











LW Series Switches & Pilot Lights













IDEC CORPORATION

ø22 LW Series Selection Guide

| Function | Pushbutton | | | | |
|----------|---|---|---|---|---|
| Category | Round Flush | Square Flush | Round Flush with Square Bezel | Round Extended | Square Extended |
| | Momentary/Maintained | | | | |
| Shape |  RU SF Δ CE |  RU SF Δ CE |  RU SF Δ CE |  RU SF Δ CE |  RU SF Δ CE |
| Model | LW1B-*1 | LW2B-*1 | LW3B-*1 | LW1B-*2 | LW2B-*2 |
| Page | 5 | 6 | 7 | 8 | 9 |

| Function | Pushbutton | | Pilot Light (Unibody/Removable Contact Block) | | |
|----------|---|---|---|---|---|
| Category | Round Extended with Square Bezel | ø30mm Mushroom | Round Flush | Square Flush | Round Flush with Square Bezel |
| | Momentary/Maintained | | | | |
| Shape |  RU SF Δ CE |  RU SF Δ CE |  RU SF Δ CE |  RU SF Δ CE |  RU SF Δ CE |
| Model | LW3B-*2 | LW1B-*3 | LW1P | LW2P | LW3P |
| Page | 9 | 10 | 12 | 12 | 12 |

| Function | Illuminated Pushbutton | | | | Selector Switch |
|----------|---|---|---|---|---|
| Category | Round | Square Flush | Round Flush with Square Bezel | ø30mm Mushroom | Round |
| | Momentary/Maintained | | | | |
| Shape |  RU SF Δ CE |  RU SF Δ CE |  RU SF Δ CE |  RU SF Δ CE |  RU SF Δ CE |
| Model | LW1L-*1/ LW1L-*2 | LW2L-*1 | LW3L-*1 | LW1L-*3 | LW1S |
| Page | 14 | 14 | 15 | 15 | 17 |






| Function | Selector Switch | Key Selector Switch | | Illuminated Selector Switch | |
|----------|---|---|---|---|---|
| Category | Round with Square Bezel | Round | Round with Square Bezel | Round | Round with Square Bezel |
| Shape |  RU SF Δ CE |  RU SF Δ CE |  RU SF Δ CE |  RU SF Δ CE |  RU SF Δ CE |
| Model | LW3S | LW1K | LW3K | LW1F | LW3F |
| Page | 17 | 18, 19 | 18, 20 | 22 | 22 |

| Function | Buzzer |
|----------|---|
| Category | Round/Square Continuous/Intermittent |
| Shape |  |
| Model | LW1Z/LW2Z |
| Page | 23 |

ø22 LW Series Switches & Pilot Lights

Light touch mechanism designed to reduce strain injuries
Endures repetitive operation suitable for food processing and packaging industries

- Light touch
- Collective mounting is possible.
- Locking lever removable contact blocks enables easy installation even when mounted collectively.
- Gold or silver contacts.
- Degree of protection: IP65 (IEC 60529)
(Buzzer: IP40)
- UL recognized and CSA certified. EN compliant.
(except buzzers)

| Applicable Standards | Mark | File No. or Organization |
|----------------------|---|-----------------------------------|
| UL 508 |  | UL Recognition File No. E55996 |
| CSA C22.2 No.14 |  | CSA File No.LR21451 |
| EN60947-5-1 |  | TÜV Rheinland |
| |  | EU Low Voltage Directive |
| GB14048.5 |  | |



Specifications and Ratings

Contact Ratings

Gold Contact

| | | |
|------------------------------------|------------------|--------|
| Rated Insulation Voltage | 250V | |
| Thermal Current | 3A | |
| Operating Voltage | 125V AC | 30V DC |
| Operating Current (resistive load) | 0.1A | 0.1A |
| Contact Material | Gold-clad silver | |

Minimum applicable load (reference value): 5V AC/DC, 1mA
 (Applicable range is subject to the operating condition and load.)

Silver Contact (switch base: gray)

| | | | | | | |
|--------------------------|------------------|------------|----------------|------|------|------|
| Rated Insulation Voltage | | 250V | | | | |
| Rated Operating Voltage | | 30V | 125V | 250V | | |
| Rated Operating Current | Specification 1* | AC 50/60Hz | Resistive load | — | 5A | 5A |
| | | DC | Inductive load | — | 3A | 1.5A |
| | | | Resistive load | 5A | 1.1A | — |
| | Specification 2* | AC 50/60Hz | Resistive load | — | 5A | 3A |
| | | DC | Inductive load | — | 3A | 1.5A |
| | | | Resistive load | 3A | 0.6A | — |
| Rated Thermal Current | | 5A | | | | |
| Contact Material | | Silver | | | | |

• AC inductive load: PF=0.6 to 0.7 DC inductive load: L/R=7 ms max.

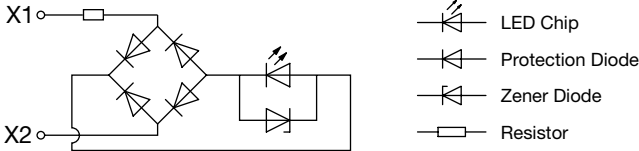




*See Specifications for electrical life.

