Think Automation and beyond...

## IIDEC

## ø22mm YW Series Control Units



# Innovative Design Enables Space-Saving and Safety With Reliable Self-Cleaning Contacts 



New Contact Blocks


Retained Locking Lever


The innovative plastic locking lever is retained and eliminates the need for a separate lever lock.
To lock the locking lever with an operator installed, simply turn the locking lever to the right as viewed from the back. The latch inside the locking lever firmly retains the locking lever and withstands vibrations.
To unlock the locking lever, pull out the latch inside the locking lever and turn the locking lever to the left, then the operator can be removed from the contact blocks.

A new contact block design reduces the depth of pushbuttons, illuminated pushbuttons, and selector switches behind the panel. The new contact blocks are only 10 mm thick, so three contact blocks can mount in one deck. The full-voltage adapter for illuminated pushbuttons is also only 10 mm thick, so it can be mounted along with two contact blocks on the same deck.

CB: Contact block
FA: Full-voltage adapter


## Heavy-Duty Rugged Construction

The YW series control units are designed to withstand harsh operating conditions in factory environments. The rugged mechanical design provides reliability in critical switching applications.

## Self-Cleaning Wiping-Action Contacts with Scored Contact Surface

The YW contact blocks feature a wiping action on the movable contact and scored contact surfaces for higher contact reliability. The contacts can switch a wide range of loads from 5 mA at 3 V DC up to 10 A at 120 V AC.


## Wiping Action

After touching the stationary contact, the movable contact starts to wipe and cleans the contact surfaces.

(3) Fully Depressed
(1) Normal State
(2) Wiping


## Integrated Finger-safe Terminal Cover Degree of Protection: IP20

The new YW contact blocks, full-voltage adapter, and pilot light terminals feature integrated finger-safe terminal covers to prevent electrical shocks and ensure a high degree of safety during wiring and maintenance.

## Emergency Stop Switches



## Satisfy International Standards

- Safety Lock Mechanism

If any part of the body inadvertently touches the pushbutton, the contacts will not open until the operator mechanism is locked. This feature prevents unintentional operation of the emergency switch (compliant to EN418).

## - Direct Opening Function

Even if the contacts become welded together, an operating force applied to the pushbutton forces the NC contacts to open and ensures a break in the circuit (compliant to IEC 60947-5-1, Annex K).

## - Safe Pushbutton Design

The mushroom pushbutton is designed to ensure that an object cannot become trapped between the mushroom button and the panel, disabling the button operation. In addition, the pushbutton is designed to prevent any tampering from the front of the panel.

## YW Series Control Units

## Space-saving, 10-mm-thick contact blocks <br> Removable operator

- Compact and light-weight
- IP20 finger-safe screw terminals (IEC 60529)
- Separate contact block makes installation and removal easy.
- Pilot lights feature a large lens for a wide viewing angle.
- Matted surfaces on the buttons, lenses, and bezels reduce reflection of ambient light.
- UL, c-UL listed, EN compliant, and CCC approved (except for emergency stop switches).



## Contact Ratings (Contact Block)

| Rated Insulation Voltage |  | 600 V |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Rated Thermal Current |  | 10A |  |  |  |
| Operating Voltage |  | 24 V | 120 V | 240 V | 380 V |
| $\begin{aligned} & A C \\ & 50 / 60 \mathrm{~Hz} \end{aligned}$ | 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 Lamp Ratings

| Type No. | Rated Voltage | Rated Current | Color Code |
| :--- | :--- | :--- | :--- |
| LSED-6(2) | 6 V AC/DC | $10 \mathrm{~mA}(\mathrm{~A}, \mathrm{R}, \mathrm{Y})$ <br> $7 \mathrm{~mA}(\mathrm{G}, \mathrm{PW}, \mathrm{S})$ | A (amber) |

Note: Specify a color code in place of (2) in the Type No.
Yellow LED lamps are used for white illumination of pilot lights and illuminated pushbuttons.

## Incandescent Lamp Ratings

| Type No. | Rated Voltage | Ratings |
| :--- | :--- | :--- |
| LS-T6 | $6 \mathrm{~V} \mathrm{AC/DC}$ | 6.3 V 1 W |
| LS-T8 | $12 \mathrm{~V} \mathrm{AC/DC}$ | 18 V 1 W |
| LS-T3 | $24 \mathrm{~V} \mathrm{AC/DC}$ | 30 V 1 W |

