | NO                              | —  | NO | YW1B-A4E20① |                                                                    |
|                                                                                                              |            | 2NC     | NC                              | —  | NC | YW1B-A4E02① |                                                                    |
|                                                                                                              |            | 1NO-1NC | NO                              | —  | NC | YW1B-A4E11① |                                                                    |

Note: Specify a button color code in place of ① in the Part No.

Dimensions



All dimensions in mm.

Contact Block Mounting Position



Download catalogs and CAD from <http://asia.idec.com/downloads>

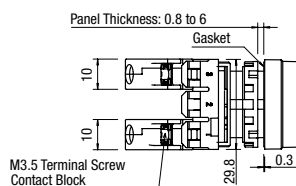
## Pushbuttons with Metal Bezel

Package Quantity: 1

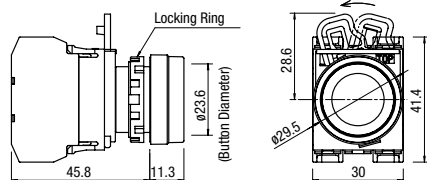
| Shape                                                                                                 | Operation  | Contact | Contact Block Mounting Position |    |    | Part No.    | ① Button Color Code                                                |
|-------------------------------------------------------------------------------------------------------|------------|---------|---------------------------------|----|----|-------------|--------------------------------------------------------------------|
|                                                                                                       |            |         | 1                               | 2  | 3  |             |                                                                    |
| Flush<br>            | Momentary  | 1NO     | NO                              | —  | —  | YW4B-M1E10① | B: black<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow |
|                                                                                                       |            | 1NC     | —                               | —  | NC | YW4B-M1E01① |                                                                    |
|                                                                                                       |            | 2NO     | NO                              | —  | NO | YW4B-M1E20① |                                                                    |
|                                                                                                       |            | 2NC     | NC                              | —  | NC | YW4B-M1E02① |                                                                    |
|                                                                                                       |            | 1NO-1NC | NO                              | —  | NC | YW4B-M1E11① |                                                                    |
|                                                                                                       |            | 3NO     | NO                              | NO | NO | YW4B-M1E30① |                                                                    |
|                                                                                                       |            | 3NC     | NC                              | NC | NC | YW4B-M1E03① |                                                                    |
|                                                                                                       |            | 2NO-1NC | NO                              | NC | NO | YW4B-M1E21① |                                                                    |
|                                                                                                       |            | 1NO-2NC | NO                              | NC | NC | YW4B-M1E12① |                                                                    |
|                                                                                                       | Maintained | 1NO     | NO                              | —  | —  | YW4B-A1E10① |                                                                    |
|                                                                                                       |            | 1NC     | —                               | —  | NC | YW4B-A1E01① |                                                                    |
|                                                                                                       |            | 2NO     | NO                              | —  | NO | YW4B-A1E20① |                                                                    |
|                                                                                                       |            | 2NC     | NC                              | —  | NC | YW4B-A1E02① |                                                                    |
|                                                                                                       |            | 1NO-1NC | NO                              | —  | NC | YW4B-A1E11① |                                                                    |
|                                                                                                       |            |         |                                 |    |    |             |                                                                    |
| Extended<br>         | Momentary  | 1NO     | NO                              | —  | —  | YW4B-M2E10① | B: black<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow |
|                                                                                                       |            | 1NC     | —                               | —  | NC | YW4B-M2E01① |                                                                    |
|                                                                                                       |            | 2NO     | NO                              | —  | NO | YW4B-M2E20① |                                                                    |
|                                                                                                       |            | 2NC     | NC                              | —  | NC | YW4B-M2E02① |                                                                    |
|                                                                                                       |            | 1NO-1NC | NO                              | —  | NC | YW4B-M2E11① |                                                                    |
|                                                                                                       | Maintained | 1NO     | NO                              | —  | —  | YW4B-A2E10① |                                                                    |
|                                                                                                       |            | 1NC     | —                               | —  | NC | YW4B-A2E01① |                                                                    |
|                                                                                                       |            | 2NO     | NO                              | —  | NO | YW4B-A2E20① |                                                                    |
|                                                                                                       |            | 2NC     | NC                              | —  | NC | YW4B-A2E02① |                                                                    |
|                                                                                                       |            | 1NO-1NC | NO                              | —  | NC | YW4B-A2E11① |                                                                    |
|                                                                                                       |            |         |                                 |    |    |             |                                                                    |
|                                                                                                       |            |         |                                 |    |    |             |                                                                    |
| Mushroom ø40mm<br> | Momentary  | 1NO     | NO                              | —  | —  | YW4B-M4E10① | B: black<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow |
|                                                                                                       |            | 1NC     | —                               | —  | NC | YW4B-M4E01① |                                                                    |
|                                                                                                       |            | 2NO     | NO                              | —  | NO | YW4B-M4E20① |                                                                    |
|                                                                                                       |            | 2NC     | NC                              | —  | NC | YW4B-M4E02① |                                                                    |
|                                                                                                       |            | 1NO-1NC | NO                              | —  | NC | YW4B-M4E11① |                                                                    |
|                                                                                                       | Maintained | 1NO     | NO                              | —  | —  | YW4B-A4E10① |                                                                    |
|                                                                                                       |            | 1NC     | —                               | —  | NC | YW4B-A4E01① |                                                                    |
|                                                                                                       |            | 2NO     | NO                              | —  | NO | YW4B-A4E20① |                                                                    |
|                                                                                                       |            | 2NC     | NC                              | —  | NC | YW4B-A4E02① |                                                                    |
|                                                                                                       |            | 1NO-1NC | NO                              | —  | NC | YW4B-A4E11① |                                                                    |

Note: Specify a button color code in place of ① in the Part No.

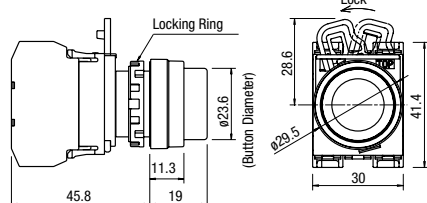
## Dimensions



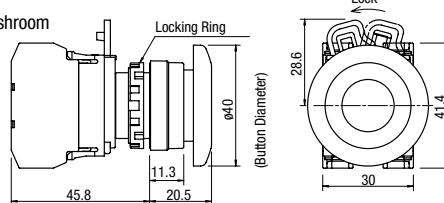
Flush



Extended



Mushroom



Contact Block Mounting Position



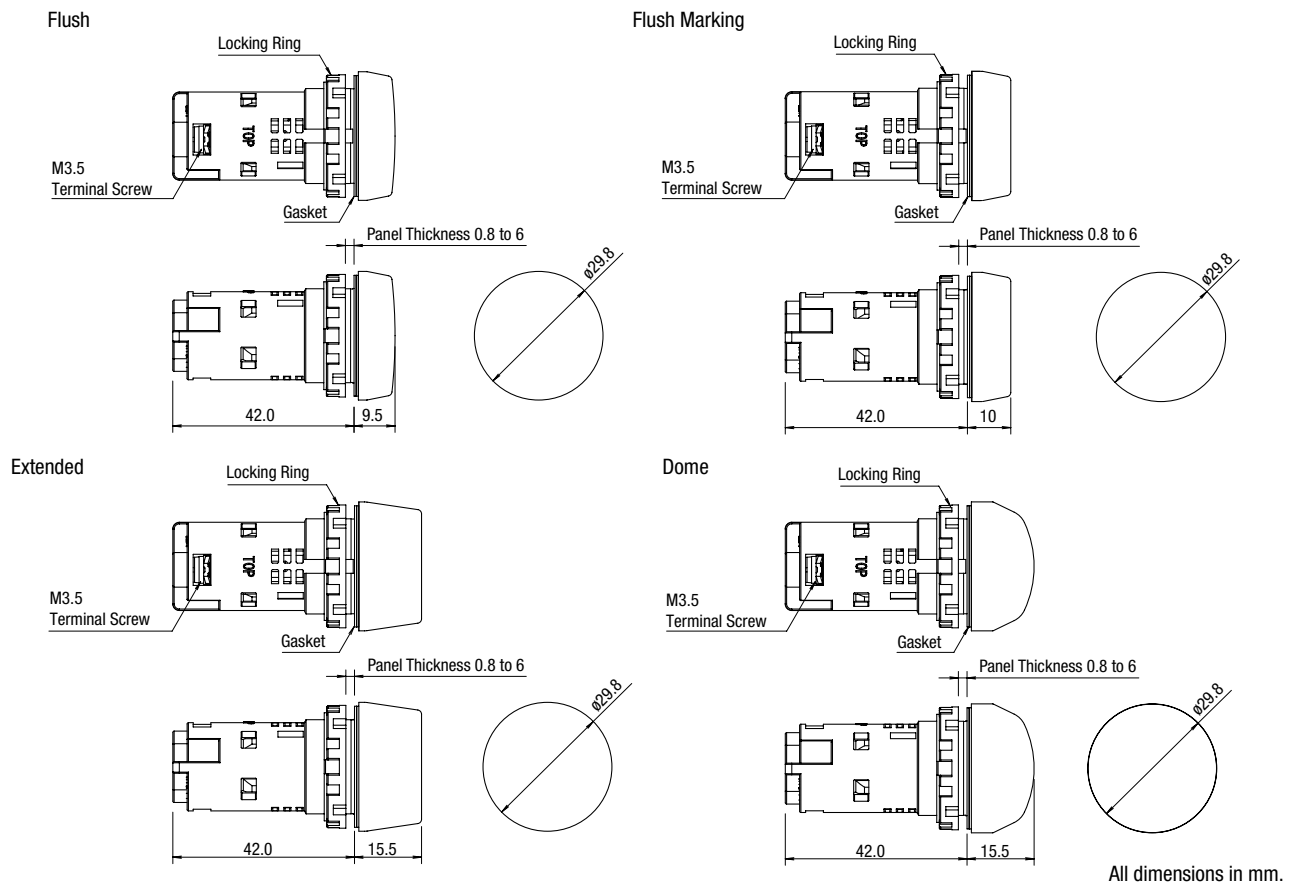
All dimensions in mm.

## Pilot Lights (Unibody)

Package Quantity: 1

| Shape                                                                                                           | Lamp | Operating Voltage | Part No.     | ② Lens Color Code                                                                    |
|-----------------------------------------------------------------------------------------------------------------|------|-------------------|--------------|--------------------------------------------------------------------------------------|
| Flush Full Voltage<br>         | LED  | 6V AC/DC          | YW1P-1UQ2②   | A: amber<br>G: green<br>PW: pure white<br>R: red<br>S: blue<br>W: white<br>Y: yellow |
|                                                                                                                 |      | 12V AC/DC         | YW1P-1UQ3②   |                                                                                      |
|                                                                                                                 |      | 24V AC/DC         | YW1P-1UQ4②   |                                                                                      |
|                                                                                                                 |      | 100/110V AC       | YW1P-1UQH②   |                                                                                      |
|                                                                                                                 |      | 230/240V AC       | YW1P-1UQM3②  |                                                                                      |
| Flush Marking Full Voltage<br> | LED  | 6V AC/DC          | YW1P-1BUQ2②  |                                                                                      |
|                                                                                                                 |      | 12V AC/DC         | YW1P-1BUQ3②  |                                                                                      |
|                                                                                                                 |      | 24V AC/DC         | YW1P-1BUQ4②  |                                                                                      |
|                                                                                                                 |      | 100/110V AC       | YW1P-1BUQH②  |                                                                                      |
|                                                                                                                 |      | 230/240V AC       | YW1P-1BUQM3② |                                                                                      |
| Extended Full Voltage<br>      | LED  | 6V AC/DC          | YW1P-2TUQ2②  |                                                                                      |
|                                                                                                                 |      | 12V AC/DC         | YW1P-2TUQ3②  |                                                                                      |
|                                                                                                                 |      | 24V AC/DC         | YW1P-2TUQ4②  |                                                                                      |
|                                                                                                                 |      | 100/110V AC       | YW1P-2TUQH②  |                                                                                      |
|                                                                                                                 |      | 230/240V AC       | YW1P-2TUQM3② |                                                                                      |
| Dome Full Voltage<br>         | LED  | 6V AC/DC          | YW1P-2UQ2②   |                                                                                      |
|                                                                                                                 |      | 12V AC/DC         | YW1P-2UQ3②   |                                                                                      |
|                                                                                                                 |      | 24V AC/DC         | YW1P-2UQ4②   |                                                                                      |
|                                                                                                                 |      | 100/110V AC       | YW1P-2UQH②   |                                                                                      |
|                                                                                                                 |      | 230/240V AC       | YW1P-2UQM3②  |                                                                                      |

## Dimensions



APEM

Switches & Pilot Lights

Control Boxes

Emergency Stop Switches

Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator Interfaces

Sensors

AUTO-ID

Flush Silhouette

ø16

ø22

ø30

Miniature

Pilot Lights

HW

TW

YW



Download catalogs and CAD from <http://asia.idec.com/downloads>

## ø22 YW Series Switches &amp; Pilot Lights

## Pilot Lights (with Removable Lamp Terminal)

Package Quantity: 1

| Shape                                                                                                                    | Lamp         | Operating Voltage | Part No.     | ② Lens Color Code                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|--------------|----------------------------------------------------------------------------------------------------------------------|
| Flush<br>Full Voltage<br><br>           | Without Lamp | 250V AC/DC max.   | YW1P-1EQ0②   | A (amber), C (clear),<br>G (green), R (red), S (blue),<br>W (white), Y (yellow)                                      |
|                                                                                                                          | LED          | 6V AC/DC          | YW1P-1EQ2②   | A (amber), G (green),<br>PW (pure white), R (red),<br>S (blue), W (white), Y (yellow)<br>Built-in LED lamp: LSED-③②  |
|                                                                                                                          |              | 12V AC/DC         | YW1P-1EQ3②   |                                                                                                                      |
|                                                                                                                          |              | 24V AC/DC         | YW1P-1EQ4②   |                                                                                                                      |
|                                                                                                                          |              | 110V AC/DC        | YW1P-1EQH②   |                                                                                                                      |
|                                                                                                                          |              | 230/240V AC/DC    | YW1P-1EQM3②  |                                                                                                                      |
|                                                                                                                          | Incandescent | 6V AC/DC          | YW1P-1EQ5②   | A (amber), C (clear),<br>G (green), R (red), S (blue),<br>W (white), Y (yellow)<br>Built-in incandescent lamp: LS-T③ |
|                                                                                                                          |              | 12V AC/DC         | YW1P-1EQ6②   |                                                                                                                      |
|                                                                                                                          |              | 24V AC/DC         | YW1P-1EQ7②   |                                                                                                                      |
| Flush<br>Transformer<br><br>           | LED          | 100/110V AC       | YW1P-1EH2②   | A (amber), G (green),<br>PW (pure white), R (red),<br>S (blue), W (white), Y (yellow)<br>Built-in LED lamp: LSED-6②  |
|                                                                                                                          |              | 200/220V AC       | YW1P-1EM2②   |                                                                                                                      |
|                                                                                                                          |              | 115/120V AC       | YW1P-1EH22②  |                                                                                                                      |
|                                                                                                                          |              | 230/240V AC       | YW1P-1EM42②  |                                                                                                                      |
|                                                                                                                          | Incandescent | 100/110V AC       | YW1P-1EH5②   | A (amber), C (clear),<br>G (green), R (red), S (blue),<br>W (white), Y (yellow)<br>Built-in incandescent lamp: LS-T6 |
|                                                                                                                          |              | 200/220V AC       | YW1P-1EM5②   |                                                                                                                      |
|                                                                                                                          |              | 115/120V AC       | YW1P-1EH25②  |                                                                                                                      |
|                                                                                                                          |              | 230/240V AC       | YW1P-1EM45②  |                                                                                                                      |
| Flush Marking<br>Full Voltage<br><br> | Without Lamp | 250V AC/DC max.   | YW1P-1BEQ0②  | A (amber), G (green), R (red),<br>S (blue), W (white), Y (yellow)                                                    |
|                                                                                                                          | LED          | 6V AC/DC          | YW1P-1BEQ2②  | A (amber), G (green),<br>PW (pure white), R (red),<br>S (blue), W (white), Y (yellow)<br>Built-in LED lamp: LSED-③②  |
|                                                                                                                          |              | 12V AC/DC         | YW1P-1BEQ3②  |                                                                                                                      |
|                                                                                                                          |              | 24V AC/DC         | YW1P-1BEQ4②  |                                                                                                                      |
|                                                                                                                          |              | 110V AC/DC        | YW1P-1BEQH②  |                                                                                                                      |
|                                                                                                                          |              | 230/240V AC/DC    | YW1P-1BEQM3② |                                                                                                                      |
|                                                                                                                          | Incandescent | 6V AC/DC          | YW1P-1BEQ5②  | A (amber), G (green), R (red),<br>S (blue), W (white), Y (yellow)<br>Built-in incandescent lamp: LS-T③               |
|                                                                                                                          |              | 12V AC/DC         | YW1P-1BEQ6②  |                                                                                                                      |
|                                                                                                                          |              | 24V AC/DC         | YW1P-1BEQ7②  |                                                                                                                      |
| Flush Marking<br>Transformer<br><br>  | LED          | 100/110V AC       | YW1P-1BEH2②  | A (amber), G (green),<br>PW (pure white), R (red),<br>S (blue), W (white), Y (yellow)<br>Built-in LED lamp: LSED-6②  |
|                                                                                                                          |              | 200/220V AC       | YW1P-1BEM2②  |                                                                                                                      |
|                                                                                                                          |              | 115/120V AC       | YW1P-1BEH22② |                                                                                                                      |
|                                                                                                                          |              | 230/240V AC       | YW1P-1BEM42② |                                                                                                                      |
|                                                                                                                          | Incandescent | 100/110V AC       | YW1P-1BEH5②  | A (amber), G (green), R (red),<br>S (blue), W (white), Y (yellow)<br>Built-in incandescent lamp: LS-T6               |
|                                                                                                                          |              | 200/220V AC       | YW1P-1BEM5②  |                                                                                                                      |
|                                                                                                                          |              | 115/120V AC       | YW1P-1BEH25② |                                                                                                                      |
|                                                                                                                          |              | 230/240V AC       | YW1P-1BEM45② |                                                                                                                      |

Note: Specify a lens color code in place of ② in the Part No.