Specifications

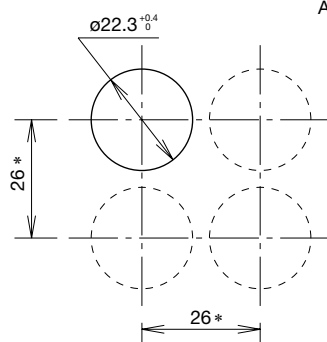
| | | |
|--------------------------------------|---|--|
| Operating Temperature | -25 to +60°C (no freezing) Illuminated units: -25 to +50°C | |
| Storage Temperature | -40 to +80°C (no freezing) | |
| Operating Humidity | 45 to 85% RH (no condensation) | |
| Contact Resistance | 50 mΩ maximum (initial value) | |
| Insulation Resistance | 100 MΩ minimum (500V DC megger) | |
| Dielectric Strength | Switch Unit | Between live part and ground: 2,500V AC, 1 minute Between terminals of different poles: 2,500V AC, 1 minute Between terminals of the same pole: 1,000V AC, 1 minute |
| | Illumination Unit | Between live part and ground: 2,500V AC, 1 minute |
| Vibration Resistance | Damage Limits, Operating extremes: 5 to 55 Hz, amplitude 0.5 mm | |
| Shock Resistance | Damage limits: 1,000 m/s ² Operating extremes: 100 m/s ² | |
| Mechanical Life (minimum operations) | Momentary: 1,000,000 Maintained: 500,000 Selector switches: 250,000 Key selector switches: 250,000 Illuminated selector switches: 250,000 | |
| Electrical Life (minimum operations) | 50,000 operations minimum (Rated Operating Current: Specification 1) 100,000 operations minimum (Rated Operating Current: Specification 2) *50,000 operations minimum when using silver contacts at 125V/5A resistance load (UL rating) | |
| Degree of Protection | IP65 (IEC 60529) (Buzzer: IP40) | |
| Terminal Style | Solder/tab terminal no. 110 PC board terminal Screw terminal | |
| Weight (approx.) | 10g (LW1B-M1C3) 15g (LW1P-14) 24g (LW1L-M1C34) 24g (LW1S-2C3) 39g (LW1K-2C3A) 27g (LW1F-2C34) | |

ø22 LW Series Switches & Pilot Lights

LED Lamp Ratings (LSTD)

| Part No. | LSTD-6② | | LSTD-1② | LSTD-2② |
|------------------------|---|-----------------------------------|----------------|----------------|
| Lamp Base | BA9S/13 | | | |
| Rated Voltage | 6V AC/DC | | 12V AC/DC | 24V AC/DC |
| Voltage Range | 6V AC/DC ±10% | | 12V AC/DC ±10% | 24V AC/DC ±10% |
| Current Draw | AC | 8 mA | 11 mA | 11 mA |
| | DC | A, R, W: 7 mA G, PW, S: 5.5 mA | 10 mA | 10 mA |
| Color Code ② | A (amber), G (green), PW (pure white), R (red), S (blue), W (white) | | | |
| Lamp Base Color | Same as illumination color | | | |
| Voltage Marking | Die stamped on the base | | | |
| Life (reference value) | Approx. 50,000 hours (The luminance is reduced to 50% the initial intensity when used on complete DC.) | | | |
| Internal Circuit |  <p>  LED Chip  Protection Diode  Zener Diode  Resistor </p> | | | |

Mounting Hole Layout



All dimensions in mm.

Ordering Information

Standard Units

- Specify a button or lens color code in the Part No.
- All illuminated units are supplied with an LED lamp.
- All standard units are UL recognized, CSA certified, and EN compliant (TÜV Rheinland).

Note: Determine the mounting centers to ensure easy operation.

- ø30mm Mushroom: Vertical: 32 mm minimum
Horizontal: 32 mm minimum
- Solder/Tab Terminal
Without terminal cover: Vertical: 26 mm minimum
Horizontal: 26 mm minimum
With terminal cover: Vertical: 26 mm minimum
Horizontal: 27 mm minimum
- Screw terminal: Vertical: 40 mm minimum
Horizontal: 26 mm minimum
- PC board terminal: Vertical: 26 mm minimum
Horizontal: 26 mm minimum



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Round Flush Pushbuttons

Package Quantity: 1

| Shape | Button Style | Operation | Contact Material | Contact | Part No. | | |
|---|--------------|------------|------------------|---------|---------------------|-------------------|----------------|
| | | | | | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| Round Flush LW1B-M1 LW1B-A1   | Button | Momentary | Gold | SPDT | LW1B-M1C1① | LW1B-M1C1V① | — |
| | | | | DPDT | LW1B-M1C2① | LW1B-M1C2V① | LW1B-M1C2M① |
| | | | | 3PDT | LW1B-M1C3① | LW1B-M1C3V① | — |
| | | | Silver | SPDT | LW1B-M1C5① | — | — |
| | | | | DPDT | LW1B-M1C6① | — | LW1B-M1C6M① |
| | | | | 3PDT | LW1B-M1C7① | — | — |
| | | Maintained | Gold | SPDT | LW1B-A1C1① | LW1B-A1C1V① | — |
| | | | | DPDT | LW1B-A1C2① | LW1B-A1C2V① | LW1B-A1C2M① |
| | | | | 3PDT | LW1B-A1C3① | LW1B-A1C3V① | — |
| | | | Silver | SPDT | LW1B-A1C5① | — | — |
| | | | | DPDT | LW1B-A1C6① | — | LW1B-A1C6M① |
| | | | | 3PDT | LW1B-A1C7① | — | — |
| | Lens | Momentary | Gold | SPDT | LW1B-M1C1L② | LW1B-M1C1VL② | — |
| | | | | DPDT | LW1B-M1C2L② | LW1B-M1C2VL② | LW1B-M1C2ML② |
| | | | | 3PDT | LW1B-M1C3L② | LW1B-M1C3VL② | — |
| | | | Silver | SPDT | LW1B-M1C5L② | — | — |
| | | | | DPDT | LW1B-M1C6L② | — | LW1B-M1C6ML② |
| | | | | 3PDT | LW1B-M1C7L② | — | — |
| | | Maintained | Gold | SPDT | LW1B-A1C1L② | LW1B-A1C1VL② | — |
| | | | | DPDT | LW1B-A1C2L② | LW1B-A1C2VL② | LW1B-A1C2ML② |
| | | | | 3PDT | LW1B-A1C3L② | LW1B-A1C3VL② | — |
| | | | Silver | SPDT | LW1B-A1C5L② | — | — |
| | | | | DPDT | LW1B-A1C6L② | — | LW1B-A1C6ML② |
| | | | | 3PDT | LW1B-A1C7L② | — | — |

- Specify button color code in place of ①. B: black, G: green, R: red, S: blue, W: white, Y: yellow
- Specify lens color code in place of ②. A: amber, B: black, G: green, R: red, S: blue, W: white, Y: yellow
- Lens style buttons can be used with legend markings. For details on marking plate and film, see page 27.