## Mounting Hole Layout



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

## Specifications

| Operating Conditions | Operating temperature: -20 to $+55^{\circ} \mathrm{C}$ (no freezing)  <br> Operating humidity: 45 to $85 \% \mathrm{RH}$ (no condensa- <br> tion)  |
| :---: | :---: |
| Degree of Protection | From panel front: IP65 (IEC 60529) <br> Terminal: IP20 (IEC 60529) |
| Insulation Resistance | $100 \mathrm{M} \Omega$ |
| Dielectric Strength | Contact block: $2,500 \mathrm{~V}, 1$ minute <br> Pilot light: $2,000 \mathrm{~V}, 1$ minute |
| Vibration Resistance | <Emergency stop switch> Operating extremes / Damage limits: <br> 10 to 500 Hz , amplitude 0.35 mm , acceleration $50 \mathrm{~m} / \mathrm{s}^{2}$ <Pushbutton, pilot light, illuminated pushbutton, and selector switch> <br> Operating extremes: 5 to 55 Hz , amplitude 0.5 mm <br> Damage limits: $\quad 30 \mathrm{~Hz}$, amplitude 1.5 mm |
| Shock Resistance | <Emergency stop switch>  <br> Operating extremes: $\quad 150 \mathrm{~m} / \mathrm{s}^{2}(15 \mathrm{G})$  <br> Damage limits: $1,000 \mathrm{~m} / \mathrm{s}^{2}(100 \mathrm{G})$ <br> <Pushbutton, pilot light, illuminated pushbutton, and  <br> selector switch>  <br> Operating extremes: $100 \mathrm{~m} / \mathrm{s}^{2}(10 \mathrm{G})$ <br> Damage limits: $1,000 \mathrm{~m} / \mathrm{s}^{2}(100 \mathrm{G})$ <br>   |
| Mechanical Life (minimum operations) |  |
| Electrical Life (minimum operations) | <Emergency stop switch> 100,000 (single contact block) <Pushbutton and selector switch> 100,000 (single contact block) 50,000 (double contact block) |


| Unit | A (mm) | B (mm) |
| :--- | :---: | :---: |
| Emergency stop switch | 50 min. | 50 min. |
| Pushbutton <br> Selector switch | 50 min. | 30 min. |
| Mushroom pushbutton | 50 min. | 40 min. |
| Pilot light | $30 \mathrm{~min} . *$ | 30 min. |

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


## Emergency Stop Switches



## Dimensions



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

## Illuminated Emergency Stop Switches

| Style | Illumination Type | Operation | Contacts | Type No. | (3) Operating Voltage Code | Lens Color Code |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mushroom ø40mm | Without Lamp | Pushlock Pull/Turn Reset | 1NC | YW1L-V4E01Q0R | 0 (without lamp) 250V AC/DC max. | Red only |
|  |  |  | 2NC | YW1L-V4E02Q0R |  |  |
|  |  |  | 1NO-1NC | YW1L-V4E11Q0R |  |  |
|  |  |  | 1NC | YW1L-V4E01Q3R | $\begin{aligned} & 2 \text { (6V AC/DC) } \\ & 3 \text { (12V AC/DC) } \end{aligned}$ |  |
|  | LED |  | 2NC | YW1L-V4E02Q3R | 4 (24V AC/DC) |  |
|  |  |  | 1NO-1NC | YW1L-V4E11Q3R | $\begin{aligned} & \mathrm{H}(110 \mathrm{~V} \text { AC/DC) } \\ & \text { M3 (230/240V AC/DC) } \end{aligned}$ |  |
|  |  |  | 1NC | YW1L-V4E01Q3R | 5 (6V AC/DC) |  |
|  | Incandescent |  | 2NC | YW1L-V4E02Q3R | 6 (12V AC/DC) |  |
|  |  |  | 1NO-1NC | YW1L-V4E11Q3R | 7 (24V AC/DC) |  |

Note: Specify an operating voltage code in place of (3) in the Type No.

## Dimensions



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


## Pushbuttons



[^0]
## Dimensions (Pushbuttons)