Clear lenses are used for PW (pure white) illumination of pilot lights.

Pilot Lights (with Removable Lamp Terminal)

Package Quantity: 1

| Shape                                                                                                      | Lamp         | Operating Voltage | Part No.     | ② Lens Color Code                                                                                                    |
|------------------------------------------------------------------------------------------------------------|--------------|-------------------|--------------|----------------------------------------------------------------------------------------------------------------------|
| Extended Full Voltage<br> | Without Lamp | 250V AC/DC max.   | YW1P-2TEQ0②  | A (amber), C (clear),<br>G (green), R (red), S (blue),<br>W (white), Y (yellow)                                      |
|                                                                                                            | LED          | 6V AC/DC          | YW1P-2TEQ2②  | A (amber), G (green),<br>PW (pure white), R (red),<br>S (blue), W (white), Y (yellow)<br>Built-in LED lamp: LSED-③②  |
|                                                                                                            |              | 12V AC/DC         | YW1P-2TEQ3②  |                                                                                                                      |
|                                                                                                            |              | 24V AC/DC         | YW1P-2TEQ4②  |                                                                                                                      |
|                                                                                                            |              | 110V AC/DC        | YW1P-2TEQH②  |                                                                                                                      |
|                                                                                                            |              | 230/240V AC/DC    | YW1P-2TEQM3② |                                                                                                                      |
|                                                                                                            | Incandescent | 6V AC/DC          | YW1P-2TEQ5②  | A (amber), C (clear),<br>G (green), R (red), S (blue),<br>W (white), Y (yellow)<br>Built-in incandescent lamp: LS-T③ |
|                                                                                                            |              | 12V AC/DC         | YW1P-2TEQ6②  |                                                                                                                      |
|                                                                                                            |              | 24V AC/DC         | YW1P-2TEQ7②  |                                                                                                                      |
| Extended Transformer<br> | LED          | 100/110V AC       | YW1P-2TEH2②  | A (amber), G (green),<br>PW (pure white), R (red),<br>S (blue), W (white), Y (yellow)<br>Built-in LED lamp: LSED-6②  |
|                                                                                                            |              | 200/220V AC       | YW1P-2TEM2②  |                                                                                                                      |
|                                                                                                            |              | 115/120V AC       | YW1P-2TEH22② |                                                                                                                      |
|                                                                                                            |              | 230/240V AC       | YW1P-2TEM42② |                                                                                                                      |
|                                                                                                            | Incandescent | 100/110V AC       | YW1P-2TEH5②  | A (amber), C (clear),<br>G (green), R (red), S (blue),<br>W (white), Y (yellow)<br>Built-in incandescent lamp: LS-T6 |
|                                                                                                            |              | 200/220V AC       | YW1P-2TEM5②  |                                                                                                                      |
|                                                                                                            |              | 115/120V AC       | YW1P-2TEH25② |                                                                                                                      |
|                                                                                                            |              | 230/240V AC       | YW1P-2TEM45② |                                                                                                                      |
| Dome Full Voltage<br>   | Without Lamp | 250V AC/DC max.   | YW1P-2EQ0②   | A (amber), C (clear),<br>G (green), R (red), S (blue),<br>W (white), Y (yellow)                                      |
|                                                                                                            | LED          | 6V AC/DC          | YW1P-2EQ2②   | A (amber), G (green),<br>PW (pure white), R (red),<br>S (blue), W (white), Y (yellow)<br>Built-in LED lamp: LSED-③②  |
|                                                                                                            |              | 12V AC/DC         | YW1P-2EQ3②   |                                                                                                                      |
|                                                                                                            |              | 24V AC/DC         | YW1P-2EQ4②   |                                                                                                                      |
|                                                                                                            |              | 110V AC/DC        | YW1P-2EQH②   |                                                                                                                      |
|                                                                                                            |              | 230/240V AC/DC    | YW1P-2EQM3②  |                                                                                                                      |
|                                                                                                            | Incandescent | 6V AC/DC          | YW1P-2EQ5②   | A (amber), C (clear),<br>G (green), R (red), S (blue),<br>W (white), Y (yellow)<br>Built-in incandescent lamp: LS-T③ |
|                                                                                                            |              | 12V AC/DC         | YW1P-2EQ6②   |                                                                                                                      |
|                                                                                                            |              | 24V AC/DC         | YW1P-2EQ7②   |                                                                                                                      |
| Dome Transformer<br>    | LED          | 100/110V AC       | YW1P-2EH2②   | A (amber), G (green),<br>PW (pure white), R (red),<br>S (blue), W (white), Y (yellow)<br>Built-in LED lamp: LSED-6②  |
|                                                                                                            |              | 200/220V AC       | YW1P-2EM2②   |                                                                                                                      |
|                                                                                                            |              | 115/120V AC       | YW1P-2EH22②  |                                                                                                                      |
|                                                                                                            |              | 230/240V AC       | YW1P-2EM42②  |                                                                                                                      |
|                                                                                                            | Incandescent | 100/110V AC       | YW1P-2EH5②   | A (amber), C (clear),<br>G (green), R (red), S (blue),<br>W (white), Y (yellow)<br>Built-in incandescent lamp: LS-T6 |
|                                                                                                            |              | 200/220V AC       | YW1P-2EM5②   |                                                                                                                      |
|                                                                                                            |              | 115/120V AC       | YW1P-2EH25②  |                                                                                                                      |
|                                                                                                            |              | 230/240V AC       | YW1P-2EM45②  |                                                                                                                      |

Note: Specify a lens color code in place of ② in the Part No.  
Clear lenses are used for PW (pure white) illumination of pilot lights.

APEM

Switches & Pilot Lights

Control Boxes

Emergency Stop Switches

Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator Interfaces

Sensors

AUTO-ID

Flush Silhouette

ø16

ø22

ø30

Miniature

Pilot Lights

HW

TW

YW



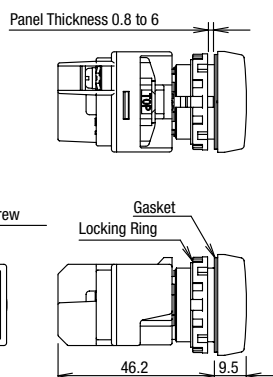
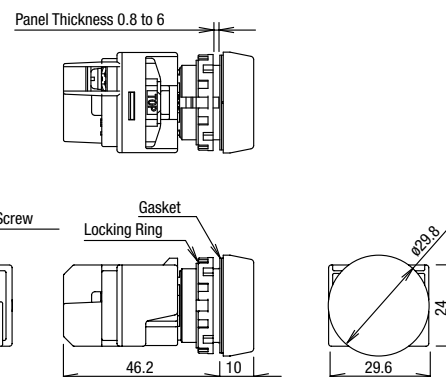
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## ø22 YW Series Switches &amp; Pilot Lights

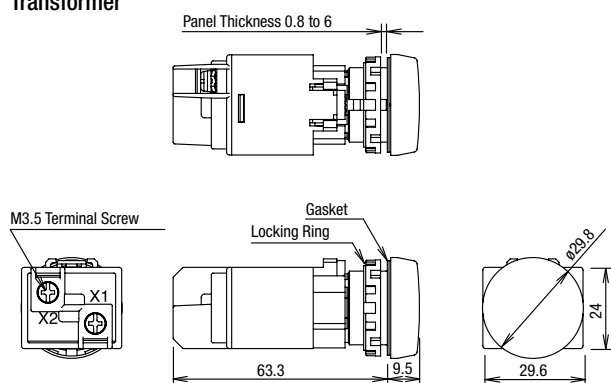
## Dimensions

All dimensions in mm

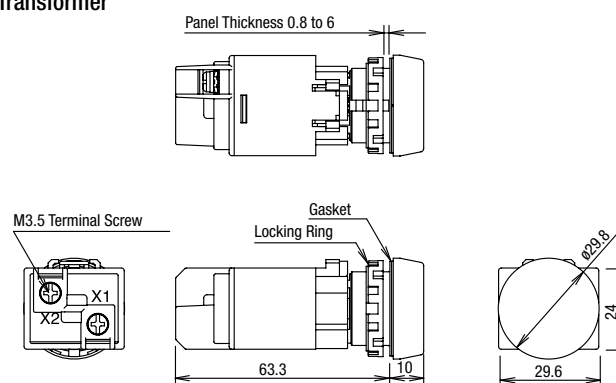
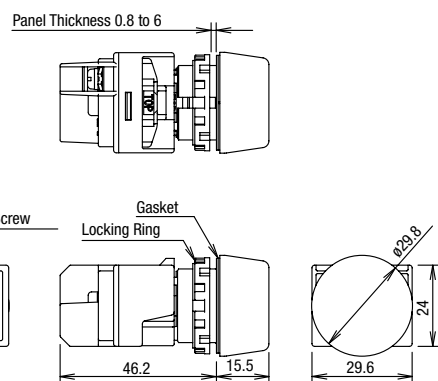
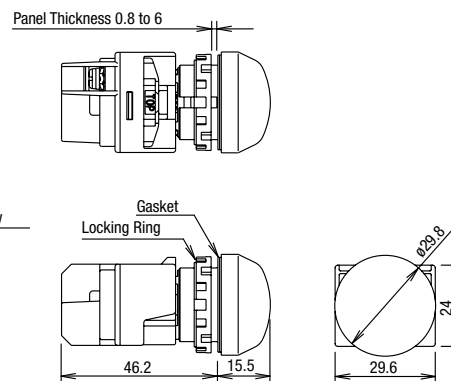
## Pilot Lights (with Removable Lamp Terminal)

Flush  
Full VoltageFlush Marking  
Full Voltage

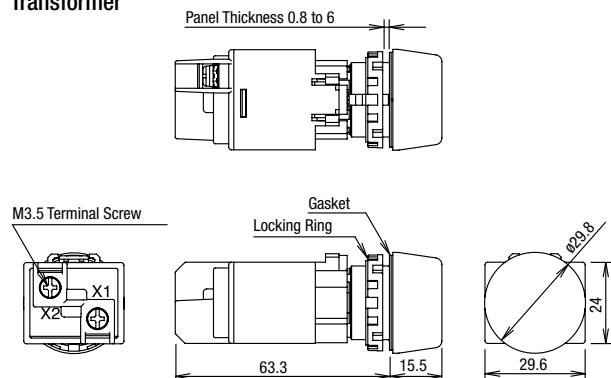
## Transformer



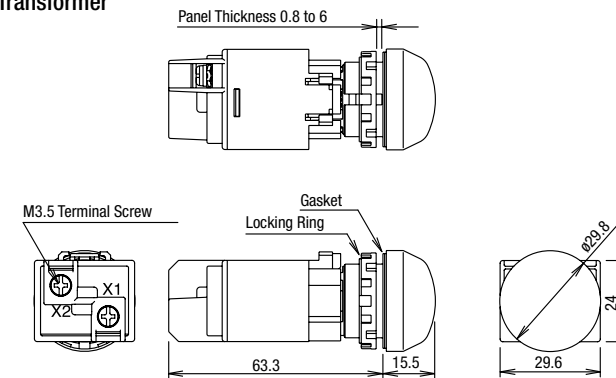
## Transformer

Extended  
Full VoltageDome  
Full Voltage

## Transformer



## Transformer



## Illuminated Pushbuttons with Plastic Bezel

Package Quantity: 1

| Shape                                                                                                            | Lamp         | Operation  | Contact | Contact Block Mounting Position |    |    | Part No.       | ③ Operating Voltage Code                                                           | ② Lens Color Code                                                                                                  |
|------------------------------------------------------------------------------------------------------------------|--------------|------------|---------|---------------------------------|----|----|----------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
|                                                                                                                  |              |            |         | 1                               | 2  | 3  |                |                                                                                    |                                                                                                                    |
| Extended<br>                    | Without Lamp | Momentary  | 1NO     | NO                              | FA | —  | YW1L-M2E10Q0②  | 0: without lamp<br>250V AC/DC max.                                                 | A: amber<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow                                                 |
|                                                                                                                  |              |            | 1NC     | —                               | FA | NC | YW1L-M2E01Q0②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NO     | NO                              | FA | NO | YW1L-M2E20Q0②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NC     | NC                              | FA | NC | YW1L-M2E02Q0②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              | Maintained | 1NO-1NC | NO                              | FA | NC | YW1L-M2E11Q0②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 1NO     | NO                              | FA | —  | YW1L-A2E10Q0②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 1NC     | —                               | FA | NC | YW1L-A2E01Q0②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NO     | NO                              | FA | NO | YW1L-A2E20Q0②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NC     | NC                              | FA | NC | YW1L-A2E02Q0②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 1NO-1NC | NO                              | FA | NC | YW1L-A2E11Q0②  |                                                                                    |                                                                                                                    |
|                                                                                                                  | LED          | Momentary  | 1NO     | NO                              | FA | —  | YW1L-M2E10Q③②  | 2: 6V AC/DC<br>3: 12V AC/DC<br>4: 24V AC/DC<br>H: 110V AC/DC<br>M3: 230/240V AC/DC | A: amber<br>G: green<br>PW: pure white<br>R: red<br>S: blue<br>W: white<br>Y: yellow<br>Built-in LED lamp: LSED-③② |
|                                                                                                                  |              |            | 1NC     | —                               | FA | NC | YW1L-M2E01Q③②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NO     | NO                              | FA | NO | YW1L-M2E20Q③②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NC     | NC                              | FA | NC | YW1L-M2E02Q③②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              | Maintained | 1NO-1NC | NO                              | FA | NC | YW1L-M2E11Q③②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 1NO     | NO                              | FA | —  | YW1L-A2E10Q③②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 1NC     | —                               | FA | NC | YW1L-A2E01Q③②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NO     | NO                              | FA | NO | YW1L-A2E20Q③②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NC     | NC                              | FA | NC | YW1L-A2E02Q③②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 1NO-1NC | NO                              | FA | NC | YW1L-A2E11Q③②  |                                                                                    |                                                                                                                    |
|                                                                                                                  | Incandescent | Momentary  | 1NO     | NO                              | FA | —  | YW1L-M2E10Q③②  | 5: 6V AC/DC<br>6: 12V AC/DC<br>7: 24V AC/DC                                        | A: amber<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow<br>Built-in incandescent lamp: LS-T③            |
|                                                                                                                  |              |            | 1NC     | —                               | FA | NC | YW1L-M2E01Q③②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NO     | NO                              | FA | NO | YW1L-M2E20Q③②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NC     | NC                              | FA | NC | YW1L-M2E02Q③②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              | Maintained | 1NO-1NC | NO                              | FA | NC | YW1L-M2E11Q③②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 1NO     | NO                              | FA | —  | YW1L-A2E10Q③②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 1NC     | —                               | FA | NC | YW1L-A2E01Q③②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NO     | NO                              | FA | NO | YW1L-A2E20Q③②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NC     | NC                              | FA | NC | YW1L-A2E02Q③②  |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 1NO-1NC | NO                              | FA | NC | YW1L-A2E11Q③②  |                                                                                    |                                                                                                                    |
| Extended with Full Shroud<br> | Without Lamp | Momentary  | 1NO     | NO                              | FA | —  | YW1L-MF2E10Q0② | 0: without lamp<br>250V AC/DC max.                                                 | A: amber<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow                                                 |
|                                                                                                                  |              |            | 1NC     | —                               | FA | NC | YW1L-MF2E01Q0② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NO     | NO                              | FA | NO | YW1L-MF2E20Q0② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NC     | NC                              | FA | NC | YW1L-MF2E02Q0② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              | Maintained | 1NO-1NC | NO                              | FA | NC | YW1L-MF2E11Q0② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 1NO     | NO                              | FA | —  | YW1L-AF2E10Q0② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 1NC     | —                               | FA | NC | YW1L-AF2E01Q0② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NO     | NO                              | FA | NO | YW1L-AF2E20Q0② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NC     | NC                              | FA | NC | YW1L-AF2E02Q0② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 1NO-1NC | NO                              | FA | NC | YW1L-AF2E11Q0② |                                                                                    |                                                                                                                    |
|                                                                                                                  | LED          | Momentary  | 1NO     | NO                              | FA | —  | YW1L-MF2E10Q③② | 2: 6V AC/DC<br>3: 12V AC/DC<br>4: 24V AC/DC<br>H: 110V AC/DC<br>M3: 230/240V AC/DC | A: amber<br>G: green<br>PW: pure white<br>R: red<br>S: blue<br>W: white<br>Y: yellow<br>Built-in LED lamp: LSED-③② |
|                                                                                                                  |              |            | 1NC     | —                               | FA | NC | YW1L-MF2E01Q③② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NO     | NO                              | FA | NO | YW1L-MF2E20Q③② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NC     | NC                              | FA | NC | YW1L-MF2E02Q③② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              | Maintained | 1NO-1NC | NO                              | FA | NC | YW1L-MF2E11Q③② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 1NO     | NO                              | FA | —  | YW1L-AF2E10Q③② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 1NC     | —                               | FA | NC | YW1L-AF2E01Q③② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NO     | NO                              | FA | NO | YW1L-AF2E20Q③② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NC     | NC                              | FA | NC | YW1L-AF2E02Q③② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 1NO-1NC | NO                              | FA | NC | YW1L-AF2E11Q③② |                                                                                    |                                                                                                                    |
|                                                                                                                  | Incandescent | Momentary  | 1NO     | NO                              | FA | —  | YW1L-MF2E10Q③② | 5: 6V AC/DC<br>6: 12V AC/DC<br>7: 24V AC/DC                                        | A: amber<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow<br>Built-in incandescent lamp: LS-T③            |
|                                                                                                                  |              |            | 1NC     | —                               | FA | NC | YW1L-MF2E01Q③② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NO     | NO                              | FA | NO | YW1L-MF2E20Q③② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NC     | NC                              | FA | NC | YW1L-MF2E02Q③② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              | Maintained | 1NO-1NC | NO                              | FA | NC | YW1L-MF2E11Q③② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 1NO     | NO                              | FA | —  | YW1L-AF2E10Q③② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 1NC     | —                               | FA | NC | YW1L-AF2E01Q③② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NO     | NO                              | FA | NO | YW1L-AF2E20Q③② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 2NC     | NC                              | FA | NC | YW1L-AF2E02Q③② |                                                                                    |                                                                                                                    |
|                                                                                                                  |              |            | 1NO-1NC | NO                              | FA | NC | YW1L-AF2E11Q③② |                                                                                    |                                                                                                                    |

Note: Specify a lens color code in place of ② in the Part No.