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ø22 LW Series Pushbuttons

Square Flush Pushbuttons



Package Quantity: 1

| Shape | Button Style | Operation | Contact Material | Contact | Part No. | | |
|--|--------------|------------|------------------|---------|---------------------|-------------------|----------------|
| | | | | | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| Square Flush LW2B-M1 LW2B-A1   | Button | Momentary | Gold | SPDT | LW2B-M1C1① | LW2B-M1C1V① | — |
| | | | | DPDT | LW2B-M1C2① | LW2B-M1C2V① | LW2B-M1C2M① |
| | | | | 3PDT | LW2B-M1C3① | LW2B-M1C3V① | — |
| | | | Silver | SPDT | LW2B-M1C5① | — | — |
| | | | | DPDT | LW2B-M1C6① | — | LW2B-M1C6M① |
| | | | | 3PDT | LW2B-M1C7① | — | — |
| | | Maintained | Gold | SPDT | LW2B-A1C1① | LW2B-A1C1V① | — |
| | | | | DPDT | LW2B-A1C2① | LW2B-A1C2V① | LW2B-A1C2M① |
| | | | | 3PDT | LW2B-A1C3① | LW2B-A1C3V① | — |
| | | | Silver | SPDT | LW2B-A1C5① | — | — |
| | | | | DPDT | LW2B-A1C6① | — | LW2B-A1C6M① |
| | | | | 3PDT | LW2B-A1C7① | — | — |
| | Lens | Momentary | Gold | SPDT | LW2B-M1C1L② | LW2B-M1C1VL② | — |
| | | | | DPDT | LW2B-M1C2L② | LW2B-M1C2VL② | LW2B-M1C2ML② |
| | | | | 3PDT | LW2B-M1C3L② | LW2B-M1C3VL② | — |
| | | | Silver | SPDT | LW2B-M1C5L② | — | — |
| | | | | DPDT | LW2B-M1C6L② | — | LW2B-M1C6ML② |
| | | | | 3PDT | LW2B-M1C7L② | — | — |
| | | Maintained | Gold | SPDT | LW2B-A1C1L② | LW2B-A1C1VL② | — |
| | | | | DPDT | LW2B-A1C2L② | LW2B-A1C2VL② | LW2B-A1C2ML② |
| | | | | 3PDT | LW2B-A1C3L② | LW2B-A1C3VL② | — |
| | | | Silver | SPDT | LW2B-A1C5L② | — | — |
| | | | | DPDT | LW2B-A1C6L② | — | LW2B-A1C6ML② |
| | | | | 3PDT | LW2B-A1C7L② | — | — |

- Specify button color code in place of ①. B: black, G: green, R: red, S: blue, W: white, Y: yellow
- Specify lens color code in place of ②. A: amber, B: black, G: green, R: red, S: blue, W: white, Y: yellow
- Lens style buttons can be used with legend markings. For details on marking plate and film, see page 27.

Round Flush with Square Bezel Pushbuttons

Package Quantity: 1



| Shape | Button Style | Operation | Contact Material | Contact | Part No. | | |
|---|--------------|------------|------------------|---------|---------------------|-------------------|----------------|
| | | | | | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| Round Flush with Square Bezel LW3B-M1 LW3B-A1   | Button | Momentary | Gold | SPDT | LW3B-M1C1① | LW3B-M1C1V① | — |
| | | | | DPDT | LW3B-M1C2① | LW3B-M1C2V① | LW3B-M1C2M① |
| | | | | 3PDT | LW3B-M1C3① | LW3B-M1C3V① | — |
| | | | Silver | SPDT | LW3B-M1C5① | — | — |
| | | | | DPDT | LW3B-M1C6① | — | LW3B-M1C6M① |
| | | | | 3PDT | LW3B-M1C7① | — | — |
| | | Maintained | Gold | SPDT | LW3B-A1C1① | LW3B-A1C1V① | — |
| | | | | DPDT | LW3B-A1C2① | LW3B-A1C2V① | LW3B-A1C2M① |
| | | | | 3PDT | LW3B-A1C3① | LW3B-A1C3V① | — |
| | | | Silver | SPDT | LW3B-A1C5① | — | — |
| | | | | DPDT | LW3B-A1C6① | — | LW3B-A1C6M① |
| | | | | 3PDT | LW3B-A1C7① | — | — |
| | Lens | Momentary | Gold | SPDT | LW3B-M1C1L② | LW3B-M1C1VL② | — |
| | | | | DPDT | LW3B-M1C2L② | LW3B-M1C2VL② | LW3B-M1C2ML② |
| | | | | 3PDT | LW3B-M1C3L② | LW3B-M1C3VL② | — |
| | | | Silver | SPDT | LW3B-M1C5L② | — | — |
| | | | | DPDT | LW3B-M1C6L② | — | LW3B-M1C6ML② |
| | | | | 3PDT | LW3B-M1C7L② | — | — |
| | | Maintained | Gold | SPDT | LW3B-A1C1L② | LW3B-A1C1VL② | — |
| | | | | DPDT | LW3B-A1C2L② | LW3B-A1C2VL② | LW3B-A1C2ML② |
| | | | | 3PDT | LW3B-A1C3L② | LW3B-A1C3VL② | — |
| | | | Silver | SPDT | LW3B-A1C5L② | — | — |
| | | | | DPDT | LW3B-A1C6L② | — | LW3B-A1C6ML② |
| | | | | 3PDT | LW3B-A1C7L② | — | — |

- Specify button color code in place of ①. B: black, G: green, R: red, S: blue, W: white, Y: yellow
- Specify lens color code in place of ②. A: amber, B: black, G: green, R: red, S: blue, W: white, Y: yellow
- Lens style buttons can be used with legend markings. For details on marking plate and film, see page 27.