- Flush

- Extended

- Mushroom


All dimensions in mm

## Pilot Lights

| Style | Illumination Type | Operating Voltage | Type No. | (2) Lens Color Code |
| :---: | :---: | :---: | :---: | :---: |
| Flush Full Voltage | Without Lamp | 250V AC/DC max. | YW1P-1EQ0 ${ }^{2}$ | $\begin{aligned} & \text { A (amber), C (clear), } \\ & \text { G (green), R (red), S (blue), } \\ & \text { W (white), Y (yellow) } \end{aligned}$ |
|  | LED | 6V AC/DC | YW1P-1EQ2 ${ }^{2}$ | A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-(3)(2) |
|  |  | 12V AC/DC | YW1P-1EQ3 ${ }^{\text {2 }}$ |  |
|  |  | 24V AC/DC | YW1P-1EQ4² |  |
|  |  | 110V AC/DC | YW1P-1EQH(2) |  |
|  |  | 230/240V AC/DC | YW1P-1EQM3(2) |  |
|  | Incandescent | 6V AC/DC | YW1P-1EQ5 (2) | A (amber), C (clear), <br> G (green), R (red), S (blue), <br> W (white), Y (yellow) <br> Built-in incandescent lamp: LS-T(3) |
|  |  | 12V AC/DC | YW1P-1EQ6(2) |  |
|  |  | 24V AC/DC | YW1P-1EQ7(2) |  |
| Flush <br> Transformer Type | LED | 100/110V AC | YW1P-1EH2 ${ }^{(2)}$ | A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-6²) |
|  |  | 200/220V AC | YW1P-1EM2 ${ }^{2}$ |  |
|  |  | 115/120V AC | YW1P-1EH22(2) |  |
|  |  | 230/240V AC | YW1P-1EM42 ${ }^{2}$ |  |
|  | Incandescent | 100/110V AC | YW1P-1EH5 ${ }^{(2)}$ | 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-1EM5 ${ }^{2}$ |  |
|  |  | 115/120V AC | YW1P-1EH25 ${ }^{2}$ |  |
|  |  | 230/240V AC | YW1P-1EM45 ${ }^{(2)}$ |  |
| Flush Marking Type Full Voltage | Without Lamp | 250V AC/DC max. | YW1P-1BEQ0²) | A (amber), G (green), R (red), S (blue), W (white), Y (yellow) |
|  | LED | 6V AC/DC | YW1P-1BEQ2(2) | A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-(3)(2) |
|  |  | 12V AC/DC | YW1P-1BEQ3(2) |  |
|  |  | 24V AC/DC | YW1P-1BEQ4(2) |  |
|  |  | 110 V AC/DC | YW1P-1BEQH(2) |  |
|  |  | 230/240V AC/DC | YW1P-1BEQM3 ${ }^{2}$ |  |
|  | Incandescent | 6V AC/DC | YW1P-1BEQ5 ${ }^{(2)}$ | A (amber), G (green), R (red), S (blue), W (white), Y (yellow) Built-in incandescent lamp: LS-T(3) |
|  |  | 12V AC/DC | YW1P-1BEQ6(2) |  |
|  |  | 24V AC/DC | YW1P-1BEQ7② |  |
| Flush Marking Type Transformer Type | LED | 100/110V AC | YW1P-1BEH2 ${ }^{(2)}$ | A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-6² |
|  |  | 200/220V AC | YW1P-1BEM2 ${ }^{(2)}$ |  |
|  |  | 115/120V AC | YW1P-1BEH22 (2) |  |
|  |  | 230/240V AC | YW1P-1BEM42 ${ }^{2}$ |  |
|  | Incandescent | 100/110V AC | YW1P-1BEH5 ${ }^{(2)}$ | A (amber), G (green), R (red), S (blue), W (white), Y (yellow) Built-in incandescent lamp: LS-T6 |
|  |  | 200/220V AC | YW1P-1BEM5 (2) |  |
|  |  | 115/120V AC | YW1P-1BEH25② |  |
|  |  | 230/240V AC | YW1P-1BEM45 (2) |  |

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

| Style | Illumination Type | Operating Voltage | Type No. | (2) Lens Color Code |
| :---: | :---: | :---: | :---: | :---: |
| Extended Full Voltage | Without Lamp | 250V AC/DC max. | YW1P-2TEQ0® | $\begin{array}{\|l\|} \hline \text { A (amber), C (clear), } \\ \text { G (green), R (red), S (blue), } \\ \text { W (white), Y (yellow) } \\ \hline \end{array}$ |
|  | LED | 6V AC/DC | YW1P-2TEQ2 | A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-(3)(2) |
|  |  | 12V AC/DC | YW1P-2TEQ3(2) |  |
|  |  | 24V AC/DC | YW1P-2TEQ4② |  |
|  |  | 110V AC/DC | YW1P-2TEQH ${ }^{(2)}$ |  |
|  |  | 230/240V AC/DC | YW1P-2TEQM3 ${ }^{2}$ |  |
|  | Incandescent | 6V AC/DC | YW1P-2TEQ5 | A (amber), C (clear), <br> G (green), R (red), S (blue), <br> W (white), Y (yellow) <br> Built-in incandescent lamp: LS-T(3) |
|  |  | 12V AC/DC | YW1P-2TEQ6② |  |
|  |  | 24V AC/DC | YW1P-2TEQ7② |  |
| Extended Transformer Type | LED | 100/110V AC | YW1P-2TEH2 [2) | A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-6²) |
|  |  | 200/220V AC | YW1P-2TEM2 ${ }^{2}$ |  |
|  |  | 115/120V AC | YW1P-2TEH22 |  |
|  |  | 230/240V AC | YW1P-2TEM42® |  |
|  | Incandescent | 100/110V AC | YW1P-2TEH5 (2) | 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-2TEM5 (2) |  |
|  |  | 115/120V AC | YW1P-2TEH25② |  |
|  |  | 230/240V AC | YW1P-2TEM45② |  |
| Dome Full Voltage | Without Lamp | 250V AC/DC max. | YW1P-2EQ0 ${ }^{2}$ | $\begin{aligned} & \text { A (amber), C (clear), } \\ & \text { G (green), R (red), S (blue), } \\ & \text { W (white), Y (yellow) } \\ & \hline \end{aligned}$ |
|  | LED | 6V AC/DC | YW1P-2EQ2 ${ }^{2}$ | A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-(3)2 |
|  |  | 12V AC/DC | YW1P-2EQ3 ${ }^{2}$ |  |
|  |  | 24V AC/DC | YW1P-2EQ4 ${ }^{2}$ |  |
|  |  | 110V AC/DC | YW1P-2EQH ${ }^{2}$ |  |
|  |  | 230/240V AC/DC | YW1P-2EQM3 (2) |  |
|  | Incandescent | 6V AC/DC | YW1P-2EQ5 ${ }^{2}$ | $\begin{aligned} & \text { A (amber), C (clear), } \\ & \text { G (green), R (red), S (blue), } \\ & \text { W (white), Y (yellow) } \\ & \text { Built-in incandescent lamp: LS-T(3) } \end{aligned}$ |
|  |  | 12V AC/DC | YW1P-2EQ6 ${ }^{2}$ |  |
|  |  | 24V AC/DC | YW1P-2EQ7 ${ }^{2}$ |  |
| Dome <br> Transformer Type | LED | 100/110V AC | YW1P-2EH2 ${ }^{(2)}$ | A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-6² |
|  |  | 200/220V AC | YW1P-2EM2 (2) |  |
|  |  | 115/120V AC | YW1P-2EH22② |  |
|  |  | 230/240V AC | YW1P-2EM42② |  |
|  | Incandescent | 100/110V AC | YW1P-2EH5 (2) | 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-2EM5 [2 |  |
|  |  | 115/120V AC | YW1P-2EH25 [2) |  |
|  |  | 230/240V AC | YW1P-2EM45② |  |