Specify an operating voltage code in place of ③ in the Part No.

FA: Full voltage adapter

Download catalogs and CAD from <http://asia.idec.com/downloads>

## Illuminated Pushbuttons with Plastic Bezel

Package Quantity: 1

| Shape                                                                             | Lamp         | Operation  | Contact | Contact Block Mounting Position |    |    | Part No.      | ③ Operating Voltage Code                                                           | ② Lens Color Code                                                                                                  |
|-----------------------------------------------------------------------------------|--------------|------------|---------|---------------------------------|----|----|---------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
|                                                                                   |              |            |         | 1                               | 2  | 3  |               |                                                                                    |                                                                                                                    |
|  | Without Lamp | Momentary  | 1NO     | NO                              | FA | —  | YW1L-M4E10Q0② | 0: without lamp<br>250V AC/DC max.                                                 | A: amber<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow                                                 |
|                                                                                   |              |            | 1NC     | —                               | FA | NC | YW1L-M4E01Q0② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 2NO     | NO                              | FA | NO | YW1L-M4E20Q0② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 2NC     | NC                              | FA | NC | YW1L-M4E02Q0② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 1NO-1NC | NO                              | FA | NC | YW1L-M4E11Q0② |                                                                                    |                                                                                                                    |
|                                                                                   |              | Maintained | 1NO     | NO                              | FA | —  | YW1L-A4E10Q0② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 1NC     | —                               | FA | NC | YW1L-A4E01Q0② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 2NO     | NO                              | FA | NO | YW1L-A4E20Q0② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 2NC     | NC                              | FA | NC | YW1L-A4E02Q0② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 1NO-1NC | NO                              | FA | NC | YW1L-A4E11Q0② |                                                                                    |                                                                                                                    |
|                                                                                   | LED          | Momentary  | 1NO     | NO                              | FA | —  | YW1L-M4E10Q③② | 2: 6V AC/DC<br>3: 12V AC/DC<br>4: 24V AC/DC<br>H: 110V AC/DC<br>M3: 230/240V AC/DC | A: amber<br>G: green<br>PW: pure white<br>R: red<br>S: blue<br>W: white<br>Y: yellow<br>Built-in LED lamp: LSED-③② |
|                                                                                   |              |            | 1NC     | —                               | FA | NC | YW1L-M4E01Q③② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 2NO     | NO                              | FA | NO | YW1L-M4E20Q③② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 2NC     | NC                              | FA | NC | YW1L-M4E02Q③② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 1NO-1NC | NO                              | FA | NC | YW1L-M4E11Q③② |                                                                                    |                                                                                                                    |
|                                                                                   |              | Maintained | 1NO     | NO                              | FA | —  | YW1L-A4E10Q③② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 1NC     | —                               | FA | NC | YW1L-A4E01Q③② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 2NO     | NO                              | FA | NO | YW1L-A4E20Q③② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 2NC     | NC                              | FA | NC | YW1L-A4E02Q③② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 1NO-1NC | NO                              | FA | NC | YW1L-A4E11Q③② |                                                                                    |                                                                                                                    |
|                                                                                   | Incandescent | Momentary  | 1NO     | NO                              | FA | —  | YW1L-M4E10Q③② | 5: 6V AC/DC<br>6: 12V AC/DC<br>7: 24V AC/DC                                        | A: amber<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow<br>Built-in incandescent lamp: LS-T③            |
|                                                                                   |              |            | 1NC     | —                               | FA | NC | YW1L-M4E01Q③② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 2NO     | NO                              | FA | NO | YW1L-M4E20Q③② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 2NC     | NC                              | FA | NC | YW1L-M4E02Q③② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 1NO-1NC | NO                              | FA | NC | YW1L-M4E11Q③② |                                                                                    |                                                                                                                    |
|                                                                                   |              | Maintained | 1NO     | NO                              | FA | —  | YW1L-A4E10Q③② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 1NC     | —                               | FA | NC | YW1L-A4E01Q③② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 2NO     | NO                              | FA | NO | YW1L-A4E20Q③② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 2NC     | NC                              | FA | NC | YW1L-A4E02Q③② |                                                                                    |                                                                                                                    |
|                                                                                   |              |            | 1NO-1NC | NO                              | FA | NC | YW1L-A4E11Q③② |                                                                                    |                                                                                                                    |

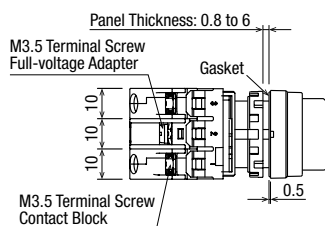
Note: Specify a lens color code in place of ② in the Part No.

Specify an operating voltage code in place of ③ in the Part No.

FA: Full voltage adapter

## Dimensions

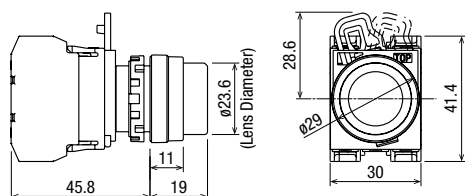
### (Illuminated Pushbuttons with Plastic Bezel)



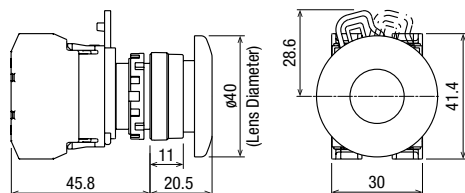
Contact Block Mounting Position



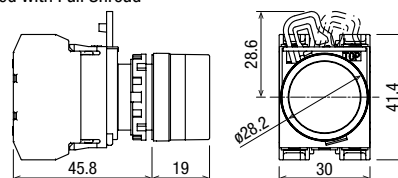
Extended



Mushroom



Extended with Full Shroud



All dimensions in mm.

## Illuminated Pushbuttons with Metal Bezel

Package Quantity: 1

| Shape                                                                               | Lamp         | Operation  | Contact | Contact Block Mounting Position |    |    | Part No.       | ③ Operating Voltage Code                                                           | ② Lens Color Code                                                                                                     |
|-------------------------------------------------------------------------------------|--------------|------------|---------|---------------------------------|----|----|----------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
|                                                                                     |              |            |         | 1                               | 2  | 3  |                |                                                                                    |                                                                                                                       |
|    | Without Lamp | Momentary  | 1NO     | NO                              | FA | —  | YW4L-M2E10Q0②  | 0: without lamp<br>250V AC/DC max.                                                 | A: amber<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow                                                    |
|                                                                                     |              |            | 1NC     | —                               | FA | NC | YW4L-M2E01Q0②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NO     | NO                              | FA | NO | YW4L-M2E20Q0②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NC     | NC                              | FA | NC | YW4L-M2E02Q0②  |                                                                                    |                                                                                                                       |
|                                                                                     |              | Maintained | 1NO-1NC | NO                              | FA | NC | YW4L-M2E11Q0②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 1NO     | NO                              | FA | —  | YW4L-A2E10Q0②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 1NC     | —                               | FA | NC | YW4L-A2E01Q0②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NO     | NO                              | FA | NO | YW4L-A2E20Q0②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NC     | NC                              | FA | NC | YW4L-A2E02Q0②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 1NO-1NC | NO                              | FA | NC | YW4L-A2E11Q0②  |                                                                                    |                                                                                                                       |
|                                                                                     | LED          | Momentary  | 1NO     | NO                              | FA | —  | YW4L-M2E10Q③②  | 2: 6V AC/DC<br>3: 12V AC/DC<br>4: 24V AC/DC<br>H: 110V AC/DC<br>M3: 230/240V AC/DC | A: amber<br>G: green<br>PW: pure white<br>R: red<br>S: blue<br>W: white<br>Y: yellow<br>Built-in LED lamp:<br>LSED-③② |
|                                                                                     |              |            | 1NC     | —                               | FA | NC | YW4L-M2E01Q③②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NO     | NO                              | FA | NO | YW4L-M2E20Q③②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NC     | NC                              | FA | NC | YW4L-M2E02Q③②  |                                                                                    |                                                                                                                       |
|                                                                                     |              | Maintained | 1NO-1NC | NO                              | FA | NC | YW4L-M2E11Q③②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 1NO     | NO                              | FA | —  | YW4L-A2E10Q③②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 1NC     | —                               | FA | NC | YW4L-A2E01Q③②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NO     | NO                              | FA | NO | YW4L-A2E20Q③②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NC     | NC                              | FA | NC | YW4L-A2E02Q③②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 1NO-1NC | NO                              | FA | NC | YW4L-A2E11Q③②  |                                                                                    |                                                                                                                       |
|                                                                                     | Incandescent | Momentary  | 1NO     | NO                              | FA | —  | YW4L-M2E10Q③②  | 5: 6V AC/DC<br>6: 12V AC/DC<br>7: 24V AC/DC                                        | A: amber<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow<br>Built-in incandescent lamp:<br>LS-T③            |
|                                                                                     |              |            | 1NC     | —                               | FA | NC | YW4L-M2E01Q③②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NO     | NO                              | FA | NO | YW4L-M2E20Q③②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NC     | NC                              | FA | NC | YW4L-M2E02Q③②  |                                                                                    |                                                                                                                       |
|                                                                                     |              | Maintained | 1NO-1NC | NO                              | FA | NC | YW4L-M2E11Q③②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 1NO     | NO                              | FA | —  | YW4L-A2E10Q③②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 1NC     | —                               | FA | NC | YW4L-A2E01Q③②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NO     | NO                              | FA | NO | YW4L-A2E20Q③②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NC     | NC                              | FA | NC | YW4L-A2E02Q③②  |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 1NO-1NC | NO                              | FA | NC | YW4L-A2E11Q③②  |                                                                                    |                                                                                                                       |
|  | Without Lamp | Momentary  | 1NO     | NO                              | FA | —  | YW4L-MF2E10Q0② | 0: without lamp<br>250V AC/DC max.                                                 | A: amber<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow                                                    |
|                                                                                     |              |            | 1NC     | —                               | FA | NC | YW4L-MF2E01Q0② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NO     | NO                              | FA | NO | YW4L-MF2E20Q0② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NC     | NC                              | FA | NC | YW4L-MF2E02Q0② |                                                                                    |                                                                                                                       |
|                                                                                     |              | Maintained | 1NO-1NC | NO                              | FA | NC | YW4L-MF2E11Q0② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 1NO     | NO                              | FA | —  | YW4L-AF2E10Q0② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 1NC     | —                               | FA | NC | YW4L-AF2E01Q0② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NO     | NO                              | FA | NO | YW4L-AF2E20Q0② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NC     | NC                              | FA | NC | YW4L-AF2E02Q0② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 1NO-1NC | NO                              | FA | NC | YW4L-AF2E11Q0② |                                                                                    |                                                                                                                       |
|                                                                                     | LED          | Momentary  | 1NO     | NO                              | FA | —  | YW4L-MF2E10Q③② | 2: 6V AC/DC<br>3: 12V AC/DC<br>4: 24V AC/DC<br>H: 110V AC/DC<br>M3: 230/240V AC/DC | A: amber<br>G: green<br>PW: pure white<br>R: red<br>S: blue<br>W: white<br>Y: yellow<br>Built-in LED lamp:<br>LSED-③② |
|                                                                                     |              |            | 1NC     | —                               | FA | NC | YW4L-MF2E01Q③② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NO     | NO                              | FA | NO | YW4L-MF2E20Q③② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NC     | NC                              | FA | NC | YW4L-MF2E02Q③② |                                                                                    |                                                                                                                       |
|                                                                                     |              | Maintained | 1NO-1NC | NO                              | FA | NC | YW4L-MF2E11Q③② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 1NO     | NO                              | FA | —  | YW4L-AF2E10Q③② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 1NC     | —                               | FA | NC | YW4L-AF2E01Q③② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NO     | NO                              | FA | NO | YW4L-AF2E20Q③② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NC     | NC                              | FA | NC | YW4L-AF2E02Q③② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 1NO-1NC | NO                              | FA | NC | YW4L-AF2E11Q③② |                                                                                    |                                                                                                                       |
|                                                                                     | Incandescent | Momentary  | 1NO     | NO                              | FA | —  | YW4L-MF2E10Q③② | 5: 6V AC/DC<br>6: 12V AC/DC<br>7: 24V AC/DC                                        | A: amber<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow<br>Built-in incandescent lamp:<br>LS-T③            |
|                                                                                     |              |            | 1NC     | —                               | FA | NC | YW4L-MF2E01Q③② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NO     | NO                              | FA | NO | YW4L-MF2E20Q③② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NC     | NC                              | FA | NC | YW4L-MF2E02Q③② |                                                                                    |                                                                                                                       |
|                                                                                     |              | Maintained | 1NO-1NC | NO                              | FA | NC | YW4L-MF2E11Q③② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 1NO     | NO                              | FA | —  | YW4L-AF2E10Q③② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 1NC     | —                               | FA | NC | YW4L-AF2E01Q③② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NO     | NO                              | FA | NO | YW4L-AF2E20Q③② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 2NC     | NC                              | FA | NC | YW4L-AF2E02Q③② |                                                                                    |                                                                                                                       |
|                                                                                     |              |            | 1NO-1NC | NO                              | FA | NC | YW4L-AF2E11Q③② |                                                                                    |                                                                                                                       |

Note: Specify a lens color code in place of ② in the Part No.

Specify an operating voltage code in place of ③ in the Part No.