ø22 LW Series Pushbuttons

Round Extended Pushbuttons

Package Quantity: 1

| Shape | Button Style | Operation | Contact Material | Contact | Part No. | | |
|--|--------------|------------|------------------|---------|---------------------|-------------------|----------------|
| | | | | | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| Round Extended LW1B-M2 LW1B-A2   | Button | Momentary | Gold | SPDT | LW1B-M2C1① | LW1B-M2C1V① | — |
| | | | | DPDT | LW1B-M2C2① | LW1B-M2C2V① | LW1B-M2C2M① |
| | | | | 3PDT | LW1B-M2C3① | LW1B-M2C3V① | — |
| | | | Silver | SPDT | LW1B-M2C5① | — | — |
| | | | | DPDT | LW1B-M2C6① | — | LW1B-M2C6M① |
| | | | | 3PDT | LW1B-M2C7① | — | — |
| | | Maintained | Gold | SPDT | LW1B-A2C1① | LW1B-A2C1V① | — |
| | | | | DPDT | LW1B-A2C2① | LW1B-A2C2V① | LW1B-A2C2M① |
| | | | | 3PDT | LW1B-A2C3① | LW1B-A2C3V① | — |
| | | | Silver | SPDT | LW1B-A2C5① | — | — |
| | | | | DPDT | LW1B-A2C6① | — | LW1B-A2C6M① |
| | | | | 3PDT | LW1B-A2C7① | — | — |
| | Lens | Momentary | Gold | SPDT | LW1B-M2C1L② | LW1B-M2C1VL② | — |
| | | | | DPDT | LW1B-M2C2L② | LW1B-M2C2VL② | LW1B-M2C2ML② |
| | | | | 3PDT | LW1B-M2C3L② | LW1B-M2C3VL② | — |
| | | | Silver | SPDT | LW1B-M2C5L② | — | — |
| | | | | DPDT | LW1B-M2C6L② | — | LW1B-M2C6ML② |
| | | | | 3PDT | LW1B-M2C7L② | — | — |
| | | Maintained | Gold | SPDT | LW1B-A2C1L② | LW1B-A2C1VL② | — |
| | | | | DPDT | LW1B-A2C2L② | LW1B-A2C2VL② | LW1B-A2C2ML② |
| | | | | 3PDT | LW1B-A2C3L② | LW1B-A2C3VL② | — |
| | | | Silver | SPDT | LW1B-A2C5L② | — | — |
| | | | | DPDT | LW1B-A2C6L② | — | LW1B-A2C6ML② |
| | | | | 3PDT | LW1B-A2C7L② | — | — |

- Specify button color code in place of ①. B: black, G: green, R: red, S: blue, W: white, Y: yellow
- Specify lens color code in place of ②. A: amber, B: black, G: green, R: red, S: blue, W: white, Y: yellow
- Lens style buttons can be used with legend markings. For details on marking plate and film, see page 27.



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Square Extended / Round Extended with Square Bezel Pushbuttons

Package Quantity: 1


| Shape | Button Style | Operation | Contact Material | Contact | Part No. | | | | |
|---|--------------|--|------------------|-----------|---------------------|-------------------|----------------|-------------|-------------|
| | | | | | Solder/Tab Terminal | PC Board Terminal | Screw Terminal | | |
| Square Extended LW2B-M2 LW2B-A2   | Button | Momentary | Gold | SPDT | LW2B-M2C1① | LW2B-M2C1V① | — | | |
| | | | | DPDT | LW2B-M2C2① | LW2B-M2C2V① | LW2B-M2C2M① | | |
| | | | | 3PDT | LW2B-M2C3① | LW2B-M2C3V① | — | | |
| | | | Silver | SPDT | LW2B-M2C5① | — | — | | |
| | | | | DPDT | LW2B-M2C6① | — | LW2B-M2C6M① | | |
| | | | | 3PDT | LW2B-M2C7① | — | — | | |
| | | Maintained | Gold | SPDT | LW2B-A2C1① | LW2B-A2C1V① | — | | |
| | | | | DPDT | LW2B-A2C2① | LW2B-A2C2V① | LW2B-A2C2M① | | |
| | | | | 3PDT | LW2B-A2C3① | LW2B-A2C3V① | — | | |
| | | | Silver | SPDT | LW2B-A2C5① | — | — | | |
| | | | | DPDT | LW2B-A2C6① | — | LW2B-A2C6M① | | |
| | | | | 3PDT | LW2B-A2C7① | — | — | | |
| | | Round Extended with Square Bezel LW3B-M2 LW3B-A2   | Button | Momentary | Gold | SPDT | LW3B-M2C1① | LW3B-M2C1V① | — |
| | | | | | | DPDT | LW3B-M2C2① | LW3B-M2C2V① | LW3B-M2C2M① |
| 3PDT | LW3B-M2C3① | | | | | LW3B-M2C3V① | — | | |
| Silver | SPDT | | | | LW3B-M2C5① | — | — | | |
| | DPDT | | | | LW3B-M2C6① | — | LW3B-M2C6M① | | |
| | 3PDT | | | | LW3B-M2C7① | — | — | | |
| Maintained | Gold | | | SPDT | LW3B-A2C1① | LW3B-A2C1V① | — | | |
| | | | | DPDT | LW3B-A2C2① | LW3B-A2C2V① | LW3B-A2C2M① | | |
| | | | | 3PDT | LW3B-A2C3① | LW3B-A2C3V① | — | | |
| | Silver | | | SPDT | LW3B-A2C5① | — | — | | |
| | | | | DPDT | LW3B-A2C6① | — | LW3B-A2C6M① | | |
| | | | | 3PDT | LW3B-A2C7① | — | — | | |

• Specify button color code in place of ①. B: black, G: green, R: red, S: blue, W: white, Y: yellow

