$\emptyset 22$ Switches \& Pilot Lights

## Y $\mathbf{N}_{\text {Series }}$



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 $\Theta$
- Safe Pushbutton Design


Easy Operation

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

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


## Unibody Pilot Lights

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



## Key Selector Switches

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


Plastic Bezel


Metal Bezel

Save


The contact block design reduces the depth behind the panel.


## Reliable

Retained Locking Lever


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

(1) Normal State


## Safety



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

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


Contact Ratings（Contact Block）

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

## 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 Code |
| Pilot Light （removable lamp terminal type） <br> Illuminated Pushbutton | Full Voltage | 6V AC／DC | 6V AC／DC | $\pm 10 \%$ | A：amber <br> G ：green <br> PW：pure white <br> R：red <br> S ：blue <br> W：white <br> $Y$ ：yellow | BA9S／13 | LSED－6ロN | 6V AC／DC | 8mA（A，R，Y） <br> $6 \mathrm{~mA}(\mathrm{G}, \mathrm{PW}, \mathrm{S})$ | A：amber <br> G：green <br> PW：pure white <br> R：red <br> S：blue <br> Y：yellow <br> Specify a color code in place of $\square$ in the Part No． |
|  |  | 12V AC／DC | 12V AC／DC |  |  |  | LSED－1ロN | 12V AC／DC | $\begin{aligned} & 7 \mathrm{~mA}(\mathrm{~A}, \mathrm{R}, \mathrm{Y}) \\ & 6 \mathrm{~mA}(\mathrm{G}, \mathrm{PW}, \mathrm{~S}) \end{aligned}$ |  |
|  |  | 24V AC／DC | 24V AC／DC |  |  |  | LSED－2ロN | 24V AC／DC | $\begin{aligned} & 4 \mathrm{~mA}(\mathrm{~A}, \mathrm{R}, \mathrm{Y}) \\ & 4 \mathrm{~mA}(\mathrm{G}, \mathrm{PW}, \mathrm{~S}) \end{aligned}$ |  |
|  |  | 110V AC／DC | 110V AC／DC |  |  |  | LSED－HロN | 110V AC／DC | 3 mA |  |
|  |  | 230／240V AC／DC | 207 to 250V AC／DC |  |  |  | LSED－M3口N | 230／240V AC／DC | 3 mA |  |
|  | Transformer <br> （pilot light <br> only） <br> $50 / 60 \mathrm{~Hz}$ | 100／110V AC | 100／110V AC | $\pm 10 \%$ |  |  | LSED－6ロN | 6V AC／DC | $\begin{aligned} & 8 \mathrm{~mA}(\mathrm{~A}, \mathrm{R}, \mathrm{Y}) \\ & 6 \mathrm{~mA}(\mathrm{G}, \mathrm{PW}, \mathrm{~S}) \end{aligned}$ |  |
|  |  | 200／220V AC | 200／220V AC |  |  |  |  |  |  |  |
|  |  | 115／120V AC | 115／120V AC |  |  |  |  |  |  |  |
|  |  | 230／240V AC | 207 to 250V AC |  |  |  |  |  |  |  |

Pilot Light（unibody type）

| Unit Type | Rated Voltage | Operating Voltage |  | Current Draw | Color Code |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Pilot Light （unibody type） | 6V AC／DC | 6V AC／DC | $\pm 10 \%$ | 16mA（A，R，W，Y） 13 mA （G，PW，S） | A：amber <br> G：green |
|  | 12V AC／DC | 12V AC／DC |  | 20 mA | PW：pure white |
|  | 24V AC／DC | 24V AC／DC |  | 20 mA | S．blue |
|  | 100／110V AC（ $50 / 60 \mathrm{~Hz}$ sine wave） | 100／110V AC |  | 20 mA | W：white |
|  | 230／240V AC（ $50 / 60 \mathrm{~Hz}$ sine wave） | 230／240V AC | 207 to 250V AC | 20 mA | 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 (removable lamp terminal type) <br> Illuminated Pushbutton | Full Voltage | 6V AC/DC | 6V AC/DC | $\pm 10 \%$ | 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) |
|  | Transformer (pilot light only) $50 / 60 \mathrm{~Hz}$ | 100/110V AC | 100/110V AC |  |  |  |  |  |
|  |  | 200/220V AC | 200/220V AC |  |  |  | IS-T6 | 1W (6.3V) |
|  |  | 115/120V AC | 115/120V AC |  |  |  | LS-16 | W(6.3V) |
|  |  | 230/240V AC | 207 to 250V AC |  |  |  |  |  |