[^1]Dimensions (Pilot Lights)

- Flush

Full Voltage


Transformer Type


- Extended

Full Voltage


## Transformer Type



- Flush Marking Type

Full Voltage


Transformer Type


## - Dome

Full Voltage


## Transformer Type



All dimensions in mm .

## Illuminated Pushbuttons

| Style | Illumination Type | Operation | Contacts | Type No. | (3) Operating Voltage Code | (2) Lens Color Code |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Extended | Without Lamp | Momentary | 1NO | YW1L-M2E10Q0® | 0 (without lamp) 250V AC/DC max. | A (amber) <br> G (green) <br> R (red) <br> $S$ (blue) <br> W (white) <br> Y (yellow) |
|  |  |  | 1NC | YW1L-M2E01Q0 ${ }^{2}$ |  |  |
|  |  |  | 2NO | YW1L-M2E20Q0² |  |  |
|  |  |  | 2NC | YW1L-M2E02Q0² |  |  |
|  |  |  | 1NO-1NC | YW1L-M2E11Q0² |  |  |
|  |  | Maintained | 1NO | YW1L-A2E10Q0 ${ }^{2}$ |  |  |
|  |  |  | 1NC | YW1L-A2E01Q0② |  |  |
|  |  |  | 2NO | YW1L-A2E20Q0② |  |  |
|  |  |  | 2NC | YW1L-A2E02Q0② |  |  |
|  |  |  | 1NO-1NC | YW1L-A2E11Q0(2) |  |  |
|  | LED | Momentary | 1 NO | YW1L-M2E10Q(3)(2) | $2(6 \mathrm{~V} \mathrm{AC/DC})$$3(12 \mathrm{~V} \mathrm{AC/DC})$$4(24 \mathrm{~V} \mathrm{AC/DC})$H (110V AC/DC)M3 (230/240V AC/DC) | A (amber) G (green) PW (pure white) R (red) S (blue) W (white) $Y$ (yellow) Built-in LED lamp: LSED-(3) 2 |
|  |  |  | 1NC | YW1L-M2E01Q(3)(2) |  |  |
|  |  |  | 2NO | YW1L-M2E20Q(3)2 |  |  |
|  |  |  | 2NC | YW1L-M2E02Q(3)(2) |  |  |
|  |  |  | 1NO-1NC | YW1L-M2E11Q(3)(2) |  |  |
|  |  | Maintained | 1NO | YW1L-A2E10Q(3)(2) |  |  |
|  |  |  | 1NC | YW1L-A2E01Q(3)(2) |  |  |
|  |  |  | 2NO | YW1L-A2E20Q(3)(2) |  |  |
|  |  |  | 2NC | YW1L-A2E02Q(3)(2) |  |  |
|  |  |  | 1NO-1NC | YW1L-A2E11Q(3)(2) |  |  |
|  | Incandescent | Momentary | 1NO | YW1L-M2E10Q(3)(2) | 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-T(3) |
|  |  |  | 1NC | YW1L-M2E01Q(3)(2) |  |  |
|  |  |  | 2NO | YW1L-M2E20Q(3)(2) |  |  |
|  |  |  | 2NC | YW1L-M2E02Q(3)(2) |  |  |
|  |  |  | 1NO-1NC | YW1L-M2E11Q(3)(2) |  |  |
|  |  | Maintained | 1NO | YW1L-A2E10Q(3)(2) |  |  |
|  |  |  | 1NC | YW1L-A2E01Q(3)(2) |  |  |
|  |  |  | 2NO | YW1L-A2E20Q(3)(2) |  |  |
|  |  |  | 2NC | YW1L-A2E02Q(3)(2) |  |  |
|  |  |  | 1NO-1NC | YW1L-A2E11Q(3)(2) |  |  |
| Extended with Full Shroud | Without Lamp | Momentary | 1NO | YW1L-MF2E10Q0² | 0 (without lamp) 250V AC/DC max. | A (amber) <br> G (green) <br> R (red) <br> S (blue) <br> W (white) <br> $Y$ (yellow) |
|  |  |  | 1NC | YW1L-MF2E01Q0② |  |  |
|  |  |  | 2NO | YW1L-MF2E20Q0② |  |  |
|  |  |  | 2NC | YW1L-MF2E02Q0² |  |  |
|  |  |  | 1NO-1NC | YW1L-MF2E11Q0² |  |  |
|  |  | Maintained | 1NO | YW1L-AF2E10Q0 ${ }^{2}$ |  |  |
|  |  |  | 1NC | YW1L-AF2E01Q0 ${ }^{\text {2 }}$ |  |  |
|  |  |  | 2NO | YW1L-AF2E20Q0② |  |  |
|  |  |  | 2NC | YW1L-AF2E02Q0② |  |  |
|  |  |  | 1NO-1NC | YW1L-AF2E11Q0 ${ }^{\text {2 }}$ |  |  |
|  | LED | Momentary | 1NO | YW1L-MF2E10Q(3)(2) | 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-(3)2 |
|  |  |  | 1NC | YW1L-MF2E01Q(3)2) |  |  |
|  |  |  | 2NO | YW1L-MF2E20Q3(2) |  |  |
|  |  |  | 2NC | YW1L-MF2E02Q(3)(2) |  |  |
|  |  |  | 1NO-1NC | YW1L-MF2E11Q3(2) |  |  |
|  |  | Maintained | 1NO | YW1L-AF2E10Q(3)2 |  |  |
|  |  |  | 1NC | YW1L-AF2E01Q(3)2 |  |  |
|  |  |  | 2NO | YW1L-AF2E20Q(3)2 |  |  |
|  |  |  | 2NC | YW1L-AF2E02Q(3)2 |  |  |
|  |  |  | 1NO-1NC | YW1L-AF2E11Q(3)2 |  |  |
|  | Incandescent | Momentary | 1 NO | YW1L-MF2E10Q(3)(2) | $\begin{aligned} & 5 \text { (6V AC/DC) } \\ & 6 \text { (12V AC/DC) } \\ & 7 \text { (24V AC/DC) } \end{aligned}$ | A (amber) <br> G (green) <br> R (red) <br> S (blue) <br> W (white) <br> Y (yellow) <br> Built-in incandescent lamp: <br> LS-T(3) |
|  |  |  | 1NC | YW1L-MF2E01Q(3)2 |  |  |
|  |  |  | 2NO | YW1L-MF2E20Q(3)2 |  |  |
|  |  |  | 2NC | YW1L-MF2E02Q(3)(2) |  |  |
|  |  |  | 1NO-1NC | YW1L-MF2E11Q3(2) |  |  |
|  |  | Maintained | 1NO | YW1L-AF2E10Q(3)2 |  |  |
|  |  |  | 1NC | YW1L-AF2E01Q(3)2 |  |  |
|  |  |  | 2NO | YW1L-AF2E20Q(3)2 |  |  |
|  |  |  | 2NC | YW1L-AF2E02Q(3)2 |  |  |
|  |  |  | 1NO-1NC | YW1L-AF2E11Q(3)2 |  |  |