ø22 LW Series Pushbuttons

Mushroom Pushbuttons

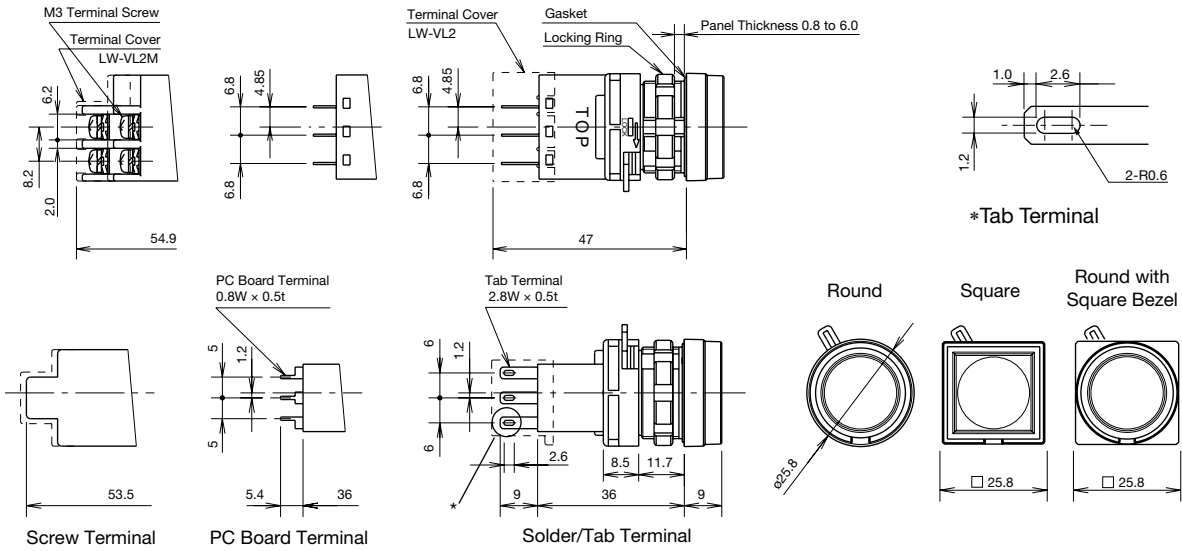
Package Quantity: 1

| Shape | Button Style | Operation | Contact Material | Contact | Part No. | | |
|---|--------------|------------|------------------|---------|---------------------|-------------------|----------------|
| | | | | | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| ø30mm Mushroom LW1B-M3 LW1B-A3  | Button | Momentary | Gold | SPDT | LW1B-M3C1① | LW1B-M3C1V① | — |
| | | | | DPDT | LW1B-M3C2① | LW1B-M3C2V① | LW1B-M3C2M① |
| | | | | 3PDT | LW1B-M3C3① | LW1B-M3C3V① | — |
| | | | Silver | SPDT | LW1B-M3C5① | — | — |
| | | | | DPDT | LW1B-M3C6① | — | LW1B-M3C6M① |
| | | | | 3PDT | LW1B-M3C7① | — | — |
| | | Maintained | Gold | SPDT | LW1B-A3C1① | LW1B-A3C1V① | — |
| | | | | DPDT | LW1B-A3C2① | LW1B-A3C2V① | LW1B-A3C2M① |
| | | | | 3PDT | LW1B-A3C3① | LW1B-A3C3V① | — |
| | | | Silver | SPDT | LW1B-A3C5① | — | — |
| | | | | DPDT | LW1B-A3C6① | — | LW1B-A3C6M① |
| | | | | 3PDT | LW1B-A3C7① | — | — |
| | Lens | Momentary | Gold | SPDT | LW1B-M3C1L② | LW1B-M3C1VL② | — |
| | | | | DPDT | LW1B-M3C2L② | LW1B-M3C2VL② | LW1B-M3C2ML② |
| | | | | 3PDT | LW1B-M3C3L② | LW1B-M3C3VL② | — |
| | | | Silver | SPDT | LW1B-M3C5L② | — | — |
| | | | | DPDT | LW1B-M3C6L② | — | LW1B-M3C6ML② |
| | | | | 3PDT | LW1B-M3C7L② | — | — |
| | | Maintained | Gold | SPDT | LW1B-A3C1L② | LW1B-A3C1VL② | — |
| | | | | DPDT | LW1B-A3C2L② | LW1B-A3C2VL② | LW1B-A3C2ML② |
| | | | | 3PDT | LW1B-A3C3L② | LW1B-A3C3VL② | — |
| | | | Silver | SPDT | LW1B-A3C5L② | — | — |
| | | | | DPDT | LW1B-A3C6L② | — | LW1B-A3C6ML② |
| | | | | 3PDT | LW1B-A3C7L② | — | — |

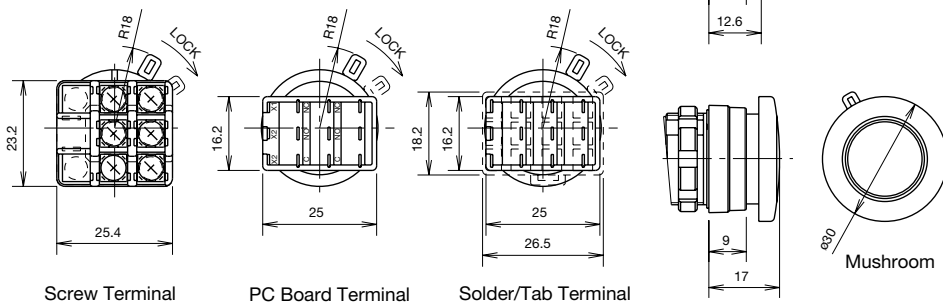


- Specify button color code in place of ①. B: black, G: green, R: red, S: blue, W: white, Y: yellow
- Specify lens color code in place of ②. A: amber, G: green, R: red, S: blue, W: white, Y: yellow
Black lens consists of a clear lens and a black marking plate. (Without CCC marking)
- Lens style buttons can be used with legend markings. For details on marking plate and film, see page 27.