## Specifications

| Operating Conditions | Operating temperature: -20 to $+55^{\circ} \mathrm{C}$ (no freezing) Operating humidity: 45 to $85 \%$ RH (no condensation) Storage temperature: -45 to $+80^{\circ} \mathrm{C}$ Storage humidity: 95\% RH maximum |
| :---: | :---: |
| Degree of Protection | From panel front: IP65 (IEC 60529) Terminal: IP20 (IEC 60529) |
| Insulation Resistance | $100 \mathrm{M} \Omega$ |
| Dielectric Strength | Contact block: 2,500V, 1 minute Pilot light: 2,000V, 1 minute |
| Vibration Resistance | <Emergency stop switch> Operating extremes / Damage limits: 10 to 500 Hz , amplitude 0.35 mm . acceleration $50 \mathrm{~m} / \mathrm{s}^{2}(5 \mathrm{G})$ <Pushbutton, pilot light, illluminated pushbutton, selector switch, and key selector switch> <br> Operating extremes: 5 to 55 Hz , amplitude 0.5 mm Damage limits: 30 Hz , amplitude 1.5 mm |
| Shock Resistance | <Emergency stop switch> <br> Operating extremes: $150 \mathrm{~m} / \mathrm{s}^{2}(10 \mathrm{G})$ <br> Damage limits: $1,000 \mathrm{~m} / \mathrm{s}^{2}(100 \mathrm{G})$ <br> <Pushbutton, pilot light, illluminated pushbutton, selector <br> switch, and key selector switch> <br> Operating extremes: $100 \mathrm{~m} / \mathrm{s}^{2}$ (10G) <br> Damage limits: $1,000 \mathrm{~m} / \mathrm{s}^{2}(100 \mathrm{G})$ |
| 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> 100,000 (single contact block) <Pushbutton, selector switch, and key selector switch> 100,000 (single contact block) 50,000 (double contact block) |