FA: Full voltage adapter



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## Illuminated Pushbuttons with Metal Bezel

Package Quantity: 1

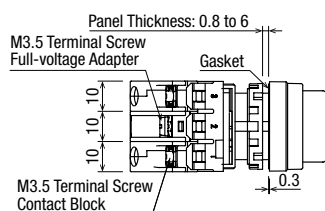
| Style                                                                             | Lamp         | Operation  | Contact | Contact Block Mounting Position |    |    | Part No.      | ③ Operating Voltage Code                                                           | ② Lens Color Code                                                                                                     |
|-----------------------------------------------------------------------------------|--------------|------------|---------|---------------------------------|----|----|---------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
|                                                                                   |              |            |         | 1                               | 2  | 3  |               |                                                                                    |                                                                                                                       |
|  | Without Lamp | Momentary  | 1NO     | NO                              | FA | —  | YW4L-M4E10Q0② | 0: without lamp<br>250V AC/DC max.                                                 | A: amber<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow                                                    |
|                                                                                   |              |            | 1NC     | —                               | FA | NC | YW4L-M4E01Q0② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 2NO     | NO                              | FA | NO | YW4L-M4E20Q0② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 2NC     | NC                              | FA | NC | YW4L-M4E02Q0② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 1NO-1NC | NO                              | FA | NC | YW4L-M4E11Q0② |                                                                                    |                                                                                                                       |
|                                                                                   |              | Maintained | 1NO     | NO                              | FA | —  | YW4L-A4E10Q0② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 1NC     | —                               | FA | NC | YW4L-A4E01Q0② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 2NO     | NO                              | FA | NO | YW4L-A4E20Q0② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 2NC     | NC                              | FA | NC | YW4L-A4E02Q0② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 1NO-1NC | NO                              | FA | NC | YW4L-A4E11Q0② |                                                                                    |                                                                                                                       |
|                                                                                   | LED          | Momentary  | 1NO     | NO                              | FA | —  | YW4L-M4E10Q③② | 2: 6V AC/DC<br>3: 12V AC/DC<br>4: 24V AC/DC<br>H: 110V AC/DC<br>M3: 230/240V AC/DC | A: amber<br>G: green<br>PW: pure white<br>R: red<br>S: blue<br>W: white<br>Y: yellow<br>Built-in LED lamp:<br>LSED-③② |
|                                                                                   |              |            | 1NC     | —                               | FA | NC | YW4L-M4E01Q③② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 2NO     | NO                              | FA | NO | YW4L-M4E20Q③② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 2NC     | NC                              | FA | NC | YW4L-M4E02Q③② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 1NO-1NC | NO                              | FA | NC | YW4L-M4E11Q③② |                                                                                    |                                                                                                                       |
|                                                                                   |              | Maintained | 1NO     | NO                              | FA | —  | YW4L-A4E10Q③② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 1NC     | —                               | FA | NC | YW4L-A4E01Q③② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 2NO     | NO                              | FA | NO | YW4L-A4E20Q③② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 2NC     | NC                              | FA | NC | YW4L-A4E02Q③② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 1NO-1NC | NO                              | FA | NC | YW4L-A4E11Q③② |                                                                                    |                                                                                                                       |
|                                                                                   | Incandescent | Momentary  | 1NO     | NO                              | FA | —  | YW4L-M4E10Q③② | 5: 6V AC/DC<br>6: 12V AC/DC<br>7: 24V AC/DC                                        | A: amber<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow<br>Built-in incandescent lamp:<br>LS-T③            |
|                                                                                   |              |            | 1NC     | —                               | FA | NC | YW4L-M4E01Q③② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 2NO     | NO                              | FA | NO | YW4L-M4E20Q③② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 2NC     | NC                              | FA | NC | YW4L-M4E02Q③② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 1NO-1NC | NO                              | FA | NC | YW4L-M4E11Q③② |                                                                                    |                                                                                                                       |
|                                                                                   |              | Maintained | 1NO     | NO                              | FA | —  | YW4L-A4E10Q③② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 1NC     | —                               | FA | NC | YW4L-A4E01Q③② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 2NO     | NO                              | FA | NO | YW4L-A4E20Q③② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 2NC     | NC                              | FA | NC | YW4L-A4E02Q③② |                                                                                    |                                                                                                                       |
|                                                                                   |              |            | 1NO-1NC | NO                              | FA | NC | YW4L-A4E11Q③② |                                                                                    |                                                                                                                       |

Note: Specify a lens color code in place of ② in the Part No.

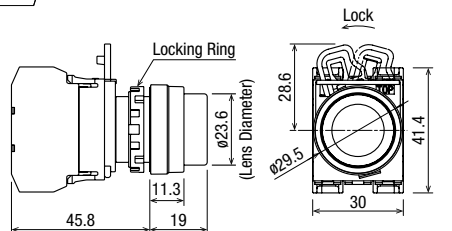
FA: Full voltage adapter

Specify an operating voltage code in place of ③ in the Part No.

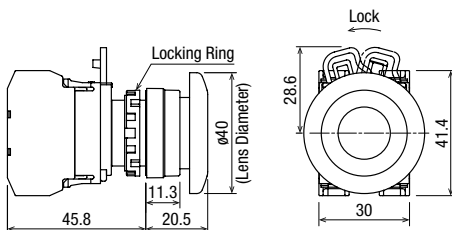
## Dimensions (Illuminated Pushbutton with Metal Bezel)



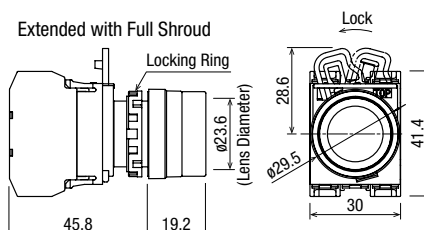
Extended



Mushroom



Extended with Full Shroud



Contact Block Mounting Position



All dimensions in mm.

## Selector Switches with Plastic Bezel

Package Quantity: 1

| Shape                                                                                                                        |                       |                                 |    |                   |   |   | Knob                                                                                |                          |                         |                       |              |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|----|-------------------|---|---|-------------------------------------------------------------------------------------|--------------------------|-------------------------|-----------------------|--------------|
|                                                                                                                              |                       |                                 |    |                   |   |   |  |                          |                         |                       |              |
| No. of Positions                                                                                                             | Contact Configuration | Contact Block Mounting Position |    | Operator Position |   |   | Maintained                                                                          | Spring Return from Right | —                       | —                     |              |
|                                                                                                                              |                       |                                 |    | L                 | R | — |                                                                                     |                          |                         |                       |              |
| <div>90°<br/>2-Position</div> <div></div>   | 1NO<br>(10)           | 1                               | NO |                   | ● |   | YW1S-2E10                                                                           | YW1S-21E10               | —                       | —                     |              |
|                                                                                                                              |                       | 2                               |    |                   |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               |    |                   |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              | 1NC<br>(01)           | 1                               |    |                   |   |   |                                                                                     | YW1S-2E01                | YW1S-21E01              | —                     | —            |
|                                                                                                                              |                       | 2                               |    |                   |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NC | ●                 |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              | 2NO<br>(20)           | 1                               | NO |                   | ● |   | YW1S-2E20                                                                           | YW1S-21E20               | —                       | —                     |              |
|                                                                                                                              |                       | 2                               |    |                   |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NO |                   | ● |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              | 2NC<br>(02)           | 1                               | NC | ●                 |   |   | YW1S-2E02                                                                           | YW1S-21E02               | —                       | —                     |              |
|                                                                                                                              |                       | 2                               |    |                   |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NC | ●                 |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              | 1NO-1NC<br>(11)       | 1                               | NO |                   | ● |   | YW1S-2E11                                                                           | YW1S-21E11               | —                       | —                     |              |
|                                                                                                                              |                       | 2                               |    |                   |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NC | ●                 |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              | 3NO<br>(30)           | 1                               | NO |                   | ● |   | YW1S-2E30                                                                           | YW1S-21E30               | —                       | —                     |              |
|                                                                                                                              |                       | 2                               | NO |                   | ● |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NO |                   | ● |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              | 3NC<br>(03)           | 1                               | NC | ●                 |   |   | YW1S-2E03                                                                           | YW1S-21E03               | —                       | —                     |              |
|                                                                                                                              |                       | 2                               | NC | ●                 |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NC | ●                 |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              | 2NO-1NC<br>(21)       | 1                               | NO |                   | ● |   | YW1S-2E21                                                                           | YW1S-21E21               | —                       | —                     |              |
|                                                                                                                              |                       | 2                               | NC | ●                 |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NO |                   | ● |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              | 1NO-2NC<br>(12)       | 1                               | NO |                   | ● |   | YW1S-2E12                                                                           | YW1S-21E12               | —                       | —                     |              |
|                                                                                                                              |                       | 2                               | NC | ●                 |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NC | ●                 |   |   |                                                                                     |                          |                         |                       |              |
| No. of Positions                                                                                                             | Contact Configuration | Contact Block Mounting Position |    | Operator Position |   |   | Maintained                                                                          | Spring Return from Right | Spring Return from Left | Spring Return Two-Way |              |
|                                                                                                                              |                       |                                 |    | L                 | C | R |                                                                                     |                          |                         |                       |              |
| <div>45°<br/>3-Position</div> <div></div> | 2NO<br>(20)           | 1                               | NO | ●                 |   |   | YW1S-3E20                                                                           | YW1S-31E20               | YW1S-32E20              | YW1S-33E20            |              |
|                                                                                                                              |                       | 2                               |    |                   |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NO |                   |   | ● |                                                                                     |                          |                         |                       |              |
|                                                                                                                              | 2NO<br>(20N1)         | 1                               | NO | ●                 |   |   | ●                                                                                   | YW1S-3E20N1              | YW1S-31E20N1            | YW1S-32E20N1          | YW1S-33E20N1 |
|                                                                                                                              |                       | 2                               | NO |                   |   |   | ●                                                                                   |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NO |                   |   |   | ●                                                                                   |                          |                         |                       |              |
|                                                                                                                              | 2NC<br>(02)           | 1                               | NC |                   |   |   |                                                                                     | YW1S-3E02                | YW1S-31E02              | YW1S-32E02            | YW1S-33E02   |
|                                                                                                                              |                       | 2                               |    |                   |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NC |                   |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              | 2NC<br>(02N1)         | 1                               | NC |                   |   |   | ●                                                                                   | YW1S-3E02N1              | YW1S-31E02N1            | YW1S-32E02N1          | YW1S-33E02N1 |
|                                                                                                                              |                       | 2                               | NC |                   |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NC |                   |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              | 1NO-1NC<br>(11)       | 1                               | NO | ●                 |   |   |                                                                                     | YW1S-3E11                | YW1S-31E11              | YW1S-32E11            | YW1S-33E11   |
|                                                                                                                              |                       | 2                               |    |                   |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NC |                   |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              | 1NO-1NC<br>(11N1)     | 1                               | NC |                   |   |   |                                                                                     | YW1S-3E11N1              | YW1S-31E11N1            | YW1S-32E11N1          | YW1S-33E11N1 |
|                                                                                                                              |                       | 2                               |    |                   |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NO |                   |   |   | ●                                                                                   |                          |                         |                       |              |
|                                                                                                                              | 1NO-1NC<br>(11N2)     | 1                               | NO | ●                 |   |   |                                                                                     | YW1S-3E11N2              | YW1S-31E11N2            | YW1S-32E11N2          | YW1S-33E11N2 |
|                                                                                                                              |                       | 2                               | NC |                   |   |   | ●                                                                                   |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               |    |                   |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              | 1NO-1NC<br>(11N3)     | 1                               |    |                   |   |   |                                                                                     | YW1S-3E11N3              | YW1S-31E11N3            | YW1S-32E11N3          | YW1S-33E11N3 |
|                                                                                                                              |                       | 2                               | NC |                   |   |   | ●                                                                                   |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NO |                   |   |   | ●                                                                                   |                          |                         |                       |              |
|                                                                                                                              | 1NO-1NC<br>(11N4)     | 1                               |    |                   |   |   |                                                                                     | YW1S-3E11N4              | YW1S-31E11N4            | YW1S-32E11N4          | YW1S-33E11N4 |
|                                                                                                                              |                       | 2                               | NO | ●                 |   |   | ●                                                                                   |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NC |                   |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              | 3NO<br>(30)           | 1                               | NO | ●                 |   |   |                                                                                     | YW1S-3E30                | YW1S-31E30              | YW1S-32E30            | YW1S-33E30   |
|                                                                                                                              |                       | 2                               | NO | ●                 |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NO |                   |   |   | ●                                                                                   |                          |                         |                       |              |
|                                                                                                                              | 3NC<br>(03)           | 1                               | NC |                   |   |   |                                                                                     | YW1S-3E03                | YW1S-31E03              | YW1S-32E03            | YW1S-33E03   |
|                                                                                                                              |                       | 2                               | NC |                   |   |   | ●                                                                                   |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NC |                   |   |   |                                                                                     |                          |                         |                       |              |
|                                                                                                                              | 2NO-1NC<br>(21)       | 1                               | NO | ●                 |   |   |                                                                                     | YW1S-3E21                | YW1S-31E21              | YW1S-32E21            | YW1S-33E21   |
|                                                                                                                              |                       | 2                               | NC |                   |   |   | ●                                                                                   |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NO |                   |   |   | ●                                                                                   |                          |                         |                       |              |
|                                                                                                                              | 1NO-2NC<br>(12)       | 1                               | NC |                   |   |   |                                                                                     | YW1S-3E12                | YW1S-31E12              | YW1S-32E12            | YW1S-33E12   |
|                                                                                                                              |                       | 2                               | NO | ●                 |   |   | ●                                                                                   |                          |                         |                       |              |
|                                                                                                                              |                       | 3                               | NC |                   |   |   |                                                                                     |                          |                         |                       |              |