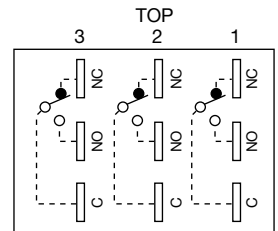
Dimensions



Bottom View

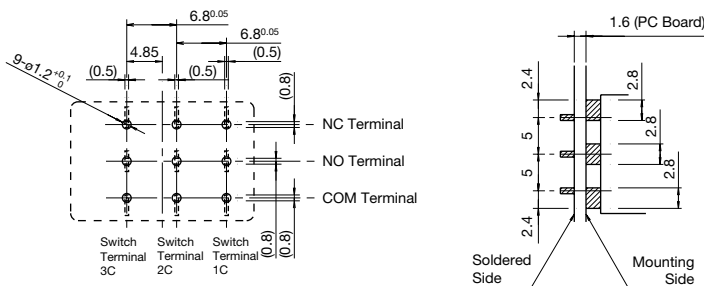


Terminal Arrangement (Bottom View)



Note: SPDT has C, NO, and NC only in the center.
 DPDT has C, NO, and NC only on the right and left.
 Screw terminal type is DPDT.

PC Board Drilling Layout (Bottom View)



Pay attention to the pattern of the PC board as the terminals on the mounting surface are 2.8 mm wide.

All dimensions in mm



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ø22 LW Series Pilot Lights

Pilot Lights

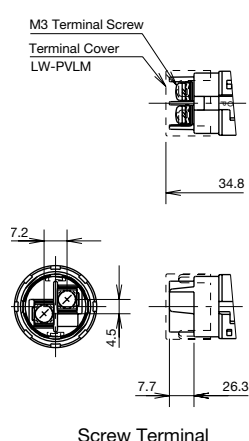
Package Quantity: 1

| Shape | Operating Voltage | Part No | | | ② Color Code |
|--|-------------------|-------------------------------|---|--------------------------|--|
| | | Solder/Tab Terminal (Unibody) | PC Board Terminal (Removable Contact Block) | Screw Terminal (Unibody) | |
| Round Flush LW1P   | 6V AC/DC±10% | LW1P-12② | LW1P-1C02V② | LW1P-12M② | Specify a color code in place of ② in the Part No. A: amber G: green PW: pure white R: red S: blue W: white Y: yellow |
| | 12V AC/DC±10% | LW1P-13② | LW1P-1C03V② | LW1P-13M② | |
| | 24V AC/DC±10% | LW1P-14② | LW1P-1C04V② | LW1P-14M② | |
| Square Flush LW2P   | 6V AC/DC±10% | LW2P-12② | LW2P-1C02V② | LW2P-12M② | |
| | 12V AC/DC±10% | LW2P-13② | LW2P-1C03V② | LW2P-13M② | |
| | 24V AC/DC±10% | LW2P-14② | LW2P-1C04V② | LW2P-14M② | |
| Round Flush with Square Bezel LW3P   | 6V AC/DC±10% | LW3P-12② | LW3P-1C02V② | LW3P-12M② | |
| | 12V AC/DC±10% | LW3P-13② | LW3P-1C03V② | LW3P-13M② | |
| | 24V AC/DC±10% | LW3P-14② | LW3P-1C04V② | LW3P-14M② | |

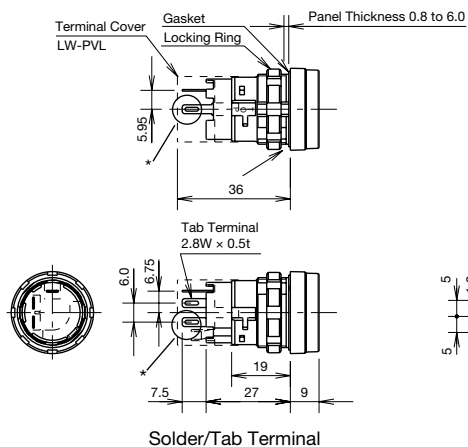
- Every pilot light is supplied with an LED lamp (LSTD) of the specified color and voltage.
- A pure white LED lamp is used for yellow illumination.
- For marking plate and film, see page 27.
- When using white lens unit (clear lens + white marking plate) with color codes A, G, R, or S, specify "W" before ② in the part no.
Example: LW1P-12W②

Dimensions

Unibody

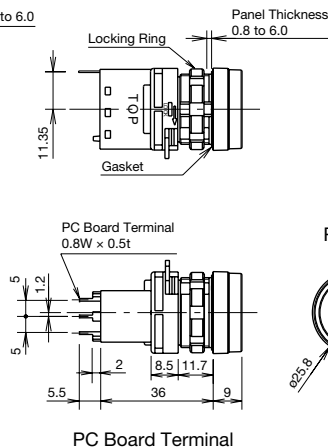


Screw Terminal

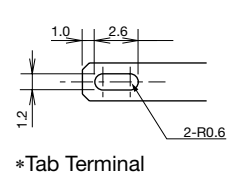


Solder/Tab Terminal

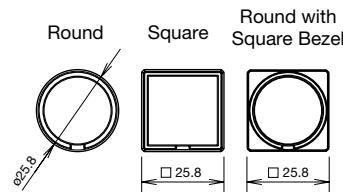
Removable Contact Block



PC Board Terminal



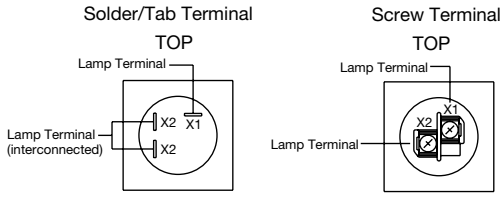
*Tab Terminal



All dimensions in mm.