## Mounting Hole Layout



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

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

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

FA: Full voltage adapter

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


## Dimensions



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 |  |  |
| Flush | Momentary | 1N0 | N0 | - | - | YW1B-M1E10① | B: black <br> G: green <br> R: red <br> S: blue <br> W: white <br> $Y$ : yellow |
|  |  | 1NC | - | - | NC | YW1B-M1E01 ${ }^{1}$ |  |
|  |  | 2NO | N0 | - | NO | YW1B-M1E20(1) |  |
|  |  | 2NC | NC | - | NC | YW1B-M1E02(1) |  |
|  |  | 1NO-1NC | NO | - | NC | YW1B-M1E11 ${ }^{1}$ |  |
|  |  | 3N0 | NO | NO | NO | YW1B-M1E30(1) |  |
|  |  | 3NC | NC | NC | NC | YW1B-M1E03(1) |  |
|  |  | 2NO-1NC | NO | NC | NO | YW1B-M1E21 ${ }^{1}$ |  |
|  |  | 1NO-2NC | NO | NC | NC | YW1B-M1E12 ${ }^{\text {( }}$ |  |
|  | Maintained | 1NO | NO | - | - | YW1B-A1E10 ${ }^{(1)}$ |  |
|  |  | 1NC | - | - | NC | YW1B-A1E01 ${ }^{1}$ |  |
|  |  | 2N0 | NO | - | NO | YW1B-A1E20 ${ }^{\text {1 }}$ |  |
|  |  | 2NC | NC | - | NC | YW1B-A1E02 ${ }^{\text {( }}$ |  |
|  |  | 1NO-1NC | NO | - | NC | YW1B-A1E11 ${ }^{1}$ |  |
| Extended | Momentary | 1N0 | NO | - | - | YW1B-M2E10(1) | B: black <br> G: green <br> R: red <br> S : blue <br> W: white <br> $Y$ : yellow |
|  |  | 1NC | - | - | NC | YW1B-M2E01 ${ }^{1}$ |  |
|  |  | 2N0 | NO | - | NO | YW1B-M2E20(1) |  |
|  |  | 2NC | NC | - | NC | YW1B-M2E02(1) |  |
|  |  | 1NO-1NC | NO | - | NC | YW1B-M2E11 ${ }^{\text {( }}$ |  |
|  | Maintained | 1N0 | NO | - | - | YW1B-A2E10 ${ }^{\text {1 }}$ |  |
|  |  | 1NC | - | - | NC | YW1B-A2E01 ${ }^{1}$ |  |
|  |  | 2NO | NO | - | NO | YW1B-A2E20 ${ }^{\text {1 }}$ |  |
|  |  | 2NC | NC | - | NC | YW1B-A2E02 ${ }^{1}$ |  |
|  |  | 1NO-1NC | NO | - | NC | YW1B-A2E11 ${ }^{1}$ |  |
| Mushroom $\emptyset 40 \mathrm{~mm}$ | Momentary | 1N0 | NO | - | - | YW1B-M4E10(1) | B: black <br> G: green <br> R: red <br> S : blue <br> W: white <br> $Y$ : yellow |
|  |  | 1NC | - | - | NC | YW1B-M4E01 ${ }^{(1)}$ |  |
|  |  | 2N0 | NO | - | NO | YW1B-M4E20(1) |  |
|  |  | 2NC | NC | - | NC | YW1B-M4E02(1) |  |
|  |  | 1NO-1NC | NO | - | NC | YW1B-M4E11 ${ }^{1}$ |  |
|  | Maintained | 1N0 | NO | - | - | YW1B-A4E10① |  |
|  |  | 1NC | - | - | NC | YW1B-A4E01 ${ }^{1}$ |  |
|  |  | 2NO | NO | - | NO | YW1B-A4E20 ${ }^{\text {1 }}$ |  |
|  |  | 2NC | NC | - | NC | YW1B-A4E02 ${ }^{1}$ |  |
|  |  | 1NO-1NC | NO | - | NC | YW1B-A4E11 ${ }^{1}$ |  |




Extended



All dimensions in mm.


Note: Specify a button color code in place of $(1)$ in the Part No.
Dimensions

Pilot Lights


Extended


All dimensions in mm

Pilot Lights (Unibody)

## APEM

## Switches \& Pilot Liohts

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

## Dimensions




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)

| Shape | Lamp | Operating Voltage | Part No. | (2) Lens Color Code |
| :---: | :---: | :---: | :---: | :---: |
| Extended Full Voltage | Without Lamp | 250V AC/DC max. | YW1P-2TEQ0 ${ }^{2}$ | $\begin{aligned} & \text { A (amber), C (clear), } \\ & \text { G (green), R (red), S (blue), } \\ & \text { W (white), Y (yellow) } \end{aligned}$ |
|  | LED | 6V AC/DC | YW1P-2TEQ2 (2) | A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-(3)(2)N |
|  |  | 12V AC/DC | YW1P-2TEQ3 [2) |  |
|  |  | 24V AC/DC | YW1P-2TEQ4 ${ }^{2}$ |  |
|  |  | 110V AC/DC | YW1P-2TEQH(2) |  |
|  |  | 230/240V AC/DC | YW1P-2TEQM3 (2) |  |
|  | Incandescent | 6V AC/DC | YW1P-2TEQ5 ${ }^{2}$ ) | 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-2TEQ6 (2) |  |
|  |  | 24V AC/DC | YW1P-2TEQ7 ${ }^{(2)}$ |  |
| Extended <br> Transformer | 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-6(2)N |
|  |  | 200/220V AC | YW1P-2TEM2 ② |  |
|  |  | 115/120V AC | YW1P-2TEH22^2) |  |
|  |  | 230/240V AC | YW1P-2TEM42② |  |
|  | 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-2TEM5② |  |
|  |  | 115/120V AC | YW1P-2TEH25② |  |
|  |  | 230/240V AC | YW1P-2TEM45 (2) |  |
| Dome Full Voltage | Without Lamp | 250V AC/DC max. | YW1P-2EQ0 (2) | $\begin{aligned} & \text { A (amber), C (clear), } \\ & \text { G (green), R (red), S (blue), } \\ & \text { W (white), Y (yellow) } \end{aligned}$ |
|  | LED | 6V AC/DC | YW1P-2EQ2② | A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-(3)(2)N |
|  |  | 12V AC/DC | YW1P-2EQ3(2) |  |
|  |  | 24V AC/DC | YW1P-2EQ4 ${ }^{\text {2 }}$ |  |
|  |  | 110V AC/DC | YW1P-2EQH(2) |  |
|  |  | 230/240V AC/DC | YW1P-2EQM3 [2 |  |
|  | Incandescent | 6 V AC/DC | YW1P-2EQ5 (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-2EQ6 (2) |  |
|  |  | 24V AC/DC | YW1P-2EQ7② |  |
| Dome Transformer | 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-6(2)N |
|  |  | 200/220V AC | YW1P-2EM2 (2) |  |
|  |  | 115/120V AC | YW1P-2EH22 ② |  |
|  |  | 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 |  |