Note: Specify a lens color code in place of (2) in the Type No.
Specify an operating voltage code in place of (3) in the Type No.

| Style | Illumination Type | Operation | Contacts | Type No. | (3) Operating Voltage Code | (2) Lens Color Code |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mushroom ø40mm | Without Lamp | Momentary | 1NO | YW1L-M4E10Q0²) | 0 (without lamp) 250V AC/DC max. | A (amber) <br> G (green) <br> $R$ (red) <br> S (blue) <br> W (white) <br> Y (yellow) |
|  |  |  | 1NC | YW1L-M4E01Q0② |  |  |
|  |  |  | 2NO | YW1L-M4E20Q0® |  |  |
|  |  |  | 2NC | YW1L-M4E02Q0② |  |  |
|  |  |  | 1NO-1NC | YW1L-M4E11Q0② |  |  |
|  |  | Maintained | 1NO | YW1L-A4E10Q0 ${ }^{\text {2 }}$ |  |  |
|  |  |  | 1NC | YW1L-A4E01Q0²) |  |  |
|  |  |  | 2NO | YW1L-A4E20Q0®2) |  |  |
|  |  |  | 2NC | YW1L-A4E02Q0② |  |  |
|  |  |  | 1NO-1NC | YW1L-A4E11Q0② |  |  |
|  | LED | Momentary | 1NO | YW1L-M4E10Q(3)(2) | $\begin{aligned} & 2 \text { (6V AC/DC) } \\ & 3 \text { (12V AC/DC) } \\ & 4 \text { (24V AC/DC) } \\ & \text { H (110V AC/DC) } \\ & \text { M3 (230/240V AC/DC) } \end{aligned}$ | A (amber) G (green) PW (pure white) R (red) S (blue) W (white) Y (yellow) Built-in LED lamp: LSED-(3)(2) |
|  |  |  | 1NC | YW1L-M4E01Q(3)(2) |  |  |
|  |  |  | 2NO | YW1L-M4E20Q(3)2 |  |  |
|  |  |  | 2NC | YW1L-M4E02Q(3)(2) |  |  |
|  |  |  | 1NO-1NC | YW1L-M4E11Q(3)2 |  |  |
|  |  | Maintained | 1NO | YW1L-A4E10Q(3)2 |  |  |
|  |  |  | 1NC | YW1L-A4E01Q(3)2 |  |  |
|  |  |  | 2NO | YW1L-A4E20Q3(2) |  |  |
|  |  |  | 2NC | YW1L-A4E02Q(3)2 |  |  |
|  |  |  | 1NO-1NC | YW1L-A4E11Q(3)2 |  |  |
|  | Incandescent | Momentary | 1NO | YW1L-M4E10Q(3)2 | $\begin{array}{\|l} 5 \text { ( } 6 \mathrm{~V} \mathrm{AC/DC)} \\ 6 \text { (12V AC/DC) } \\ 7 \text { (24V AC/DC) } \end{array}$ | A (amber) <br> G (green) <br> R (red) <br> S (blue) <br> W (white) <br> Built-in incandescent lamp: <br> LS-T(3) |
|  |  |  | 1NC | YW1L-M4E01Q(3)(2) |  |  |
|  |  |  | 2NO | YW1L-M4E20Q(3)2 |  |  |
|  |  |  | 2NC | YW1L-M4E02Q(3)2 |  |  |
|  |  |  | 1NO-1NC | YW1L-M4E11Q(3)(2) |  |  |
|  |  | Maintained | 1NO | YW1L-A4E10Q(3)2 |  |  |
|  |  |  | 1NC | YW1L-A4E01Q(3)2 |  |  |
|  |  |  | 2NO | YW1L-A4E20Q(3)2 |  |  |
|  |  |  | 2NC | YW1L-A4E02Q(3) ${ }^{\text {(2) }}$ |  |  |
|  |  |  | 1NO-1NC | YW1L-A4E11Q(3)2 |  |  |