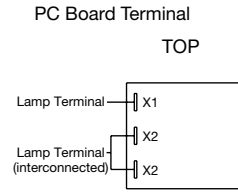
Terminal Arrangement

Unibody



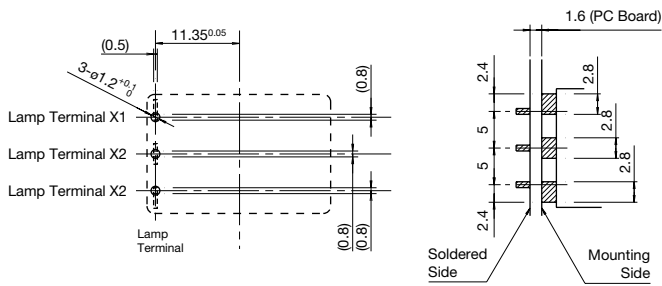
- Lamp terminals do not have any polarity.

Removable Contact Block



- Lamp terminals do not have any polarity.

PC Board Drilling Layout (Bottom View)



Pay attention to the pattern of the PC board as the terminals on the mounting surface are 2.8 mm wide.

All dimensions in mm.

ø22 LW Series Illuminated Pushbuttons

Flush / Extended Illuminated Pushbuttons

Package Quantity: 1

| Shape | Lamp | Operation | Contact Material | Contact | Part No. | | |
|--|------|------------|------------------|---------|-------------------------|--------------------------|--------------------------|
| | | | | | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| Round Flush LW1L-M1 LW1L-A1   | LED | Momentary | Gold | SPDT | LW1L-M1C1 ^{②③} | LW1L-M1C1 ^{③V②} | — |
| | | | | DPDT | LW1L-M1C2 ^{③②} | LW1L-M1C2 ^{③V②} | LW1L-M1C2 ^{③M②} |
| | | | | 3PDT | LW1L-M1C3 ^{③②} | LW1L-M1C3 ^{③V②} | — |
| | | | Silver | SPDT | LW1L-M1C5 ^{③②} | — | — |
| | | | | DPDT | LW1L-M1C6 ^{③②} | — | LW1L-M1C6 ^{③M②} |
| | | | | 3PDT | LW1L-M1C7 ^{③②} | — | — |
| | | Maintained | Gold | SPDT | LW1L-A1C1 ^{③②} | LW1L-A1C1 ^{③V②} | — |
| | | | | DPDT | LW1L-A1C2 ^{③②} | LW1L-A1C2 ^{③V②} | LW1L-A1C2 ^{③M②} |
| | | | | 3PDT | LW1L-A1C3 ^{③②} | LW1L-A1C3 ^{③V②} | — |
| | | | Silver | SPDT | LW1L-A1C5 ^{③②} | — | — |
| | | | | DPDT | LW1L-A1C6 ^{③②} | — | LW1L-A1C6 ^{③M②} |
| | | | | 3PDT | LW1L-A1C7 ^{③②} | — | — |
| Round Extended LW1L-M2 LW1L-A2   | LED | Momentary | Gold | SPDT | LW1L-M2C1 ^{③②} | LW1L-M2C1 ^{③V②} | — |
| | | | | DPDT | LW1L-M2C2 ^{③②} | LW1L-M2C2 ^{③V②} | LW1L-M2C2 ^{③M②} |
| | | | | 3PDT | LW1L-M2C3 ^{③②} | LW1L-M2C3 ^{③V②} | — |
| | | | Silver | SPDT | LW1L-M2C5 ^{③②} | — | — |
| | | | | DPDT | LW1L-M2C6 ^{③②} | — | LW1L-M2C6 ^{③M②} |
| | | | | 3PDT | LW1L-M2C7 ^{③②} | — | — |
| | | Maintained | Gold | SPDT | LW1L-A2C1 ^{③②} | LW1L-A2C1 ^{③V②} | — |
| | | | | DPDT | LW1L-A2C2 ^{③②} | LW1L-A2C2 ^{③V②} | LW1L-A2C2 ^{③M②} |
| | | | | 3PDT | LW1L-A2C3 ^{③②} | LW1L-A2C3 ^{③V②} | — |
| | | | Silver | SPDT | LW1L-A2C5 ^{③②} | — | — |
| | | | | DPDT | LW1L-A2C6 ^{③②} | — | LW1L-A2C6 ^{③M②} |
| | | | | 3PDT | LW1L-A2C7 ^{③②} | — | — |
| Square Flush LW2L-M1 LW2L-A1   | LED | Momentary | Gold | SPDT | LW2L-M1C1 ^{③②} | LW2L-M1C1 ^{③V②} | — |
| | | | | DPDT | LW2L-M1C2 ^{③②} | LW2L-M1C2 ^{③V②} | LW2L-M1C2 ^{③M②} |
| | | | | 3PDT | LW2L-M1C3 ^{③②} | LW2L-M1C3 ^{③V②} | — |
| | | | Silver | SPDT | LW2L-M1C5 ^{③②} | — | — |
| | | | | DPDT | LW2L-M1C6 ^{③②} | — | LW2L-M1C6 ^{③M②} |
| | | | | 3PDT | LW2L-M1C7 ^{③②} | — | — |
| | | Maintained | Gold | SPDT | LW2L-A1C1 ^{③②} | LW2L-A1C1 ^{③V②} | — |
| | | | | DPDT | LW2L-A1C2 ^{③②} | LW2L-A1C2 ^{③V②} | LW2L-A1C2 ^{③M②} |
| | | | | 3PDT | LW2L-A1C3 ^{③②} | LW2L-A1C3 ^{③V②} | — |
| | | | Silver | SPDT | LW2L-A1C5 ^{③②} | — | — |
| | | | | DPDT | LW2L-A1C6 ^{③②} | — | LW2L-A1C6 ^{③M②} |
| | | | | 3PDT | LW2L-A1C7 ^{③②} | — | — |

Color Code and Operating Voltage Code

| ② Color Code | ③ Operating Voltage Code |
|--|--|
| Specify a color code in place of ②. | Specify an operating voltage code in place of ③. |
| A: amber G: green PW: pure white R: red S: blue W: white Y: yellow | 2: 6V AC/DC 3: 12V AC/DC 4: 24V AC/DC |