APEM

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.

## Dimensions

## Pilot Lights (with Removable Lamp Terminal)



Transformer


## Dome

Full Voltage


Transformer

A: amber
G: green
R: red
S: blue
W: white
Y: yellow
Built-in
incandescent lamp:
LS-T(3)

## Illuminated Pushbuttons with Plastic Bezel

| Shape | Lamp | Operation | Contact | Contact Block Mounting Position |  |  | Part No. | (3) Operating Voltage Code | (2) Lens Color Code |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 1 | 2 | 3 |  |  |  |
| Mushroom $\emptyset 40 \mathrm{~mm}$ | Without Lamp | Momentary | 1N0 | N0 | FA | - | YW1L-M4E10Q0 ${ }^{2}$ ) | 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 | - | FA | NC | YW1L-M4E01Q0 ${ }^{2}$ |  |  |
|  |  |  | 2N0 | NO | FA | N0 | YW1L-M4E20Q0 ${ }^{2}$ |  |  |
|  |  |  | 2NC | NC | FA | NC | YW1L-M4E02Q0² |  |  |
|  |  |  | 1NO-1NC | NO | FA | NC | YW1L-M4E11Q0 ${ }^{2}$ |  |  |
|  |  | Maintained | 1N0 | NO | FA | - | YW1L-A4E10Q0 ${ }^{2}$ |  |  |
|  |  |  | 1NC | - | FA | NC | YW1L-A4E01Q0 ${ }^{2}$ |  |  |
|  |  |  | 2N0 | NO | FA | NO | YW1L-A4E20Q0 ${ }^{2}$ |  |  |
|  |  |  | 2NC | NC | FA | NC | YW1L-A4E02Q0 ${ }^{2}$ |  |  |
|  |  |  | 1NO-1NC | NO | FA | NC | YW1L-A4E11Q0 ${ }^{\text {2 }}$ |  |  |
|  | LED | Momentary | 1N0 | NO | FA | - | YW1L-M4E10Q(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 <br> 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)2N |
|  |  |  | 1NC | - | FA | NC | YW1L-M4E01Q(3)2 |  |  |
|  |  |  | 2N0 | NO | FA | NO | YW1L-M4E20Q(3)(2) |  |  |
|  |  |  | 2NC | NC | FA | NC | YW1L-M4E02Q(3)2 |  |  |
|  |  |  | 1NO-1NC | NO | FA | NC | YW1L-M4E11Q(3)(2) |  |  |
|  |  | Maintained | 1N0 | NO | FA | - | YW1L-A4E10Q(3)(2) |  |  |
|  |  |  | 1NC | - | FA | NC | YW1L-A4E01Q(3)2 |  |  |
|  |  |  | 2NO | NO | FA | NO | YW1L-A4E20Q(3)2 |  |  |
|  |  |  | 2NC | NC | FA | NC | YW1L-A4E02Q(3)(2) |  |  |
|  |  |  | 1NO-1NC | NO | FA | NC | YW1L-A4E11Q(3)(2) |  |  |
|  | Incandescent | Momentary | 1N0 | NO | FA | - | YW1L-M4E10Q(3)2 | 5: 6V AC/DC 6:12V AC/DC 7:24V AC/DC | A: amber <br> G: green <br> R: red <br> S: blue <br> W: white <br> Y: yellow <br> Built-in <br> incandescent lamp: LS-T(3) |
|  |  |  | 1NC | - | FA | NC | YW1L-M4E01Q(3)2 |  |  |
|  |  |  | 2N0 | N0 | FA | N0 | YW1L-M4E20Q(3)2 |  |  |
|  |  |  | 2NC | NC | FA | NC | YW1L-M4E02Q(3)(2) |  |  |
|  |  |  | 1NO-1NC | NO | FA | NC | YW1L-M4E11Q(3)② |  |  |
|  |  | Maintained | 1N0 | NO | FA | - | YW1L-A4E10Q(3)(2) |  |  |
|  |  |  | 1NC | - | FA | NC | YW1L-A4E01Q(3)(2) |  |  |
|  |  |  | 2N0 | NO | FA | N0 | YW1L-A4E20Q(3)(2) |  |  |
|  |  |  | 2NC | NC | FA | NC | YW1L-A4E02Q(3)(2) |  |  |
|  |  |  | 1NO-1NC | NO | FA | NC | YW1L-A4E11Q(3)(2) |  |  |