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AUTO-ID

Flush Silhouette

ø16

ø22

ø30

Miniature

Pilot Lights

HW

TW

YW

## Selector Switches with Metal Bezel

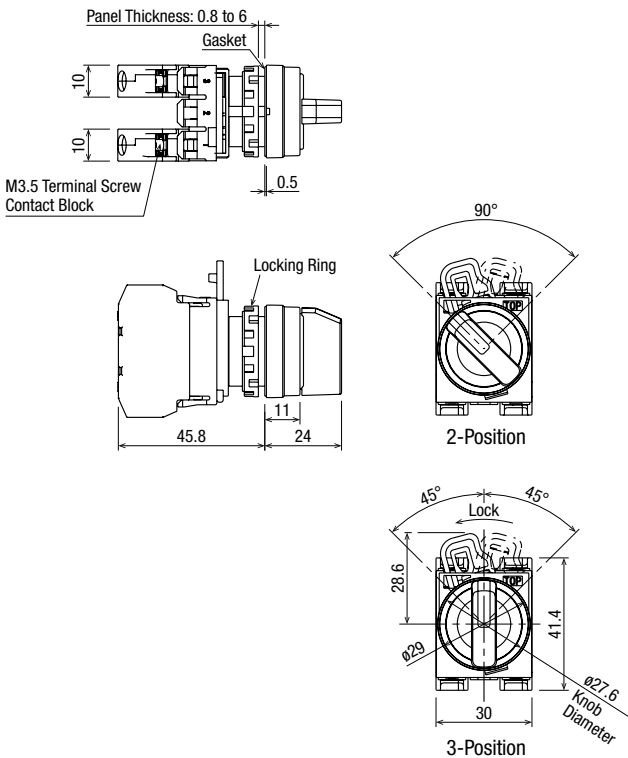
Package Quantity: 1

| Shape                                                                                                                        |                       |                                 |    |                   |   | Knob                                                                                |             |                          |                         |                       |   |  |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|----|-------------------|---|-------------------------------------------------------------------------------------|-------------|--------------------------|-------------------------|-----------------------|---|--|
|                                                                                                                              |                       |                                 |    |                   |   |  |             |                          |                         |                       |   |  |
| No. of Positions                                                                                                             | Contact Configuration | Contact Block Mounting Position |    | Operator Position |   |                                                                                     | Maintained  | Spring Return from Right | —                       | —                     |   |  |
|                                                                                                                              |                       |                                 |    | L                 | R | —                                                                                   |             |                          |                         |                       |   |  |
| <div>90°<br/>2-Position</div> <div></div>   | 1NO<br>(10)           | 1                               | NO |                   | ● |                                                                                     | YW4S-2E10   | YW4S-21E10               | —                       | —                     |   |  |
|                                                                                                                              |                       | 2                               |    |                   |   |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               |    |                   |   |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              | 1NC<br>(01)           | 1                               |    |                   |   |                                                                                     |             | YW4S-2E01                | YW4S-21E01              | —                     | — |  |
|                                                                                                                              |                       | 2                               |    |                   |   |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NC | ●                 |   |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              | 2NO<br>(20)           | 1                               | NO |                   | ● |                                                                                     | YW4S-2E20   | YW4S-21E20               | —                       | —                     |   |  |
|                                                                                                                              |                       | 2                               |    |                   |   |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NO |                   | ● |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              | 2NC<br>(02)           | 1                               | NC | ●                 |   |                                                                                     | YW4S-2E02   | YW4S-21E02               | —                       | —                     |   |  |
|                                                                                                                              |                       | 2                               |    |                   |   |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NC | ●                 |   |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              | 1NO-1NC<br>(11)       | 1                               | NO |                   | ● |                                                                                     | YW4S-2E11   | YW4S-21E11               | —                       | —                     |   |  |
|                                                                                                                              |                       | 2                               |    |                   |   |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NC | ●                 |   |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              | 3NO<br>(30)           | 1                               | NO |                   | ● |                                                                                     | YW4S-2E30   | YW4S-21E30               | —                       | —                     |   |  |
|                                                                                                                              |                       | 2                               | NO |                   | ● |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NO |                   | ● |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              | 3NC<br>(03)           | 1                               | NC | ●                 |   |                                                                                     | YW4S-2E03   | YW4S-21E03               | —                       | —                     |   |  |
|                                                                                                                              |                       | 2                               | NC | ●                 |   |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NC | ●                 |   |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              | 2NO-1NC<br>(21)       | 1                               | NO |                   | ● |                                                                                     | YW4S-2E21   | YW4S-21E21               | —                       | —                     |   |  |
|                                                                                                                              |                       | 2                               | NC | ●                 |   |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NO |                   | ● |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              | 1NO-2NC<br>(12)       | 1                               | NO |                   | ● |                                                                                     | YW4S-2E12   | YW4S-21E12               | —                       | —                     |   |  |
|                                                                                                                              |                       | 2                               | NC | ●                 |   |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NC | ●                 |   |                                                                                     |             |                          |                         |                       |   |  |
| No. of Positions                                                                                                             | Contact Configuration | Contact Block Mounting Position |    | Operator Position |   |                                                                                     | Maintained  | Spring Return from Right | Spring Return from Left | Spring Return Two-Way |   |  |
|                                                                                                                              |                       |                                 |    | L                 | C | R                                                                                   |             |                          |                         |                       |   |  |
| <div>45°<br/>3-Position</div> <div></div> | 2NO<br>(20)           | 1                               | NO | ●                 |   |                                                                                     | YW4S-3E20   | YW4S-31E20               | YW4S-32E20              | YW4S-33E20            |   |  |
|                                                                                                                              |                       | 2                               |    |                   |   |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NO |                   |   | ●                                                                                   |             |                          |                         |                       |   |  |
|                                                                                                                              | 2NO<br>(20N1)         | 1                               | NO | ●                 |   | ●                                                                                   | YW4S-3E20N1 | YW4S-31E20N1             | YW4S-32E20N1            | YW4S-33E20N1          |   |  |
|                                                                                                                              |                       | 2                               | NO |                   |   | ●                                                                                   |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NO |                   |   | ●                                                                                   |             |                          |                         |                       |   |  |
|                                                                                                                              | 2NC<br>(02)           | 1                               | NC |                   | ● | ●                                                                                   | YW4S-3E02   | YW4S-31E02               | YW4S-32E02              | YW4S-33E02            |   |  |
|                                                                                                                              |                       | 2                               |    |                   |   |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NC | ●                 | ● |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              | 2NC<br>(02N1)         | 1                               | NC |                   | ● |                                                                                     | YW4S-3E02N1 | YW4S-31E02N1             | YW4S-32E02N1            | YW4S-33E02N1          |   |  |
|                                                                                                                              |                       | 2                               | NC | ●                 | ● |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NC | ●                 | ● |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              | 1NO-1NC<br>(11)       | 1                               | NO | ●                 |   |                                                                                     | YW4S-3E11   | YW4S-31E11               | YW4S-32E11              | YW4S-33E11            |   |  |
|                                                                                                                              |                       | 2                               |    |                   |   |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NC | ●                 | ● |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              | 1NO-1NC<br>(11N1)     | 1                               | NC |                   | ● | ●                                                                                   | YW4S-3E11N1 | YW4S-31E11N1             | YW4S-32E11N1            | YW4S-33E11N1          |   |  |
|                                                                                                                              |                       | 2                               |    |                   |   |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NO |                   |   | ●                                                                                   |             |                          |                         |                       |   |  |
|                                                                                                                              | 1NO-1NC<br>(11N2)     | 1                               | NO | ●                 |   |                                                                                     | YW4S-3E11N2 | YW4S-31E11N2             | YW4S-32E11N2            | YW4S-33E11N2          |   |  |
|                                                                                                                              |                       | 2                               | NC |                   | ● |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               |    |                   |   |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              | 1NO-1NC<br>(11N3)     | 1                               |    |                   | ● |                                                                                     | YW4S-3E11N3 | YW4S-31E11N3             | YW4S-32E11N3            | YW4S-33E11N3          |   |  |
|                                                                                                                              |                       | 2                               | NC |                   | ● |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NO |                   |   | ●                                                                                   |             |                          |                         |                       |   |  |
|                                                                                                                              | 1NO-1NC<br>(11N4)     | 1                               |    | ●                 |   | ●                                                                                   | YW4S-3E11N4 | YW4S-31E11N4             | YW4S-32E11N4            | YW4S-33E11N4          |   |  |
|                                                                                                                              |                       | 2                               | NO | ●                 |   |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NC | ●                 | ● |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              | 3NO<br>(30)           | 1                               | NO | ●                 |   | ●                                                                                   | YW4S-3E30   | YW4S-31E30               | YW4S-32E30              | YW4S-33E30            |   |  |
|                                                                                                                              |                       | 2                               | NO | ●                 |   | ●                                                                                   |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NO |                   |   | ●                                                                                   |             |                          |                         |                       |   |  |
|                                                                                                                              | 3NC<br>(03)           | 1                               | NC |                   | ● | ●                                                                                   | YW4S-3E03   | YW4S-31E03               | YW4S-32E03              | YW4S-33E03            |   |  |
|                                                                                                                              |                       | 2                               | NC | ●                 | ● |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NC | ●                 | ● |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              | 2NO-1NC<br>(21)       | 1                               | NO | ●                 |   | ●                                                                                   | YW4S-3E21   | YW4S-31E21               | YW4S-32E21              | YW4S-33E21            |   |  |
|                                                                                                                              |                       | 2                               | NC |                   | ● |                                                                                     |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NO |                   |   | ●                                                                                   |             |                          |                         |                       |   |  |
|                                                                                                                              | 1NO-2NC<br>(12)       | 1                               | NC |                   | ● | ●                                                                                   | YW4S-3E12   | YW4S-31E12               | YW4S-32E12              | YW4S-33E12            |   |  |
|                                                                                                                              |                       | 2                               | NO | ●                 |   | ●                                                                                   |             |                          |                         |                       |   |  |
|                                                                                                                              |                       | 3                               | NC | ●                 | ● |                                                                                     |             |                          |                         |                       |   |  |

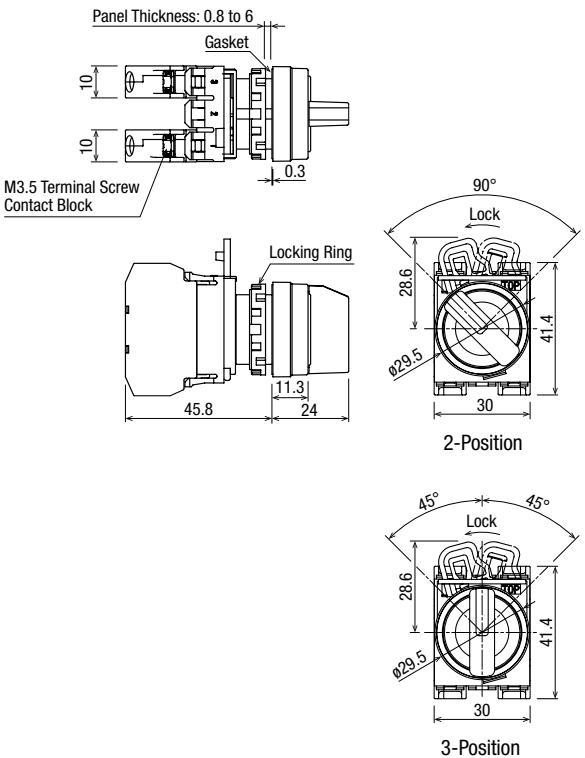
## Dimensions

All dimensions in mm

### Selector Switch with Plastic Bezel



### Selector Switch with Metal Bezel



### Contact Block Mounting Position

#### Selector Switch with Plastic Bezel

Contact Block Mounting Position



#### Selector Switch with Metal Bezel

Contact Block Mounting Position



APEM

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ø22

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HW

TW

YW



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## ø22 YW Series Switches &amp; Pilot Lights

## Key Selector Switches (90° 2-Position)

Package Quantity: 1

| No. of Positions                                                                                                                  | Contact Configuration | Contact Block Mounting Position |    | Operator Position |   | Part No.                                                                           |                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|----|-------------------|---|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                   |                       |                                 |    | L                 | R | Plastic Bezel                                                                      | Metal Bezel                                                                         |
|                                                                                                                                   |                       |                                 |    |                   |   |  |  |
| 90° 2-position<br>Maintained<br>                 | 1NO<br>(10)           | 1                               | NO |                   | ● | YW1K-2AE10                                                                         | YW4K-2AE10                                                                          |
|                                                                                                                                   |                       | 2                               |    |                   |   |                                                                                    |                                                                                     |
|                                                                                                                                   |                       | 3                               |    |                   |   |                                                                                    |                                                                                     |
|                                                                                                                                   | 1NC<br>(01)           | 1                               |    |                   |   | YW1K-2AE01                                                                         | YW4K-2AE01                                                                          |
|                                                                                                                                   |                       | 2                               |    |                   |   |                                                                                    |                                                                                     |
|                                                                                                                                   |                       | 3                               | NC | ●                 |   |                                                                                    |                                                                                     |
|                                                                                                                                   | 2NO<br>(20)           | 1                               | NO |                   | ● | YW1K-2AE20                                                                         | YW4K-2AE20                                                                          |
|                                                                                                                                   |                       | 2                               |    |                   |   |                                                                                    |                                                                                     |
|                                                                                                                                   |                       | 3                               | NO |                   | ● |                                                                                    |                                                                                     |
|                                                                                                                                   | 2NC<br>(02)           | 1                               | NC | ●                 |   | YW1K-2AE02                                                                         | YW4K-2AE02                                                                          |
|                                                                                                                                   |                       | 2                               |    |                   |   |                                                                                    |                                                                                     |
|                                                                                                                                   |                       | 3                               | NC | ●                 |   |                                                                                    |                                                                                     |
|                                                                                                                                   | 1NO-1NC<br>(11)       | 1                               | NO |                   | ● | YW1K-2AE11                                                                         | YW4K-2AE11                                                                          |
|                                                                                                                                   |                       | 2                               |    |                   |   |                                                                                    |                                                                                     |
|                                                                                                                                   |                       | 3                               | NC | ●                 |   |                                                                                    |                                                                                     |
|                                                                                                                                   | 3NO<br>(30)           | 1                               | NO |                   | ● | YW1K-2AE30                                                                         | YW4K-2AE30                                                                          |
|                                                                                                                                   |                       | 2                               | NO |                   | ● |                                                                                    |                                                                                     |
|                                                                                                                                   |                       | 3                               | NO |                   | ● |                                                                                    |                                                                                     |
|                                                                                                                                   | 3NC<br>(03)           | 1                               | NC | ●                 |   | YW1K-2AE03                                                                         | YW4K-2AE03                                                                          |
|                                                                                                                                   |                       | 2                               | NC | ●                 |   |                                                                                    |                                                                                     |
|                                                                                                                                   |                       | 3                               | NC | ●                 |   |                                                                                    |                                                                                     |
|                                                                                                                                   | 2NO-1NC<br>(21)       | 1                               | NO |                   | ● | YW1K-2AE21                                                                         | YW4K-2AE21                                                                          |
|                                                                                                                                   |                       | 2                               | NC | ●                 |   |                                                                                    |                                                                                     |
|                                                                                                                                   |                       | 3                               | NO |                   | ● |                                                                                    |                                                                                     |
|                                                                                                                                   | 1NO-2NC<br>(12)       | 1                               | NO |                   | ● | YW1K-2AE12                                                                         | YW4K-2AE12                                                                          |
|                                                                                                                                   |                       | 2                               | NC | ●                 |   |                                                                                    |                                                                                     |
|                                                                                                                                   |                       | 3                               | NC | ●                 |   |                                                                                    |                                                                                     |
| 90° 2-position<br>Spring Return from Right<br> | 1NO<br>(10)           | 1                               | NO |                   | ● | YW1K-21BE10                                                                        | YW4K-21BE10                                                                         |
|                                                                                                                                   |                       | 2                               |    |                   |   |                                                                                    |                                                                                     |
|                                                                                                                                   |                       | 3                               |    |                   |   |                                                                                    |                                                                                     |
|                                                                                                                                   | 1NC<br>(01)           | 1                               |    |                   |   | YW1K-21BE01                                                                        | YW4K-21BE01                                                                         |
|                                                                                                                                   |                       | 2                               |    |                   |   |                                                                                    |                                                                                     |
|                                                                                                                                   |                       | 3                               | NC | ●                 |   |                                                                                    |                                                                                     |
|                                                                                                                                   | 2NO<br>(20)           | 1                               | NO |                   | ● | YW1K-21BE20                                                                        | YW4K-21BE20                                                                         |
|                                                                                                                                   |                       | 2                               |    |                   |   |                                                                                    |                                                                                     |
|                                                                                                                                   |                       | 3                               | NO |                   | ● |                                                                                    |                                                                                     |
|                                                                                                                                   | 2NC<br>(02)           | 1                               | NC | ●                 |   | YW1K-21BE02                                                                        | YW4K-21BE02                                                                         |
|                                                                                                                                   |                       | 2                               |    |                   |   |                                                                                    |                                                                                     |
|                                                                                                                                   |                       | 3                               | NC | ●                 |   |                                                                                    |                                                                                     |
|                                                                                                                                   | 1NO-1NC<br>(11)       | 1                               | NO |                   | ● | YW1K-21BE11                                                                        | YW4K-21BE11                                                                         |
|                                                                                                                                   |                       | 2                               |    |                   |   |                                                                                    |                                                                                     |
|                                                                                                                                   |                       | 3                               | NC | ●                 |   |                                                                                    |                                                                                     |
|                                                                                                                                   | 3NO<br>(30)           | 1                               | NO |                   | ● | YW1K-21BE30                                                                        | YW4K-21BE30                                                                         |
|                                                                                                                                   |                       | 2                               | NO |                   | ● |                                                                                    |                                                                                     |
|                                                                                                                                   |                       | 3                               | NO |                   | ● |                                                                                    |                                                                                     |
|                                                                                                                                   | 3NC<br>(03)           | 1                               | NC | ●                 |   | YW1K-21BE03                                                                        | YW4K-21BE03                                                                         |
|                                                                                                                                   |                       | 2                               | NC | ●                 |   |                                                                                    |                                                                                     |
|                                                                                                                                   |                       | 3                               | NC | ●                 |   |                                                                                    |                                                                                     |
|                                                                                                                                   | 2NO-1NC<br>(21)       | 1                               | NO |                   | ● | YW1K-21BE21                                                                        | YW4K-21BE21                                                                         |
|                                                                                                                                   |                       | 2                               | NC | ●                 |   |                                                                                    |                                                                                     |
|                                                                                                                                   |                       | 3                               | NO |                   | ● |                                                                                    |                                                                                     |
|                                                                                                                                   | 1NO-2NC<br>(12)       | 1                               | NO |                   | ● | YW1K-21BE12                                                                        | YW4K-21BE12                                                                         |
|                                                                                                                                   |                       | 2                               | NC | ●                 |   |                                                                                    |                                                                                     |
|                                                                                                                                   |                       | 3                               | NC | ●                 |   |                                                                                    |                                                                                     |

- On the spring-returned types, the key can be removed only from the maintained position. On the maintained types, the key can be removed from every position. Key retained positions are also available. See Part No. Development shown on **B-288**.
- Each key selector switch is supplied with two identical keys.

## Key Selector Switches (45° 3-Position)

Package Quantity: 1

| No. of Positions                                                                                                                     | Contact Configuration | Contact Block Mounting Position |    | Operator Position |   |   | Part No.                                                                           |                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|----|-------------------|---|---|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                      |                       |                                 |    | L                 | C | R | Plastic Bezel                                                                      | Metal Bezel                                                                         |
|                                                                                                                                      |                       |                                 |    |                   |   |   |  |  |
| <div>45° 3-position Maintained</div> <div>  </div> | 2NO (20)              | 1                               | NO | ●                 |   |   | YW1K-3AE20                                                                         | YW4K-3AE20                                                                          |
|                                                                                                                                      |                       | 2                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                      |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                      | 2NO (20N1)            | 1                               |    | ●                 |   |   | YW1K-3AE20N1                                                                       | YW4K-3AE20N1                                                                        |
|                                                                                                                                      |                       | 2                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                      |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                      | 2NC (02)              | 1                               | NC |                   | ■ |   | YW1K-3AE02                                                                         | YW4K-3AE02                                                                          |
|                                                                                                                                      |                       | 2                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                      |                       | 3                               | NC | ■                 |   |   |                                                                                    |                                                                                     |
|                                                                                                                                      | 2NC (02N1)            | 1                               |    |                   |   |   | YW1K-3AE02N1                                                                       | YW4K-3AE02N1                                                                        |
|                                                                                                                                      |                       | 2                               | NC |                   | ● |   |                                                                                    |                                                                                     |
|                                                                                                                                      |                       | 3                               | NC | ■                 |   |   |                                                                                    |                                                                                     |
|                                                                                                                                      | 1NO-1NC (11)          | 1                               | NO | ●                 |   |   | YW1K-3AE11                                                                         | YW4K-3AE11                                                                          |
|                                                                                                                                      |                       | 2                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                      |                       | 3                               | NC | ■                 |   |   |                                                                                    |                                                                                     |
|                                                                                                                                      | 1NO-1NC (11N1)        | 1                               | NC |                   | ■ |   | YW1K-3AE11N1                                                                       | YW4K-3AE11N1                                                                        |
|                                                                                                                                      |                       | 2                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                      |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                      | 1NO-1NC (11N2)        | 1                               | NO | ●                 |   |   | YW1K-3AE11N2                                                                       | YW4K-3AE11N2                                                                        |
|                                                                                                                                      |                       | 2                               | NC |                   | ● |   |                                                                                    |                                                                                     |
|                                                                                                                                      |                       | 3                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                      | 1NO-1NC (11N3)        | 1                               |    |                   |   |   | YW1K-3AE11N3                                                                       | YW4K-3AE11N3                                                                        |
|                                                                                                                                      |                       | 2                               | NC |                   | ● |   |                                                                                    |                                                                                     |
|                                                                                                                                      |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                      | 1NO-1NC (11N4)        | 1                               |    | ●                 |   | ● | YW1K-3AE11N4                                                                       | YW4K-3AE11N4                                                                        |
|                                                                                                                                      |                       | 2                               | NO |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                      |                       | 3                               | NC | ■                 |   |   |                                                                                    |                                                                                     |
|                                                                                                                                      | 3NO (30)              | 1                               | NO | ●                 |   |   | YW1K-3AE30                                                                         | YW4K-3AE30                                                                          |
|                                                                                                                                      |                       | 2                               | NO | ●                 |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                      |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                      | 3NC (03)              | 1                               | NC |                   | ■ |   | YW1K-3AE03                                                                         | YW4K-3AE03                                                                          |
|                                                                                                                                      |                       | 2                               | NC |                   | ● |   |                                                                                    |                                                                                     |
|                                                                                                                                      |                       | 3                               | NC | ■                 |   |   |                                                                                    |                                                                                     |
|                                                                                                                                      | 2NO-1NC (21)          | 1                               | NO | ●                 |   |   | YW1K-3AE21                                                                         | YW4K-3AE21                                                                          |
|                                                                                                                                      |                       | 2                               | NC |                   | ● |   |                                                                                    |                                                                                     |
|                                                                                                                                      |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                      | 1NO-2NC (12)          | 1                               | NC |                   | ■ |   | YW1K-3AE12                                                                         | YW4K-3AE12                                                                          |
|                                                                                                                                      |                       | 2                               | NO | ●                 |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                      |                       | 3                               | NC | ■                 |   |   |                                                                                    |                                                                                     |

- On the maintained types, the key can be removed from every position. Key retained positions are also available. See Part No. Development below.
- Each key selector switch is supplied with two identical keys.