Note: Specify a lens color code in place of (2) in the Type No.
Specify an operating voltage code in place of (3) in the Type No.

## Dimensions (Illuminated Pushbuttons)



- Extended

- Mushroom


All dimensions in mm.

## Selector Switches

| Style |  |  |  |  |  |  | Knob Type |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Positions | Contact Configuration | $\begin{gathered} \text { Con } \\ \text { Mount } \end{gathered}$ | ock sition | Op | R P | - | Maintained | Spring Return from Right | - | - |
|  |  | 1 | NO |  | - |  |  |  |  |  |
|  | $1 \mathrm{NO}$ | 2 |  |  |  |  | YW1S-2E10 | YW1S-21E10 | - | - |
|  |  | 3 |  |  |  |  |  |  |  |  |
|  |  | 1 |  |  |  |  |  |  |  |  |
|  | (01) | 2 | NC | $\bullet$ |  |  | YW1S-2E01 | YW1S-21E01 | - | - |
|  |  | 1 | NO |  | - |  |  |  |  |  |
|  | 2NO | 2 |  |  |  |  | YW1S-2E20 | YW1S-21E20 | - | - |
|  |  | 3 | NO |  | - |  |  |  |  |  |
|  |  | 1 | NC | $\bullet$ |  |  |  |  |  |  |
|  | (02) | 2 |  |  |  |  | YW1S-2E02 | YW1S-21E02 | - | - |
| 2-Position |  | 3 | NC | $\bigcirc$ |  |  |  |  |  |  |
| \| Z-Position |  | 1 | NO |  | $\bigcirc$ |  |  |  |  |  |
| L R | (11) | 2 |  |  |  |  | YW1S-2E11 | YW1S-21E11 | - | - |
| , |  | 3 | NC | $\bigcirc$ |  |  |  |  |  |  |
|  |  | 1 | NO |  | $\bigcirc$ |  |  |  |  |  |
|  | (30) | 2 | NO |  | - |  | YW1S-2E30 | YW1S-21E30 | - | - |
|  |  | 3 | NO |  | $\bigcirc$ |  |  |  |  |  |
|  |  | 1 | NC | $\bigcirc$ |  |  |  |  |  |  |
|  | (03) | 2 | NC | $\bigcirc$ |  |  | YW1S-2E03 | YW1S-21E03 | - | - |
|  |  | 3 | NC | $\bigcirc$ |  |  |  |  |  |  |
|  |  | 1 | NO |  | $\bigcirc$ |  |  |  |  |  |
|  | (21) | 2 | NO |  | $\bigcirc$ |  | YW1S-2E21 | YW1S-21E21 | - | - |
|  |  | 3 | NC | $\bigcirc$ |  |  |  |  |  |  |
|  |  | 1 | NO |  | - |  |  |  |  |  |
|  | (12) | 2 | NC | $\bigcirc$ |  |  | YW1S-2E12 | YW1S-21E12 | - | - |
|  |  | 3 | NC | $\bigcirc$ |  |  |  |  |  |  |
| No. of | Contact | Contact Block Mounting Position |  | Operator Position |  |  | Maintained | $\begin{aligned} & \text { Spring Return } \\ & \text { from Right } \\ & \hline \end{aligned}$ | Spring Return from Left | Spring Return Two-Way |
| Positions | Configuration |  |  | L | C | R |  |  |  |  |
| $45^{\circ}$ <br> 3-Position | $\begin{aligned} & 2 \mathrm{NO} \\ & (20) \end{aligned}$ | 1 | NO | $\bigcirc$ |  |  | YW1S-3E20 | YW1S-31E20 | YW1S-32E20 | YW1S-33E20 |
|  |  | 2 |  |  |  |  |  |  |  |  |
|  |  | 3 | NO |  |  | - |  |  |  |  |
|  | $\begin{gathered} \text { 2NO } \\ (20 \mathrm{~N} 1) \end{gathered}$ | 1 |  |  |  |  | YW1S-3E20N1 | YW1S-31E20N1 | YW1S-32E20N1 | YW1S-33E20N1 |