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 Pushbuttons with Plastic Bezel)

Mushroom

Extended with Full Shroud

$12^{3}$

All dimensions in mm.

| A: | amber |
| :--- | :--- |
| G: | green |
| R: | red |
| S: | blue |
| W: white |  |
| Y: yellow |  |
| Built-in |  |
| incandescent lamp: |  |
| LS-T(3) |  |

FA: Full voltage adapter
A: amber
R: red
S : blue
Y: yellow Built-in incandescent lamp: LS-T(3)

A: amber
G: green
PW: pure white
R.
R: red
S : blue
W: white
$Y$ : yellow
Built-in LED lamp:
LSED-(3)2N Specify an operating voltage code in place of (3) in the Part No.

## Illuminated Pushbuttons with Metal Bezel

| Style | Lamp | Operation | Contact | Contact Block Mounting Position |  |  | Part No. | (3) Operating Voltage Code | (2) Lens Color Code |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 1 | 2 | 3 |  |  |  |
| ø40mm Mushroom | Without Lamp | Momentary | 1N0 | N0 | FA | - | YW4L-M4E10Q0 ${ }^{2}$ | 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 | - | FA | NC | YW4L-M4E01Q0² |  |  |
|  |  |  | 2NO | NO | FA | NO | YW4L-M4E20Q0² |  |  |
|  |  |  | 2NC | NC | FA | NC | YW4L-M4E02Q0² |  |  |
|  |  |  | 1NO-1NC | N0 | FA | NC | YW4L-M4E11Q0² |  |  |
|  |  | Maintained | 1N0 | NO | FA | - | YW4L-A4E10Q0 ${ }^{\text {2 }}$ |  |  |
|  |  |  | 1NC | - | FA | NC | YW4L-A4E01Q0(2) |  |  |
|  |  |  | 2NO | NO | FA | N0 | YW4L-A4E20Q0 ${ }^{2}$ |  |  |
|  |  |  | 2NC | NC | FA | NC | YW4L-A4E02Q0 ${ }^{2}$ |  |  |
|  |  |  | 1NO-1NC | NO | FA | NC | YW4L-A4E11Q0 ${ }^{\text {2 }}$ |  |  |
|  | LED | Momentary | 1NO | NO | FA | - | YW4L-M4E10Q(3)(2) | 2: 6V AC/DC <br> 3: 12 V AC/DC <br> 4: 24 V 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)N |
|  |  |  | 1NC | - | FA | NC | YW4L-M4E01Q(3)(2) |  |  |
|  |  |  | 2NO | NO | FA | NO | YW4L-M4E20Q(3)(2) |  |  |
|  |  |  | 2NC | NC | FA | NC | YW4L-M4E02Q(3)2 |  |  |
|  |  |  | 1NO-1NC | N0 | FA | NC | YW4L-M4E11Q3(2) |  |  |
|  |  | Maintained | 1NO | NO | FA | - | YW4L-A4E10Q(3)2 |  |  |
|  |  |  | 1NC | - | FA | NC | YW4L-A4E01Q(3)2 |  |  |
|  |  |  | 2NO | NO | FA | N0 | YW4L-A4E20Q(3)2 |  |  |
|  |  |  | 2NC | NC | FA | NC | YW4L-A4E02Q(3)2 |  |  |
|  |  |  | 1NO-1NC | NO | FA | NC | YW4L-A4E11Q3(2) |  |  |
|  | Incandescent | Momentary | 1N0 | N0 | FA | - | YW4L-M4E10Q(3) ${ }^{\text {(2) }}$ | 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: LS-T(3) |
|  |  |  | 1NC | - | FA | NC | YW4L-M4E01Q(3)(2) |  |  |
|  |  |  | 2N0 | N0 | FA | NO | YW4L-M4E20Q(3)2 |  |  |
|  |  |  | 2NC | NC | FA | NC | YW4L-M4E02Q(3)2 |  |  |
|  |  |  | 1NO-1NC | NO | FA | NC | YW4L-M4E11Q3(2) |  |  |
|  |  | Maintained | 1N0 | NO | FA | - | YW4L-A4E10Q(3)2 |  |  |
|  |  |  | 1NC | - | FA | NC | YW4L-A4E01Q(3)2 |  |  |
|  |  |  | 2N0 | NO | FA | NO | YW4L-A4E20Q(3)2 |  |  |
|  |  |  | 2NC | NC | FA | NC | YW4L-A4E02Q(3)2 |  |  |
|  |  |  | 1NO-1NC | NO | FA | NC | YW4L-A4E11Q(3)2 |  |  |