### Part No. Development

YW1K-2 A E21

Key removal position code

2-position

A: Removable in all positions

B: Removable in left only

C: Removable in right only

3-position

A: Removable in all positions

B: Removable in left and center

C: Removable in right and center

D: Removable in center only

E: Removable in right and left

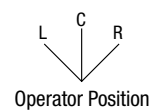
G: Removable in left only

H: Removable in right only

### Contact Block Mounting Position

Contact Block Mounting Position

1 2 3



Download catalogs and CAD from <http://asia.idec.com/downloads>

Flush Silhouette

ø16

ø22

ø30

Miniature

Pilot Lights

HW

TW

YW

## ø22 YW Series Switches &amp; Pilot Lights

## Key Selector Switches (45° 3-Position)

Package Quantity: 1

| No. of Positions                                                                                                                                              | Contact Configuration | Contact Block Mounting Position |    | Operator Position |   |   | Part No.                                                                           |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|----|-------------------|---|---|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                                               |                       |                                 |    | L                 | C | R | Plastic Bezel                                                                      | Metal Bezel                                                                         |
|                                                                                                                                                               |                       |                                 |    |                   |   |   |  |  |
| <div> <div>45° 3-position</div> <div>Spring Return from Right</div>  </div> | 2NO<br>(20)           | 1                               | NO | ●                 |   |   | YW1K-31BE20                                                                        | YW4K-31BE20                                                                         |
|                                                                                                                                                               |                       | 2                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                                               |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                               | 2NO<br>(20N1)         | 1                               |    |                   |   |   | YW1K-31BE20N1                                                                      | YW4K-31BE20N1                                                                       |
|                                                                                                                                                               |                       | 2                               | NO | ●                 |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                               |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                               | 2NC<br>(02)           | 1                               | NC |                   | ■ | ■ | YW1K-31BE02                                                                        | YW4K-31BE02                                                                         |
|                                                                                                                                                               |                       | 2                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                                               |                       | 3                               | NC | ■                 | ■ |   |                                                                                    |                                                                                     |
|                                                                                                                                                               | 2NC<br>(02N1)         | 1                               |    |                   |   |   | YW1K-31BE02N1                                                                      | YW4K-31BE02N1                                                                       |
|                                                                                                                                                               |                       | 2                               | NC |                   | ● |   |                                                                                    |                                                                                     |
|                                                                                                                                                               |                       | 3                               | NC | ■                 | ■ |   |                                                                                    |                                                                                     |
|                                                                                                                                                               | 1NO-1NC<br>(11)       | 1                               | NO | ●                 |   |   | YW1K-31BE11                                                                        | YW4K-31BE11                                                                         |
|                                                                                                                                                               |                       | 2                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                                               |                       | 3                               | NC | ■                 | ■ |   |                                                                                    |                                                                                     |
|                                                                                                                                                               | 1NO-1NC<br>(11N1)     | 1                               | NC |                   | ■ | ■ | YW1K-31BE11N1                                                                      | YW4K-31BE11N1                                                                       |
|                                                                                                                                                               |                       | 2                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                                               |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                               | 1NO-1NC<br>(11N2)     | 1                               | NO | ●                 |   |   | YW1K-31BE11N2                                                                      | YW4K-31BE11N2                                                                       |
|                                                                                                                                                               |                       | 2                               | NC |                   | ● |   |                                                                                    |                                                                                     |
|                                                                                                                                                               |                       | 3                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                                               | 1NO-1NC<br>(11N3)     | 1                               |    |                   |   |   | YW1K-31BE11N3                                                                      | YW4K-31BE11N3                                                                       |
|                                                                                                                                                               |                       | 2                               | NC |                   | ● |   |                                                                                    |                                                                                     |
|                                                                                                                                                               |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                               | 1NO-1NC<br>(11N4)     | 1                               |    | ●                 |   | ● | YW1K-31BE11N4                                                                      | YW4K-31BE11N4                                                                       |
|                                                                                                                                                               |                       | 2                               | NO | ●                 |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                               |                       | 3                               | NC | ■                 | ■ |   |                                                                                    |                                                                                     |
|                                                                                                                                                               | 3NO<br>(30)           | 1                               | NO | ●                 |   |   | YW1K-31BE30                                                                        | YW4K-31BE30                                                                         |
|                                                                                                                                                               |                       | 2                               | NO | ●                 |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                               |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                               | 3NC<br>(03)           | 1                               | NC |                   | ■ | ■ | YW1K-31BE03                                                                        | YW4K-31BE03                                                                         |
|                                                                                                                                                               |                       | 2                               | NC |                   | ● |   |                                                                                    |                                                                                     |
|                                                                                                                                                               |                       | 3                               | NC | ■                 | ■ |   |                                                                                    |                                                                                     |
|                                                                                                                                                               | 2NO-1NC<br>(21)       | 1                               | NO | ●                 |   |   | YW1K-31BE21                                                                        | YW4K-31BE21                                                                         |
|                                                                                                                                                               |                       | 2                               | NC |                   | ● |   |                                                                                    |                                                                                     |
|                                                                                                                                                               |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                               | 1NO-2NC<br>(12)       | 1                               | NC |                   | ■ | ■ | YW1K-31BE12                                                                        | YW4K-31BE12                                                                         |
|                                                                                                                                                               |                       | 2                               | NO | ●                 |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                               |                       | 3                               | NC | ■                 | ■ |   |                                                                                    |                                                                                     |

- On the spring-returned types, the key can be removed only from the maintained position. Key retained positions are also available. See Part No. Development shown on **B-288**.
- Each key selector switch is supplied with two identical keys.

## Key Selector Switches (45° 3-Position)

Package Quantity: 1

| No. of Positions                                                                                                                         | Contact Configuration | Contact Block Mounting Position |    | Operator Position |   |   | Part No.                                                                           |                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|----|-------------------|---|---|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                          |                       |                                 |    | L                 | C | R | Plastic Bezel                                                                      | Metal Bezel                                                                         |
|                                                                                                                                          |                       |                                 |    |                   |   |   |  |  |
| <div>45° 3-position<br/>Spring Return from Left</div>  | 2NO<br>(20)           | 1                               | NO | ●                 |   |   | YW1K-32CE20                                                                        | YW4K-32CE20                                                                         |
|                                                                                                                                          |                       | 2                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                          |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                          | 2NO<br>(20N1)         | 1                               |    | ●                 |   | ● | YW1K-32CE20N1                                                                      | YW4K-32CE20N1                                                                       |
|                                                                                                                                          |                       | 2                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                          |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                          | 2NC<br>(02)           | 1                               | NC |                   | ■ |   | YW1K-32CE02                                                                        | YW4K-32CE02                                                                         |
|                                                                                                                                          |                       | 2                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                          |                       | 3                               | NC | ■                 |   |   |                                                                                    |                                                                                     |
|                                                                                                                                          | 2NC<br>(02N1)         | 1                               |    |                   | ● |   | YW1K-32CE02N1                                                                      | YW4K-32CE02N1                                                                       |
|                                                                                                                                          |                       | 2                               | NC |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                          |                       | 3                               | NC | ■                 |   |   |                                                                                    |                                                                                     |
|                                                                                                                                          | 1NO-1NC<br>(11)       | 1                               | NO | ●                 |   |   | YW1K-32CE11                                                                        | YW4K-32CE11                                                                         |
|                                                                                                                                          |                       | 2                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                          |                       | 3                               | NC | ■                 |   |   |                                                                                    |                                                                                     |
|                                                                                                                                          | 1NO-1NC<br>(11N1)     | 1                               | NC |                   | ■ |   | YW1K-32CE11N1                                                                      | YW4K-32CE11N1                                                                       |
|                                                                                                                                          |                       | 2                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                          |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                          | 1NO-1NC<br>(11N2)     | 1                               | NO | ●                 |   |   | YW1K-32CE11N2                                                                      | YW4K-32CE11N2                                                                       |
|                                                                                                                                          |                       | 2                               | NC |                   | ● |   |                                                                                    |                                                                                     |
|                                                                                                                                          |                       | 3                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                          | 1NO-1NC<br>(11N3)     | 1                               |    |                   | ● |   | YW1K-32CE11N3                                                                      | YW4K-32CE11N3                                                                       |
|                                                                                                                                          |                       | 2                               | NC |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                          |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                          | 1NO-1NC<br>(11N4)     | 1                               |    | ●                 |   | ● | YW1K-32CE11N4                                                                      | YW4K-32CE11N4                                                                       |
|                                                                                                                                          |                       | 2                               | NO |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                          |                       | 3                               | NC | ■                 |   |   |                                                                                    |                                                                                     |
|                                                                                                                                          | 3NO<br>(30)           | 1                               | NO | ●                 |   |   | YW1K-32CE30                                                                        | YW4K-32CE30                                                                         |
|                                                                                                                                          |                       | 2                               | NO | ●                 |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                          |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                          | 3NC<br>(03)           | 1                               | NC |                   | ■ |   | YW1K-32CE03                                                                        | YW4K-32CE03                                                                         |
|                                                                                                                                          |                       | 2                               | NC |                   | ● |   |                                                                                    |                                                                                     |
|                                                                                                                                          |                       | 3                               | NC | ■                 |   |   |                                                                                    |                                                                                     |
|                                                                                                                                          | 2NO-1NC<br>(21)       | 1                               | NO | ●                 |   |   | YW1K-32CE21                                                                        | YW4K-32CE21                                                                         |
|                                                                                                                                          |                       | 2                               | NC |                   | ● |   |                                                                                    |                                                                                     |
|                                                                                                                                          |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                          | 1NO-2NC<br>(12)       | 1                               | NC |                   | ■ |   | YW1K-32CE12                                                                        | YW4K-32CE12                                                                         |
|                                                                                                                                          |                       | 2                               | NO | ●                 |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                          |                       | 3                               | NC | ■                 |   |   |                                                                                    |                                                                                     |

- On the spring-returned types, the key can be removed only from the maintained position. Key retained positions are also available. See Part No. Development shown on **B-288**.
- Each key selector switch is supplied with two identical keys.

APEM

Switches & Pilot Lights

Control Boxes

Emergency Stop Switches

Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator Interfaces

Sensors

AUTO-ID

Flush Silhouette

ø16

ø22

ø30

Miniature

Pilot Lights

HW

TW

YW



Download catalogs and CAD from <http://asia.idec.com/downloads>

## ø22 YW Series Switches &amp; Pilot Lights

## Key Selector Switches (45° 3-Position)

Package Quantity: 1

| No. of Positions                                                                                                                                    | Contact Configuration | Contact Block Mounting Position |    | Operator Position |   |   | Part No.                                                                           |                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|----|-------------------|---|---|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                                     |                       |                                 |    | L                 | C | R | Plastic Bezel                                                                      | Metal Bezel                                                                         |
|                                                                                                                                                     |                       |                                 |    |                   |   |   |  |  |
| <div> <div>45° 3-position<br/>Spring Return Two-way</div>  </div> | 2NO<br>(20)           | 1                               | NO | ●                 |   |   | YW1K-33DE20                                                                        | YW4K-33DE20                                                                         |
|                                                                                                                                                     |                       | 2                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                                     |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                     | 2NO<br>(20N1)         | 1                               |    |                   |   |   | YW1K-33DE20N1                                                                      | YW4K-33DE20N1                                                                       |
|                                                                                                                                                     |                       | 2                               | NO | ●                 |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                     |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                     | 2NC<br>(02)           | 1                               | NC |                   | ■ | ■ | YW1K-33DE02                                                                        | YW4K-33DE02                                                                         |
|                                                                                                                                                     |                       | 2                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                                     |                       | 3                               | NC | ■                 | ■ |   |                                                                                    |                                                                                     |
|                                                                                                                                                     | 2NC<br>(02N1)         | 1                               |    |                   |   |   | YW1K-33DE02N1                                                                      | YW4K-33DE02N1                                                                       |
|                                                                                                                                                     |                       | 2                               | NC |                   | ● |   |                                                                                    |                                                                                     |
|                                                                                                                                                     |                       | 3                               | NC | ■                 | ■ |   |                                                                                    |                                                                                     |
|                                                                                                                                                     | 1NO-1NC<br>(11)       | 1                               | NO | ●                 |   |   | YW1K-33DE11                                                                        | YW4K-33DE11                                                                         |
|                                                                                                                                                     |                       | 2                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                                     |                       | 3                               | NC | ■                 | ■ |   |                                                                                    |                                                                                     |
|                                                                                                                                                     | 1NO-1NC<br>(11N1)     | 1                               | NC |                   | ■ | ■ | YW1K-33DE11N1                                                                      | YW4K-33DE11N1                                                                       |
|                                                                                                                                                     |                       | 2                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                                     |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                     | 1NO-1NC<br>(11N2)     | 1                               | NO | ●                 |   |   | YW1K-33DE11N2                                                                      | YW4K-33DE11N2                                                                       |
|                                                                                                                                                     |                       | 2                               | NC |                   | ● |   |                                                                                    |                                                                                     |
|                                                                                                                                                     |                       | 3                               |    |                   |   |   |                                                                                    |                                                                                     |
|                                                                                                                                                     | 1NO-1NC<br>(11N3)     | 1                               |    |                   |   |   | YW1K-33DE11N3                                                                      | YW4K-33DE11N3                                                                       |
|                                                                                                                                                     |                       | 2                               | NC |                   | ● |   |                                                                                    |                                                                                     |
|                                                                                                                                                     |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                     | 1NO-1NC<br>(11N4)     | 1                               |    | ●                 |   | ● | YW1K-33DE11N4                                                                      | YW4K-33DE11N4                                                                       |
|                                                                                                                                                     |                       | 2                               | NO | ●                 |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                     |                       | 3                               | NC | ■                 | ■ |   |                                                                                    |                                                                                     |
|                                                                                                                                                     | 3NO<br>(30)           | 1                               | NO | ●                 |   |   | YW1K-33DE30                                                                        | YW4K-33DE30                                                                         |
|                                                                                                                                                     |                       | 2                               | NO | ●                 |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                     |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                     | 3NC<br>(03)           | 1                               | NC |                   | ■ | ■ | YW1K-33DE03                                                                        | YW4K-33DE03                                                                         |
|                                                                                                                                                     |                       | 2                               | NC |                   | ● |   |                                                                                    |                                                                                     |
|                                                                                                                                                     |                       | 3                               | NC | ■                 | ■ |   |                                                                                    |                                                                                     |
|                                                                                                                                                     | 2NO-1NC<br>(21)       | 1                               | NO | ●                 |   |   | YW1K-33DE21                                                                        | YW4K-33DE21                                                                         |
|                                                                                                                                                     |                       | 2                               | NC |                   | ● |   |                                                                                    |                                                                                     |
|                                                                                                                                                     |                       | 3                               | NO |                   |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                     | 1NO-2NC<br>(12)       | 1                               | NC |                   | ■ | ■ | YW1K-33DE12                                                                        | YW4K-33DE12                                                                         |
|                                                                                                                                                     |                       | 2                               | NO | ●                 |   | ● |                                                                                    |                                                                                     |
|                                                                                                                                                     |                       | 3                               | NC | ■                 | ■ |   |                                                                                    |                                                                                     |

- On the spring-returned types, the key can be removed only from the maintained position. Key retained positions are also available. See Part No. Development shown on **B-288**.
- Each key selector switch is supplied with two identical keys.