|  |  | 2 | NO | $\bigcirc$ |  | $\bigcirc$ |  |  |  |  |
|  |  | 3 | NO |  |  | $\bigcirc$ |  |  |  |  |
|  | $\begin{aligned} & \text { 2NC } \\ & (02) \end{aligned}$ | 1 | NC |  |  | - | YW1S-3E02 | YW1S-31E02 | YW1S-32E02 | YW1S-33E02 |
|  |  | 2 | NC |  | , |  |  |  |  |  |
|  | $\begin{gathered} \text { 2NC } \\ (02 N 1) \end{gathered}$ | 1 |  |  |  |  | YW1S-3E02N1 | YW1S-31E02N1 | YW1S-32E02N1 | YW1S-33E02N1 |
|  |  | 2 | NC |  | - |  |  |  |  |  |
|  |  | 3 | NC |  | - |  |  |  |  |  |
|  | $1 \mathrm{NO}-1 \mathrm{NC}$ <br> (11) | 1 | NO | $\bigcirc$ |  |  | YW1S-3E11 | YW1S-31E11 | YW1S-32E11 | YW1S-33E11 |
|  |  | 2 |  |  |  |  |  |  |  |  |
|  |  | 3 | NC |  | - |  |  |  |  |  |
|  | $\begin{gathered} \text { 1NO-1NC } \\ (11 \mathrm{~N} 1) \end{gathered}$ | 1 | NC |  |  | - | YW1S-3E11N1 | YW1S-31E11N1 | YW1S-32E11N1 | YW1S-33E11N1 |
|  |  | 2 |  |  |  |  |  |  |  |  |
|  |  | 3 | NO |  |  | - |  |  |  |  |
|  | $\begin{gathered} \text { 1NO-1NC } \\ (11 \mathrm{~N} 2) \end{gathered}$ | 1 | NO | $\bigcirc$ |  |  | YW1S-3E11N2 | YW1S-31E11N2 | YW1S-32E11N2 | YW1S-33E11N2 |
|  |  | 2 | NC |  | - |  |  |  |  |  |
|  | $\begin{gathered} \text { 1NO-1NC } \\ (11 \mathrm{~N} 3) \end{gathered}$ | 1 |  |  |  |  | YW1S-3E11N3 | YW1S-31E11N3 | YW1S-32E11N3 | YW1S-33E11N3 |
|  |  | 2 | NC |  | - |  |  |  |  |  |
|  |  | 3 | NO |  |  | $\bullet$ |  |  |  |  |
|  | $\begin{gathered} \text { 1NO-1NC } \\ (11 \mathrm{~N} 4) \end{gathered}$ | 1 |  |  |  |  | YW1S-3E11N4 | YW1S-31E11N4 | YW1S-32E11N4 | YW1S-33E11N4 |
|  |  | 2 | NO | $\bigcirc$ |  | - |  |  |  |  |
|  |  | 3 | NC |  | - |  |  |  |  |  |
|  | $\begin{aligned} & 3 N O \\ & (30) \end{aligned}$ | 1 | NO | $\bigcirc$ |  |  | YW1S-3E30 | YW1S-31E30 | YW1S-32E30 | YW1S-33E30 |
|  |  | 2 | NO | $\bigcirc$ |  | - |  |  |  |  |
|  |  | 3 | NO |  |  | $\bigcirc$ |  |  |  |  |
|  | $\begin{aligned} & 3 N C \\ & (03) \end{aligned}$ | 1 | NC |  |  | - | YW1S-3E03 | YW1S-31E03 | YW1S-32E03 | YW1S-33E03 |
|  |  | 2 | NC |  | - |  |  |  |  |  |
|  |  | 3 | NC |  | - |  |  |  |  |  |
|  | $\underset{(21)}{2 \mathrm{NO}-1 \mathrm{NC}}$ | 1 | NO | $\bigcirc$ |  |  | YW1S-3E21 | YW1S-31E21 | YW1S-32E21 | YW1S-33E21 |
|  |  | 2 | NC |  | - |  |  |  |  |  |
|  |  | 3 | NO |  |  | $\bigcirc$ |  |  |  |  |
|  | $1 \mathrm{NO}-2 \mathrm{NC}$ <br> (12) | 1 | NC |  |  |  | YW1S-3E12 | YW1S-31E12 | YW1S-32E12 | YW1S-33E12 |
|  |  | 2 | NO | $\bigcirc$ |  | - |  |  |  |  |
|  |  | 3 | NC | $\longrightarrow$ |  |  |  |  |  |  |

Contact Block Mounting Position
Contact Block Mounting Position


Dimensions (Selector Switch)



All dimensions in mm.