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)





Selector Switch with Plastic Bezel


## Contact Block Mounting Position

Selector Switch with Plastic Bezel

## Contact Block Mounting Position



## Selector Switch with Metal Bezel



## Operator

 Interfaces

- 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.

| No. of Positions | Contact Configuration | Contact Block Mounting Position |  | Operator Position |  |  | Part No. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Plastic Bezel | Metal Bezel |
|  |  |  |  | L | C | R |  |  |
| $45^{\circ} 3$-position Maintained | $\begin{aligned} & \text { 2NO } \\ & \text { (20) } \end{aligned}$ | 1 | N0 |  |  |  | $\bullet$ |  |  | YW1K-3AE20 | YW4K-3AE20 |
|  |  | 2 |  |  |  |  |  |  |
|  |  | 3 | N0 |  |  | $\bullet$ |  |  |
|  | $\begin{gathered} \text { 2NO } \\ (20 \mathrm{~N} 1) \end{gathered}$ | 1 |  |  |  |  | YW1K-3AE20N1 | YW4K-3AE20N1 |  |  |
|  |  | 2 | N0 | $\bullet$ |  | $\bullet$ |  |  |  |  |
|  |  | 3 | N0 |  |  | $\bullet$ |  |  |  |  |
|  | $\begin{aligned} & \text { 2NC } \\ & \text { (02) } \end{aligned}$ | 1 | NC |  |  | - | YW1K-3AE02 | YW4K-3AE02 |  |  |
|  |  | 2 |  |  |  |  |  |  |  |  |
|  |  | 3 | NC |  | - |  |  |  |  |  |
|  | $\begin{gathered} \text { 2NC } \\ (02 \mathrm{~N} 1) \end{gathered}$ | 1 |  |  |  |  | YW1K-3AE02N1 | YW4K-3AE02N1 |  |  |
|  |  | 2 | NC |  | - |  |  |  |  |  |
|  |  | 3 | NC |  |  |  |  |  |  |  |
|  | $\underset{(11)}{\text { 1NO-1NC }}$ | 1 | N0 | $\bullet$ |  |  | YW1K-3AE11 | YW4K-3AE11 |  |  |
|  |  | 2 |  |  |  |  |  |  |  |  |
|  |  | 3 | NC |  |  |  |  |  |  |  |
|  | $\underset{\substack{\text { 1NO-1NC } \\(11 \mathrm{~N} 1)}}{ }$ | 1 | NC |  |  | - | YW1K-3AE11N1 | YW4K-3AE11N1 |  |  |
|  |  | 2 |  |  |  |  |  |  |  |  |
|  |  | 3 | N0 |  |  | $\bullet$ |  |  |  |  |
|  | $\begin{gathered} \text { 1NO-1NC } \\ (11 \mathrm{~N} 2) \end{gathered}$ | 1 | NO | $\bullet$ |  |  | YW1K-3AE11N2 | YW4K-3AE11N2 |  |  |
|  |  | 2 | NC |  | $\bullet$ |  |  |  |  |  |
|  |  | 3 |  |  |  |  |  |  |  |  |
|  | $\underset{(11 N 3)}{\substack{\text { 1NO-1NC }}}$ | 1 |  |  |  |  | YW1K-3AE11N3 | YW4K-3AE11N3 |  |  |
|  |  | 2 | NC |  | $\bullet$ |  |  |  |  |  |
|  |  | 3 | NO |  |  | $\bullet$ |  |  |  |  |
|  | $\begin{gathered} \text { 1NO-1NC } \\ \text { (11N4) } \end{gathered}$ | 1 |  |  |  |  | YW1K-3AE11N4 | YW4K-3AE11N4 |  |  |
|  |  | 2 | NO | $\bullet$ |  | $\bullet$ |  |  |  |  |
|  |  | 3 | NC |  |  |  |  |  |  |  |
|  | $\begin{aligned} & 3 \mathrm{NO} \\ & (30) \end{aligned}$ | 1 | NO | $\bullet$ |  |  | YW1K-3AE30 | YW4K-3AE30 |  |  |
|  |  | 2 | NO | $\bullet$ |  | $\bullet$ |  |  |  |  |
|  |  | 3 | NO |  |  | $\bullet$ |  |  |  |  |
|  | $\begin{aligned} & \text { 3NC } \\ & \text { (03) } \end{aligned}$ | 1 | NC |  |  |  | YW1K-3AE03 | YW4K-3AE03 |  |  |
|  |  | 2 | NC |  | $\bullet$ |  |  |  |  |  |
|  |  | , | NC |  |  |  |  |  |  |  |
|  | $\underset{(21)}{\text { 2NO-1NC }}$ | 1 | NO | $\bullet$ |  |  | YW1K-3AE21 | YW4K-3AE21 |  |  |
|  |  | 2 | NC |  | $\bullet$ |  |  |  |  |  |
|  |  | , | NO |  |  | $\bullet$ |  |  |  |  |
|  | $\underset{(12)}{\text { 1NO-2NC }}$ | 1 | NC |  |  | - | YW1K-3AE12 | YW4K-3AE12 |  |  |
|  |  | 2 | NO | $\bullet$ |  | $\bullet$ |  |  |  |  |
|  |  | 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