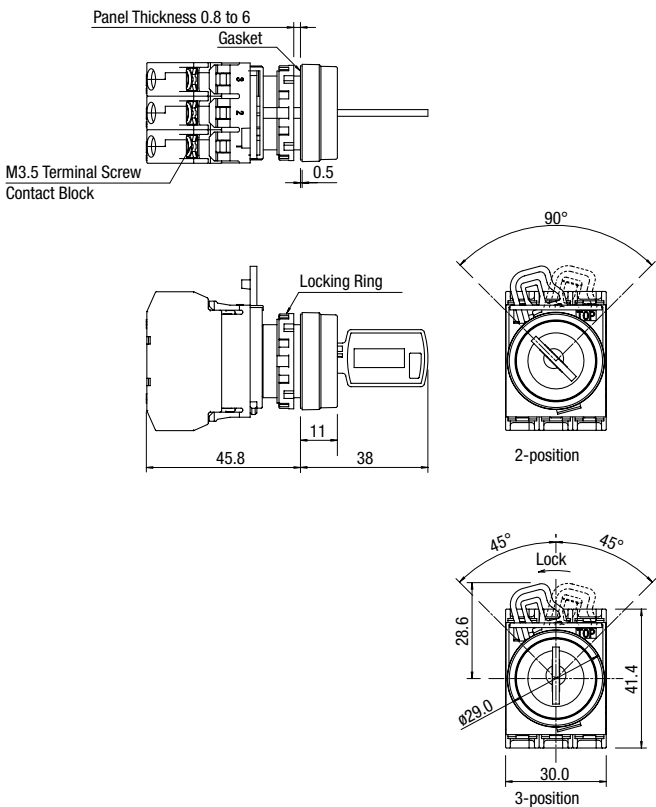
|                         |
|-------------------------|
| APEM                    |
| Switches & Pilot Lights |
| Control Boxes           |
| Emergency Stop Switches |
| Enabling Switches       |
| Safety Products         |
| Explosion Proof         |
| Terminal Blocks         |
| Relays & Sockets        |
| Circuit Protectors      |
| Power Supplies          |
| LED Illumination        |
| Controllers             |
| Operator Interfaces     |
| Sensors                 |
| AUTO-ID                 |

|                  |
|------------------|
| Flush Silhouette |
| ø16              |
| ø22              |
| ø30              |
| Miniature        |
| Pilot Lights     |
|                  |
| HW               |
| TW               |
| YW               |

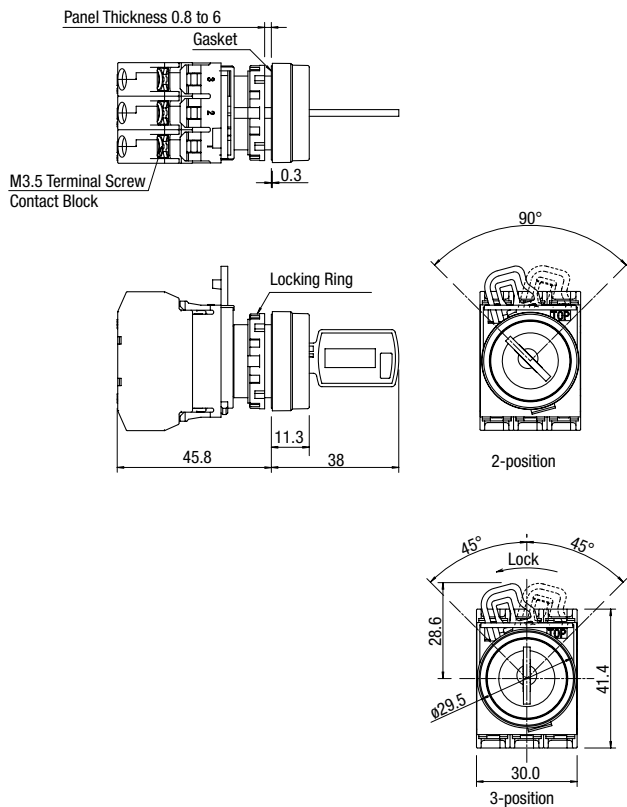
Dimensions

All dimensions in mm

Plastic Bezel



Metal Bezel



Contact Block Mounting Position

Plastic Bezel

Contact Block Mounting Position

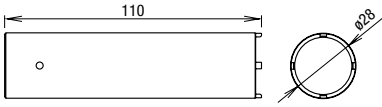
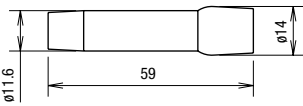
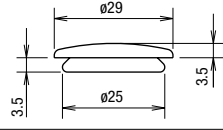
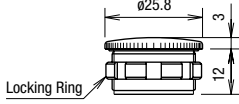
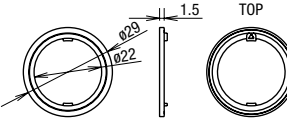
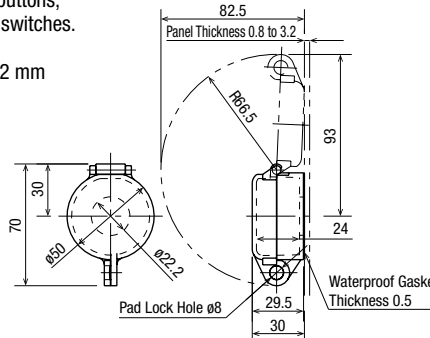


Metal Bezel

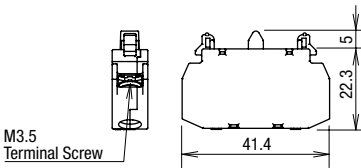
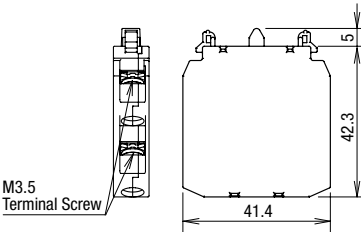
Contact Block Mounting Position



## Accessories

| Name & Shape                                                                        | Part No.    | Description & Dimensions (mm)                                                                                                                                                                                                                                                                            | Package Quantity |
|-------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|    | MW9Z-T1     | Metallic tool used to tighten the plastic locking ring when installing the YW series in a panel.                                                                                                                       | 1                |
|    | OR-55       | Made of rubber. Used for replacing lamps.                                                                                                                                                                             | 1                |
|    | OB-31PN05   | Used for plugging unused mounting holes in the panel.<br>Color: Black                                                                                                                                                 | 5                |
|    | LW9Z-BM     | Used for plugging unused mounting holes in the panel.<br>Weight: Approx. 18g                                                                                                                                          | 1                |
|   | HW9Z-RLPN10 | Prevents rotation of switches in panel.<br>Mainly used with selector switches when no nameplate is used.<br>With waterproof gasket (IP65).<br>Made of plastic (black).<br>Applicable panel thickness: 1.2 to 4.5 mm  | 10               |
|  | HW9Z-KL1    | Plastic hinged cover to protect pushbuttons, illuminated pushbuttons, or selector switches.<br>Degree of protection: IP65.<br>Applicable panel thickness: 0.8 to 3.2 mm                                              | 1                |

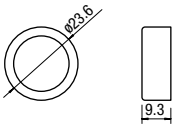
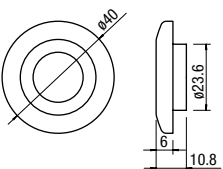
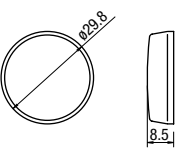
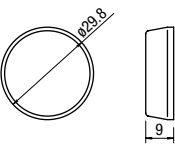
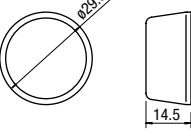
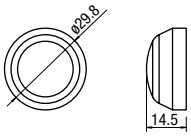
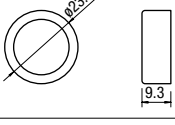
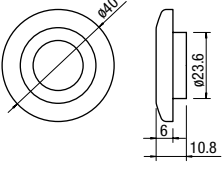
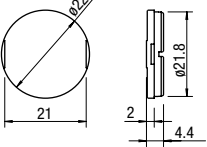
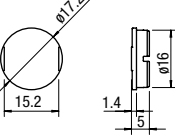
## Maintenance Parts

| Name & Shape                                                                                               | Part No.      | Description & Dimensions (mm) |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                   | Package Quantity |
|------------------------------------------------------------------------------------------------------------|---------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Single Contact Block<br>  | YW-E10        | Contact: 1NO                  | Color: blue                                                                                                                                                                                                                                                                                    |                                                                                 | 10               |
|                                                                                                            | YW-E01        | Contact: 1NC                  | Color: reddish purple                                                                                                                                                                                                                                                                          |                                                                                                                                                                   |                  |
| Double Contact Block<br> | YW-EW20       | Contact: 2NO                  | Color: blue                                                                                                                                                                                                                                                                                    | <br><br>Note: Double contact blocks cannot be used on emergency stop switches. | 10               |
|                                                                                                            | YW-EW02       | Contact: 2NC                  | Color: reddish purple                                                                                                                                                                                                                                                                          |                                                                                                                                                                   |                  |
|                                                                                                            | YW-EW11       | Contact: 1NO-1NC              | Color: blue and reddish purple                                                                                                                                                                                                                                                                 |                                                                                                                                                                   |                  |
| LED Lamp<br>            | LSED-6②       | 6V AC/DC                      | Specify a color code in place of ② in the Part No.:<br>A (amber), G (green), PW (pure white), R (red), S (blue), Y (yellow)<br>See <b>B-271</b> for applicable units and rated current.<br>Note: Yellow LED lamps are used for white illumination of pilot lights and illuminated pushbuttons. |                                                                                                                                                                   | 1                |
|                                                                                                            | LSED-1②       | 12V AC/DC                     |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                   |                  |
|                                                                                                            | LSED-2②       | 24V AC/DC                     |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                   |                  |
|                                                                                                            | LSED-H②       | 110V AC/DC                    |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                   |                  |
|                                                                                                            | LSED-M3②      | 230/240V AC/DC                |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                   |                  |
| Incandescent Lamp<br>   | LS-T6P        | 6.3V, 1W                      | One pack contains 100 incandescent lamps.                                                                                                                                                                                                                                                      |                                                                                                                                                                   | 100              |
|                                                                                                            | LS-T8P        | 18V, 1W                       |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                   |                  |
|                                                                                                            | LS-T3P        | 30V, 1W                       |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                   |                  |
| Spare Key<br>           | YW9Z-SK00PN02 |                               |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                   | 2                |



## Maintenance Parts

## Buttons, Lenses, and Marking Plates

| Name                                           | Style          | Part No.        | ① ②<br>Color Code                                                              | Dimensions (mm)                                                                       | Package<br>Quantity |
|------------------------------------------------|----------------|-----------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------|
| Button<br>(for pushbuttons)                    | Extended       | YW9Z-B12①PN10   | B: black<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow             |    | 10                  |
|                                                | Mushroom ø40mm | YW9Z-B14①PN10   |                                                                                |    |                     |
| Lens<br>(for pilot lights)                     | Flush          | YW9Z-PL11②PN10  | A: amber<br>C: clear<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow |    | 10                  |
|                                                | Flush Marking  | YW9Z-PL11B②PN10 | A: amber<br>C: clear<br>G: green<br>R: red<br>S: blue<br>Y: yellow             |    | 10                  |
|                                                | Extended       | YW9Z-PL12T②PN10 | A: amber<br>C: clear<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow |  | 10                  |
|                                                | Dome           | YW9Z-PL12②PN10  | A: amber<br>C: clear<br>G: green<br>R: red<br>S: blue<br>W: white<br>Y: yellow |  | 10                  |
|                                                |                |                 |                                                                                |                                                                                       |                     |
| Lens<br>(for illuminated pushbuttons)          | Extended       | YW9Z-L12②PN10   | A: amber<br>C: clear<br>G: green<br>R: red<br>S: blue<br>Y: yellow             |  | 10                  |
|                                                | Mushroom ø40mm | YW9Z-L14②PN10   |                                                                                |  |                     |
| Marking Plate<br>(for pilot lights)            | —              | YW9Z-PP12PN10   | —                                                                              |  | 10                  |
| Marking Plate<br>(for illuminated pushbuttons) | —              | YW9Z-P12PN10    | —                                                                              |  | 10                  |

## Nameplates

### HWAM, HWAQ, HWAS, and HWAV

| Name | Legend                          | Material                         | Part No. | Ordering No. | Package Quantity | Dimensions (mm)                                                       |
|------|---------------------------------|----------------------------------|----------|--------------|------------------|-----------------------------------------------------------------------|
| HWAM | Order marking plate separately. | Plastic (black)<br>1.5 mm thick  | HWAM     | HWAM         | 1                |                                                                       |
|      |                                 |                                  |          | HWAMPN10     | 10               |                                                                       |
| HWAQ | Order marking plate separately. | Plastic (black)<br>1.5 mm thick  | HWAQ     | HWAQ         | 1                |                                                                       |
|      |                                 |                                  |          | HWAQPN10     | 10               |                                                                       |
| HWAQ | Blank                           | Plastic (black)<br>1.5 mm thick  | HWAS-0   | HWAS-0       | 1                |                                                                       |
|      |                                 |                                  |          | HWAS-OPN10   | 10               |                                                                       |
| HWAV | Blank                           | Plastic (yellow)<br>1.5 mm thick | HWAV-0   | HWAV-0       | 1                | <p>• Legend "Emergency Stop" is indicated outside a ø44mm circle.</p> |
|      | EMERGENCY STOP                  |                                  | HWAV-27  | HWAV-27      | 1                |                                                                       |

### Making Plate

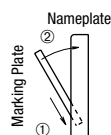
| Description | Material                         | Part No. | Ordering No. | Package Quantity | Dimensions (mm)                       |
|-------------|----------------------------------|----------|--------------|------------------|---------------------------------------|
| HWNP        | Aluminum (black)<br>1.0 mm thick | HWNP-*   | HWNP-*       | 1                | White legend on black background.<br> |
|             |                                  |          | HWNP-*PN10   | 10               |                                       |

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

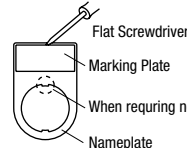
### Legends

| Code | Legend        |
|------|---------------|
| 0    | (blank)       |
| 1    | ON            |
| 2    | OFF           |
| 3    | START         |
| 4    | STOP          |
| 31   | OFF-ON        |
| 35   | HAND-AUTO     |
| 53   | HAND-OFF-AUTO |

• Installing the marking plate on a nameplate



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



When requiring no anti-rotation, remove the projection using pliers.

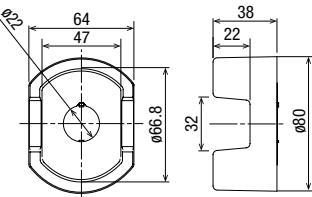
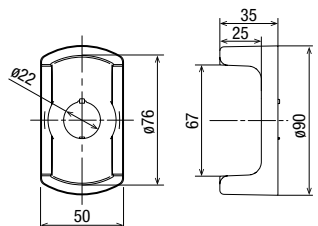
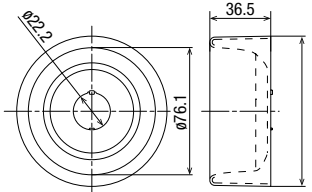
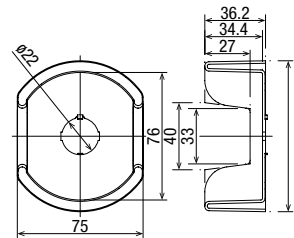
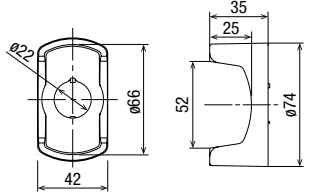
Note: When using an nameplate, the mounting panel thickness is decreased by 1.5 mm.