## Accessories

| Name \& Shape | Type No. | Description \& Dimensions (mm) | Package Quantity |
| :---: | :---: | :---: | :---: |
| Locking Ring Wrench | MW9Z-T1 | Metallic tool used to tighten the plastic locking ring when installing the YW series control unit on a panel. | 1 |
| Lamp Holder Tool | OR-55 | Made of rubber. Used for replacing lamps. | 1 |
| Rubber Mounting Hole Plug | OB-31PN05 | Used for plugging unused mounting holes in the panel. Color: Black | 5 |
| Metallic Mounting Hole Plug | LW9Z-BM | Used for plugging unused mounting holes in the panel. <br> Weight: Approx. 18g | 1 |
| Anti-Rotation Ring | 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 |



Buttons, Lenses, and Marking Plates

| Name | Style | Type No. | (1) (2) Color Code | Dimensions (mm) | Package Quantity |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Button (for pushbuttons) | Extended | YW9Z-B12®PN10 | B (black) <br> G (green) <br> R (red) <br> $S$ (blue) <br> W (white) <br> Y (yellow) |   <br> 9.3 |  |
|  | Mushroom ø40mm | YW9Z-B14①PN10 |  |  | 10 |
| Lens <br> (for pilot lights) | Flush | YW9Z-PL11®2PN10 | A (amber) <br> C (clear) <br> G (green) <br> R (red) <br> $S$ (blue) <br> W (white) <br> Y (yellow) |  | 10 |
|  | Flush Marking | YW9Z-PL11B(2PN10 | A (amber) <br> C (clear) <br> G (green) <br> R (red) <br> $S$ (blue) <br> Y (yellow) |  | 10 |
|  | Extended | YW9Z-PL12T(2)PN10 | A (amber) <br> C (clear) <br> G (green) <br> R (red) <br> $S$ (blue) <br> W (white) <br> Y (yellow) |  | 10 |
|  | Dome | YW9Z-PL12(2)PN10 |  |  | 10 |
| Lens (for illuminated pushbuttons) | Extended | YW9Z-L12(2)PN10 | A (amber) <br> C (clear) <br> G (green) <br> R (red) <br> $S$ (blue) <br> Y (yellow) |   <br> 9.3 | 10 |
|  | Mushroom $\varnothing 40 \mathrm{~mm}$ | YW9Z-L14(2)PN10 |  |  |  |
| Marking Plate (for pilot lights) | - | YW9Z-PP12PN10 | - |  | 10 |
| Marking Plate (for illuminated pushbuttons) | - | YW9Z-P12PN10 | - |  | 10 |

Nameplate

\begin{tabular}{|c|c|c|c|c|c|c|}
\hline Description \& Legend \& Material \& Type No. \& Ordering Type No. \& Package Quantity \& Dimensions (mm) \\
\hline HWAV \& Blank
EMERGENCY STOP \& Plastic (yellow) 1.5 mm thick \& \begin{tabular}{|l} 
HWAV-0 \\
\hline \\
HWAV-27
\end{tabular} \& HWAV-0
HWAV-27 \& 1

1 \& -Legend "Emergency Stop" is indicated outside a $\varnothing 44 \mathrm{~mm}$ circle. <br>
\hline
\end{tabular}

## EMO Switch Guards

| Type No. \& Appearance |
| :--- |
| HW9Z-KG1 |

## Separate DIN Rail Mounting Type Transformer



- Dimensions (mm)


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

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

## Safety Precautions

- Turn off the power to the YW series control units 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 replac-


## ing 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 to $1.3 \mathrm{~N} \cdot \mathrm{~m}$. 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) Pull up the locking lever.
(2) Turn the lever to the left.

(3) Pull out 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 idec 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 Unit

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 unit.


## - 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 $2.0 \mathrm{~N} \cdot \mathrm{~m}$. Do not use pliers. Excessive tightening will damage the locking ring.
2. For the contact blocks and transformers housing LED and incandescent lamps, make sure not to press the lamps too hard, otherwise the lamp socket may be impaired.

Insertion Order of Lens and Marking Plate

- Illuminated Pushbutton

- Pilot Light



## Marking

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

- Built-in Marking Plate and Marking Film Size

| Unit | Pilot Light |  |
| :--- | :--- | :--- | :--- | :--- | :--- |

- 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.


Illuminated Pushbutton

## Removing Contact Blocks and Full Voltage Adapter

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 between 1.0 and $1.3 \mathrm{~N} \cdot \mathrm{~m}$.

## Anti-rotation Ring and Mounting Panel

Turn the TOP marking on the operator and the $\mathbf{\Delta}$ mark on the antirotation 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 the button is reset by pulling or turning, the NC main contacts will bounce. When pressing the button, the NO monitor contacts will bounce.
When designing a control circuit, take the contact bounce time into consideration (reference value: 20 ms ).

## 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.


## Instructions

## 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 luminance, 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 $6 \mathrm{~V}, 12 \mathrm{~V}, 24 \mathrm{~V}, 110 \mathrm{~V}$, or $230 /$ 240 V 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 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 luminance.
4. Single-phase half-wave rectification

This is not suitable for the power source of LED lamps. Use con-stant-voltage DC power.

## - Noise

LED elements deteriorate due to extraneous noise, resulting in significant decrease in luminance, 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.
[Protection Example 1] For AC circuit


(Reference values) R: $120 \Omega$

## [Protection Example 2] For DC circuit



- Countermeasures against Dim Lighting

1. Leakage currents through the 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.


Io: Leakage current when the output is off R: Shunt resistor

## Ordering Information

[^2] 10 pieces.

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[^0]:    Note: Specify a button color code in place of (1) in the Type No.

[^1]:    Note: Specify a lens color code in place of (2) in the Type No.
    Clear lenses are used for PW (pure white) illumination of pilot lights.

[^2]:    - Replacement contact blocks are supplied in a package containing