## Key Selector Switches (45³-Position)

[^0]Key retained positions are also available. See Part No. Development shown on B-288.

- Each key selector switch is supplied with two identical keys.




## Contact Block Mounting Position

## Contact Block Mounting Position



[^1]ø22 YW Series Switches \& Pilot Lights

## Accessories

| Name \& Shape | Part 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 in 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. Weight: Approx. 18g | 1 |
| Anti-Rotation Ring | HW9Z-RLPN10 | Prevents rotation of switches in panel. 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 |
| Padlock Cover | HW9Z-KL1 | Plastic hinged cover to protect pushbuttons, illuminated pushbuttons, or selector switches. Degree of protection: IP65. Applicable panel thickness: 0.8 to 3.2 mm | 1 |

Maintenance Parts



## Nameplates

HWAM, HWAQ, HWAS, and HWAV

\begin{tabular}{|c|c|c|c|c|c|c|}
\hline Name \& Legend \& Material \& Part No. \& Ordering No. \& Package Quantity \& Dimensions (mm) <br>
\hline HWAM \& Order marking plate separately. \& Plastic (black) 1.5 mm thick \& HWAM \& HWAM
HWAMPN10 \& 1
10 \&  <br>
\hline HWAQ \& Order marking plate separately. \& Plastic (black) 1.5 mm thick \& HWAQ \& HWAQ
HWAQPN10 \& 1
10 \&  <br>
\hline HWAQ \& Blank \& Plastic (black) 1.5 mm thick \& HWAS-0 \& HWAS-0

HWAS-0PN10 \& 1
10 \&  <br>
\hline HWAV \& Blank
EMERGENCY STOP \& Plastic (yellow) 1.5 mm thick \& HWAV-0

HWAV-27 \& HWAV-0

HWAV-27 \& 1

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

Making Plate

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


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

Switch Guards
Part No. \& Shape (mm)
EMO Switch Guard
SEMI S2 compliant (Note 1)
SEMATECH compliant (Note 3)
SEMI S2 compliant (Note 1)
EMO Switch Guard
HEMI S2 compliant (Note 1)
ISO 13850 compliant