## ø22 YW Series Switches &amp; Pilot Lights

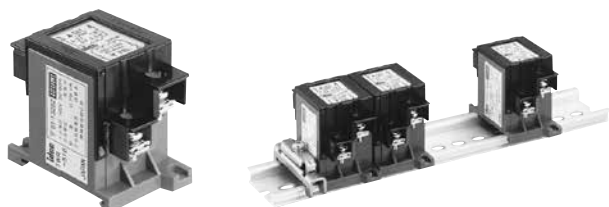
## Switch Guards

Package Quantity: 1

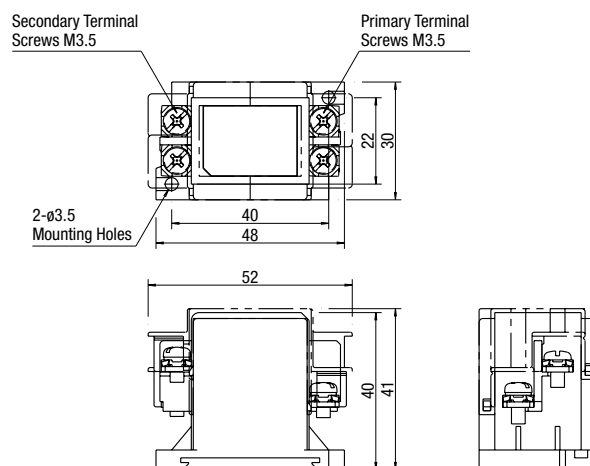
| Part No. & Shape (mm)                                                                                                                                              | Dimensions                                                                         | Part No. & Shape                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Dimensions (mm)                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <br>EMO Switch Guard<br>SEMI S2 compliant (Note 1)                                |   | <br>EMO Switch Guard<br>SEMI S2 compliant (Note 2)<br>SEMATECH compliant (Note 3)                                                                                                                                                                                                                                                                                                                             |  |
| <br>EMO Switch Guard<br>SEMI S2 compliant (Note 1)<br>SEMATECH compliant (Note 3) |   | <br>EMO Switch Guard<br>SEMI S2 compliant (Note 2)<br>SEMATECH compliant (Note 3)                                                                                                                                                                                                                                                                                                                             |  |
| <br>EMO Switch Guard<br>SEMI S2 compliant (Note 2)                                |  | Material: Polyamide (PA6)<br>Color: Yellow, Munsell 2.5Y 8/10 equivalent<br>Degree of protection: IP65<br>• Degree of protection IP65 applies to the combination of an emergency stop switch and an EMO switch guard.<br>Note 1: SEMI S2-0703 12.5.1 compliant.<br>Note 2: The combination of IDEC's emergency stop switches and EMO switch guards are approved by TÜV Rheinland for compliance with SEMI S2 standard.<br>Note 3: SEMATECH Application Guide for SEMI S2-93, 12.4.c. compliant. |                                                                                     |

## Transformer

## Din Rail Mount Transformer For 6V



## Dimensions (mm)



Note: Finger-safe terminal cover is supplied with the transformer.

| Primary Voltage (50/60 Hz) | Part No.       | Applicable Lamp Rating                                                                                         |
|----------------------------|----------------|----------------------------------------------------------------------------------------------------------------|
| 110V AC                    | <b>TWR516</b>  | One full voltage type illuminated unit containing LED lamp LSED-6 (6V AC/DC) or incandescent lamp LS-T6 (6.3V) |
| 115V AC                    | <b>TWR5116</b> |                                                                                                                |
| 120V AC                    | <b>TWR5126</b> |                                                                                                                |
| 220V AC                    | <b>TWR526</b>  |                                                                                                                |
| 230V AC                    | <b>TWR5236</b> |                                                                                                                |
| 240V AC                    | <b>TWR5246</b> |                                                                                                                |
| 380V AC                    | <b>TWR5386</b> |                                                                                                                |
| 440V AC                    | <b>TWR546</b>  |                                                                                                                |
| 480V AC                    | <b>TWR5486</b> |                                                                                                                |

## Accessories

When ordering, specify the Ordering No.

| Shape          | Material                  | Part No.       | Ordering No.       | Package Quantity | Dimensions (mm)                                         |
|----------------|---------------------------|----------------|--------------------|------------------|---------------------------------------------------------|
| DIN 35 mm Rail | Aluminum                  | <b>BAA1000</b> | <b>BAA1000PN10</b> | 10               | Length: 1000 mm<br>Weight: 200g approx.                 |
|                | Steel                     | <b>BAP1000</b> | <b>BAP1000PN10</b> | 10               | Length: 1000 mm<br>Weight: 320g approx.                 |
| End Clip       | Metal (zinc-plated steel) | <b>BNL6</b>    | <b>BNL6PN10</b>    | 10               | Applicable rail: AA1000, BAP1000<br>Weight: 15g approx. |

• See **H-071** for DIN rail products.For more information, visit <http://asia.idec.com>

## Safety Precautions

- Turn off the power to the YW series before starting installation, removal, wiring, maintenance, and inspection of the products. Failure to turn power off may cause electrical shocks or fire hazard.
- To avoid burning your hand, use the lamp holder tool when replacing lamps.

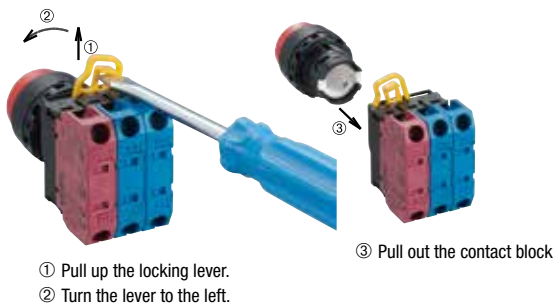
- For wiring, use wires of a proper size to meet the voltage and current requirements. Tighten the M3.5 terminal screws to a tightening torque of 1.0 N·m. Failure to tighten the terminal screws may cause overheating and fire.

## Instructions

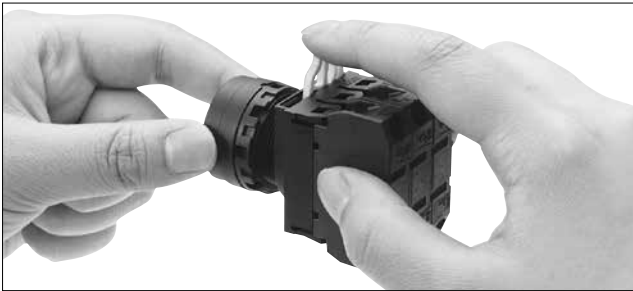
### Panel Mounting

- Remove the contact block from the operator (for pilot lights, remove the transformer or full voltage unit from the pilot light). 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.

### Removing and Installing the Contact Block

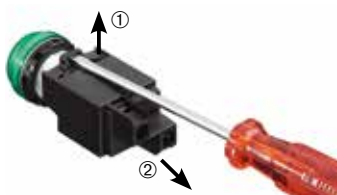


1. To remove the operator from the contact block, pull up the locking lever and turn it to the left. Then the operator can be pulled out.
2. To reinstall, place the TOP marking on the operator and the TOP marking on the contact block mounting adapter in the same direction, and insert the operator into the contact block mounting adapter. Then turn the locking lever to the right.

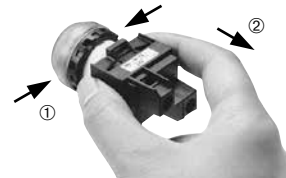


### Removing and Installing the Transformer

1. Insert a flat screwdriver (5 mm wide at maximum) into the latch hole on the transformer unit as shown in the photo below, and disengage the latch. Then pull out the operator.
2. To reinstall, place the TOP marking on the operator and the latch in the same direction, and push the operator into the transformer.



### Removing the Full Voltage Unit



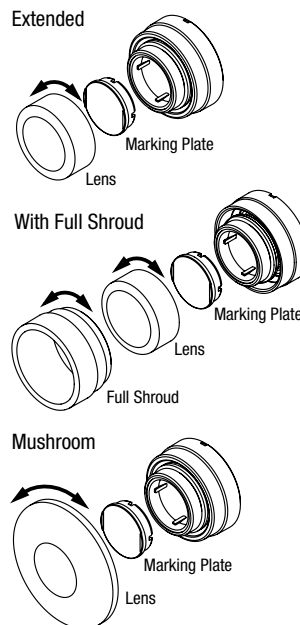
1. To remove the full voltage unit, squeeze the full voltage unit from both sides to disengage the latch as shown, and pull it out. Like the transformer unit, the full voltage unit can also be pulled out by inserting a flat screwdriver into the latch hole as shown.
2. To reinstall, place the TOP markings on the operator and the latch on the full voltage unit in the same direction, and insert the operator into the full voltage unit.

### Notes for Panel Mounting

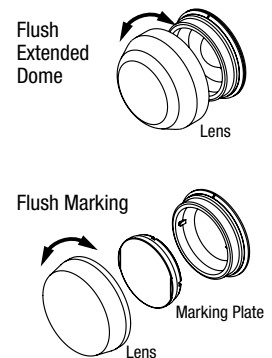
1. Use the optional locking ring wrench (MW9Z-T1) to mount the operator onto a panel. Tightening torque must not exceed 2.0 N·m. Do not use pliers. Excessive tightening will damage the locking ring.
2. For contact blocks and transformers housing LED and incandescent lamps, make sure not to press the lamps too hard, otherwise the lamp socket may be damaged.

### Insertion Order of Lens and Marking Plate

#### Illuminated Pushbutton



#### Pilot Light



APEM

Switches & Pilot Lights

Control Boxes

Emergency Stop Switches

Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator Interfaces

Sensors

AUTO-ID

Flush Silhouette

ø16

ø22

ø30

Miniature

Pilot Lights

HW

TW

YW

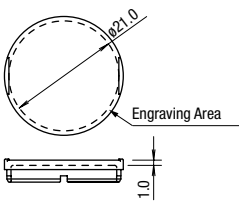
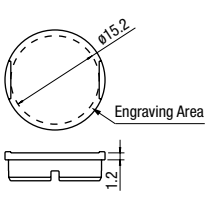
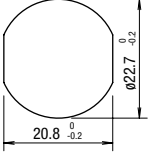
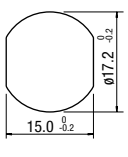


## Instructions

## Marking

For YW series pilot lights and illuminated pushbuttons, legends and symbols can be engraved on built-in marking plates, or printed mylar film can be inserted under the lens for labeling purposes. Mylar film is not supplied with the YW series and must be supplied by the end user.

## Built-in Marking Plate and Marking Film Size

| Unit                    | Pilot Light                                                                                                                                                                   | Illuminated Pushbutton                                                            |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Built-in Marking Plate  |                                                                                              |  |
|                         | Engraving depth: 0.5 mm maximum<br>Marking plate material: White acrylic                                                                                                      |                                                                                   |
| Applicable Marking Film |                                                                                              |  |
|                         | 0.1-mm-thick × 2 sheets or 0.2-mm-thick × 1 sheet<br>Film material: Mylar (recommended)<br>Note: Marking film is not supplied with the pilot light or illuminated pushbutton. |                                                                                   |

## Replacement (LED and incandescent lamps)

Lamps can be replaced using the lamp holder tool (OR-55) from the front of the panel, or by removing the contact block from the operator unit.

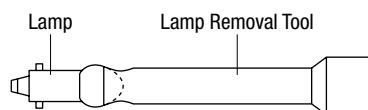
## Removing the Lamp from the Front of the Panel



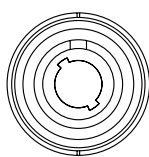
To remove, gently insert the lamp holder tool onto the lamp head. Then push slightly, and turn the lamp holder tool to the left.

## Installing the Lamp from the Front of the Panel

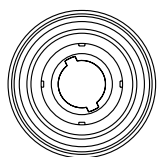
1. To install, insert the lamp head into the lamp holder tool, and hold the lamp as shown in the figure below.



2. Place the pins on the lamp base to the grooves in the lamp socket. Insert the lamp and turn it to the right.



Pilot Light

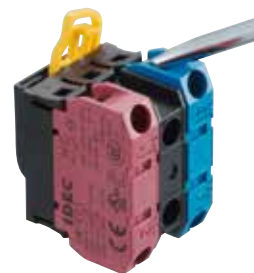


Illuminated Pushbutton

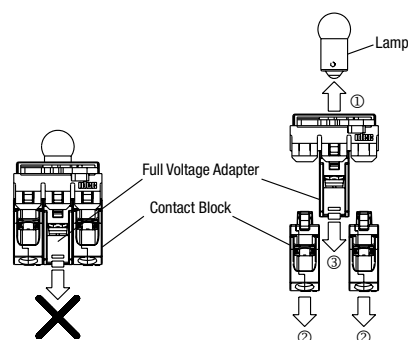
Note: LED lamps in unibody pilot lights cannot be replaced.

## Removing Contact Blocks and Full Voltage Adapters

Insert a flat screwdriver between the latch and contact block mounting adapter, and disengage the latch.



Make sure to remove the lamp and contact blocks before removing the full voltage adapter.

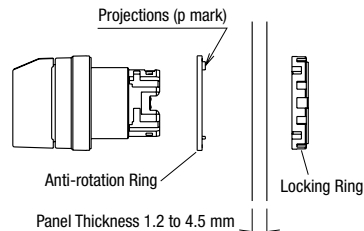


## Tightening Torque for Terminal Screws

Tighten terminal screws to a torque of 1.0 N·m.

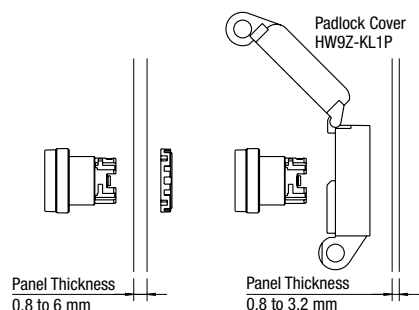
## Anti-rotation Ring and Mounting Panel

Turn the TOP marking on the operator and the ▲ mark on the anti-rotation ring to the recess on the mounting panel.



## Mounting Panel Thickness

The mounting panel must be 0.8 to 6.0 mm in thickness. When optional accessories are added, the applicable panel thickness changes as shown below.



## Contact Bounce

When pressing or turning the operator, the NC and NO contacts will bounce. When designing a control circuit, take the contact bounce time into consideration (reference value: 20 ms).

|                         |
|-------------------------|
| APEM                    |
| Switches & Pilot Lights |
| Control Boxes           |
| Emergency Stop Switches |
| Enabling Switches       |
| Safety Products         |
| Explosion Proof         |
| Terminal Blocks         |
| Relays & Sockets        |
| Circuit Protectors      |
| Power Supplies          |
| LED Illumination        |
| Controllers             |
| Operator Interfaces     |
| Sensors                 |
| AUTO-ID                 |

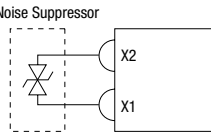
|                  |
|------------------|
| Flush Silhouette |
| ø16              |
| ø22              |
| ø30              |
| Miniature        |
| Pilot Lights     |

|    |
|----|
| HW |
| TW |
| YW |

## Instructions

### Precautions for Noise

When using the unibody pilot light in an environment where it is subjected to noise, connect a noise suppressor across terminals X1 and X2 as shown below.



### Key Selector Switch

Before operation, ensure that the key is inserted into the key hole completely. Operating the key selector switch with a loose key will cause damage to the key selector switch.

### LED Illumination

LED lamps consist of semiconductors. If the applied voltage exceeds the rated voltage, LED elements deteriorate due to overheat, resulting in significant decrease in brightness, hue change, or failure of lighting. Also, if extraneous noise, transient voltage, or transient current is applied to the circuit, similar effects will be caused. When using LED lamps, observe the following instructions.

#### Rated Voltage

The LED illuminated units are rated at 6V, 12V, 24V, 110V, or 230/240V AC/DC, and can be used within  $\pm 10\%$  the rated voltage of either AC or DC, except the 230/240V AC/DC types can be used on 250V AC/DC maximum.

#### DC Power

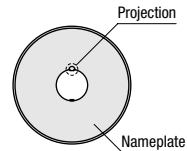
1. Switching power supply  
Regulated voltage from a switching power supply is best suited. Make sure to use within the rated voltage of the LED lamp.
2. Rechargeable battery  
Note that the battery voltage may exceed the rated voltage of the LED lamp while the battery is being charged and immediately after the charging is complete. Be sure to use the LED lamp on a voltage of  $\pm 10\%$  the rated voltage, except the 230/240V AC/DC types on 250V AC/DC maximum.
3. Full-wave rectification  
Since the LED lamp is AC/DC compatible, a diode bridge for rectification is not necessary. If the LED lamp is used on a full-wave rectification current through a diode bridge, the rectifier diodes will reduce the voltage, resulting in lower brightness.
4. Single-phase half-wave rectification  
This is not suitable for the power source of LED lamps. Use constant-voltage DC power.

#### Noise

LED elements deteriorate due to extraneous noise, resulting in significant decrease in brightness, hue change, or failure of lighting. When such effects are anticipated, take a protection measure shown below, such as RC elements or a surge absorber.

### Nameplate

When anti-rotation is not required, remove the projection from the nameplate using pliers.

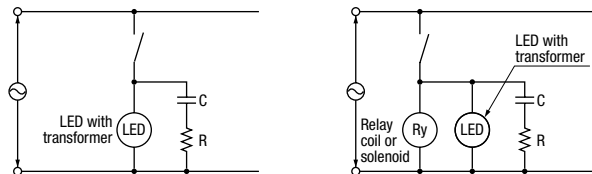


### Handling

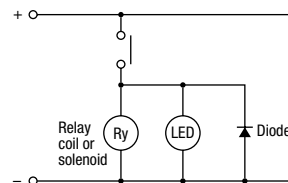
Do not expose the switch to excessive shock and vibration, otherwise the switch may be deformed or damaged, causing malfunction or operation failure.



#### [Protection Example 1] For AC circuit



#### [Protection Example 2] For DC circuit

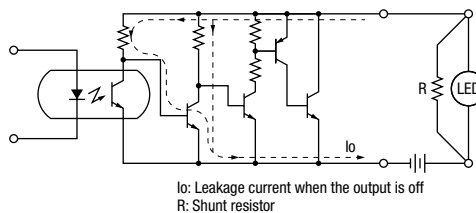


#### Countermeasures against Dim Lighting

1. Leakage current through transistors or a contact protection circuit may cause the LED lamp to illuminate dimly even when the output is off.
2. When the LED lamp is illuminated by a transistor output, take the following measure.

#### [Circuit Example]

Connect shunt resistor R in parallel with the LED lamp.



## Ordering Information

- When ordering, specify the Part No. and quantity.
- Replacement contact blocks are supplied in a package containing 10 pieces.