## Transformer

## Din Rail Mount Transformer For 6V



| Primary Voltage ( $50 / 60 \mathrm{~Hz}$ ) | Part No. | Applicable Lamp Rating |
| :---: | :---: | :---: |
| 110 V AC | TWR516 | One full voltage type illuminated unit containing LED lamp LSED-6N (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 |  |
| 240 V AC | TWR5246 |  |
| 380 V AC | TWR5386 |  |
| 440 V AC | TWR546 |  |
| 480 V AC | TWR5486 |  |

## Dimensions (mm)



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

Accessories
When ordering, specify the Ordering No.

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

[^2]
## © 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 $1.0 \mathrm{~N} \cdot \mathrm{~m}$. Failure to tighten the terminal screws may cause overheating and fire.

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 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.


## 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

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. 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

 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


## Instructions

## 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

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 $1.0 \mathrm{~N} \cdot \mathrm{~m}$.

## Anti-rotation Ring and Mounting Panel

Turn the TOP marking on the operator and the $\mathbf{\Delta}$ mark on the 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.


## Wiring

Applicable Wires
Stranded wire: $\quad 2.0 \mathrm{~mm}^{2}$ maximum (14AWG)
Solid wire: $\quad \emptyset 1.6 \mathrm{~mm}$ maximum (16AWG)
One or two wires can be connected to the terminal.

## Applicable Crimping Terminals

## [Spade terminal]

When using crimping terminals, be sure to use insulating tubes or use insulated crimping terminals.
Note: Ring terminals cannot be used.

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



When using spade terminals or ferrules, insert them to the bottom.
[Solid Wire]
When connecting two wires directly, use wires of the same size.


## 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 ).

## 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 X 2 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 $6 \mathrm{~V}, 12 \mathrm{~V}, 24 \mathrm{~V}, 110 \mathrm{~V}$, or $230 / 240 \mathrm{~V}$ $A C / D C$, 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.


APEM


Switches \&

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
$\emptyset 16$
422
$\emptyset 30$

Miniature
Pilot Lights
[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.

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ii. The failure was caused by reasons other than an IDEC product
iii. Modification or repair was performed by a party other than IDEC
iv. The failure was caused by a software program of a party other than IDEC
v. The product was used outside of its original purpose
vi. Replacement of maintenance parts, installation of accessories, or the like was not performed properly in accordance with the user's manual and Catalogs
vii. The failure could not have been predicted with the scientific and technical standards at the time when the product was shipped from IDEC
viii. The failure was due to other causes not attributable to IDEC (including cases of force majeure such as natural disasters and other disasters)
Furthermore, the warranty described here refers to a warranty on the IDEC product as a unit, and damages induced by the failure of an IDEC product are excluded from this warranty.

## 5. Limitation of liability

The warranty listed in this Agreement is the full and complete warranty for IDEC products, and IDEC shall bear no liability whatsoever regarding special damages, indirect damages, incidental damages, or passive damages that occurred due to an IDEC product.

## 6. Service scope

The prices of IDEC products do not include the cost of services, such as dispatching technicians. Therefore, separate fees are required in the following cases.
(1) Instructions for installation / adjustment and accompaniment at test operation (including creating application software and testing operation, etc.)
(2) Maintenance inspections, adjustments, and repairs
(3) Technical instructions and technical training
(4) Product tests or inspections specified by you

The above content assumes transactions and usage within your region. Please consult with an IDEC sales representative regarding transactions and usage outside of your region. Also, IDEC provides no guarantees whatsoever regarding IDEC products sold outside your region.

| USA EMEA | IDEC Corporation APEM SAS | Singapore | IDEC Izumi Asia Pte. Ltd. | China | IDEC (Shanghai) Corporation | Japan | IDEC Corporation |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Thailand | IDEC Asia (Thailand) Co., Ltd. |  | IDEC Izumi (H.K.) Co., Ltd. |  |  |
|  |  | India | IDEC Controls India Private Ltd. | Taiwan | IDEC Taiwan Corporation |  |  |


[^0]:    - On the spring-returned types, the key can be removed only from the maintained position.

[^1]:    $\underbrace{L}$
    Operator Position

[^2]:    - See H-071 for DIN rail products.