- Every illuminated pushbutton contains an LED lamp (LSTD) of the specified color and voltage.
- A pure white LED lamp is used for yellow illumination.
- For marking plate and film, see page 27.
- When using white lens unit (clear lens + white marking plate) with color codes A, G, R, or S, specify "W" before ② in the Part No.
Example: LW1L-M1C22W^②



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Flush / Mushroom Illuminated Pushbuttons

Package Quantity: 1

| Shape | Lamp | Operation | Contact Material | Contact | Part No. | | |
|---|-------------------------|--|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | | | | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| Round Flush with Square Bezel LW3L-M1 LW3L-A1   | LED | Momentary | Gold | SPDT | LW3L-M1C1 ^{③②} | LW3L-M1C1 ^{③V②} | — |
| | | | | DPDT | LW3L-M1C2 ^{③②} | LW3L-M1C2 ^{③V②} | LW3L-M1C2 ^{③M②} |
| | | | | 3PDT | LW3L-M1C3 ^{③②} | LW3L-M1C3 ^{③V②} | — |
| | | | Silver | SPDT | LW3L-M1C5 ^{③②} | — | — |
| | | | | DPDT | LW3L-M1C6 ^{③②} | — | LW3L-M1C6 ^{③M②} |
| | | | | 3PDT | LW3L-M1C7 ^{③②} | — | — |
| | | DPDT | LW3L-A1C2 ^{③②} | LW3L-A1C2 ^{③V②} | LW3L-A1C2 ^{③M②} | | |
| | | 3PDT | LW3L-A1C3 ^{③②} | LW3L-A1C3 ^{③V②} | — | | |
| | | Silver | SPDT | LW3L-A1C5 ^{③②} | — | — | |
| | | | DPDT | LW3L-A1C6 ^{③②} | — | LW3L-A1C6 ^{③M②} | |
| | | | 3PDT | LW3L-A1C7 ^{③②} | — | — | |
| | | ø30mm Mushroom LW1L-M3 LW1L-A3   | LED | Momentary | Gold | SPDT | LW1L-M3C1 ^{③②} |
| DPDT | LW1L-M3C2 ^{③②} | | | | | LW1L-M3C2 ^{③V②} | LW1L-M3C2 ^{③M②} |
| 3PDT | LW1L-M3C3 ^{③②} | | | | | LW1L-M3C3 ^{③V②} | — |
| Silver | SPDT | | | | LW1L-M3C5 ^{③②} | — | — |
| | DPDT | | | | LW1L-M3C6 ^{③②} | — | LW1L-M3C6 ^{③M②} |
| | 3PDT | | | | LW1L-M3C7 ^{③②} | — | — |
| DPDT | LW1L-A3C2 ^{③②} | | | LW1L-A3C2 ^{③V②} | LW1L-A3C2 ^{③M②} | | |
| 3PDT | LW1L-A3C3 ^{③②} | | | LW1L-A3C3 ^{③V②} | — | | |
| Silver | SPDT | | | LW1L-A3C5 ^{③②} | — | — | |
| | DPDT | | | LW1L-A3C6 ^{③②} | — | LW1L-A3C6 ^{③M②} | |
| | 3PDT | | | LW1L-A3C7 ^{③②} | — | — | |

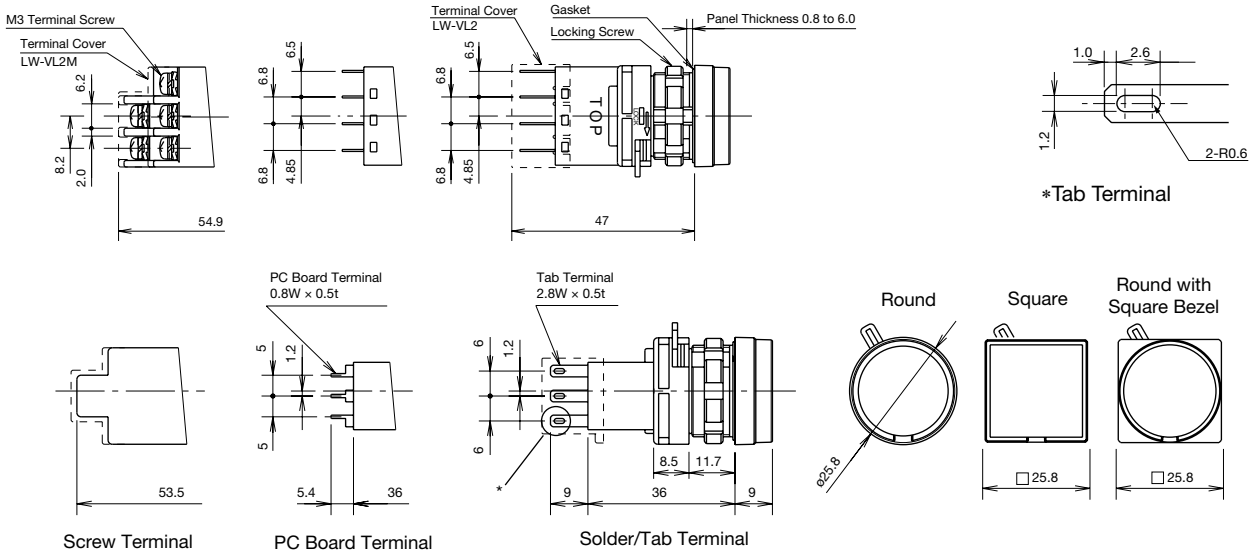
Color Code and Operating Voltage Code

| ② Color Code | ③ Operating Voltage Code |
|---|---|
| Specify a color code in place of ②. A: amber G: green PW: pure white R: red S: blue W: white Y: yellow | Specify an operating voltage code in place of ③. 2: 6V AC/DC 3: 12V AC/DC 4: 24V AC/DC |

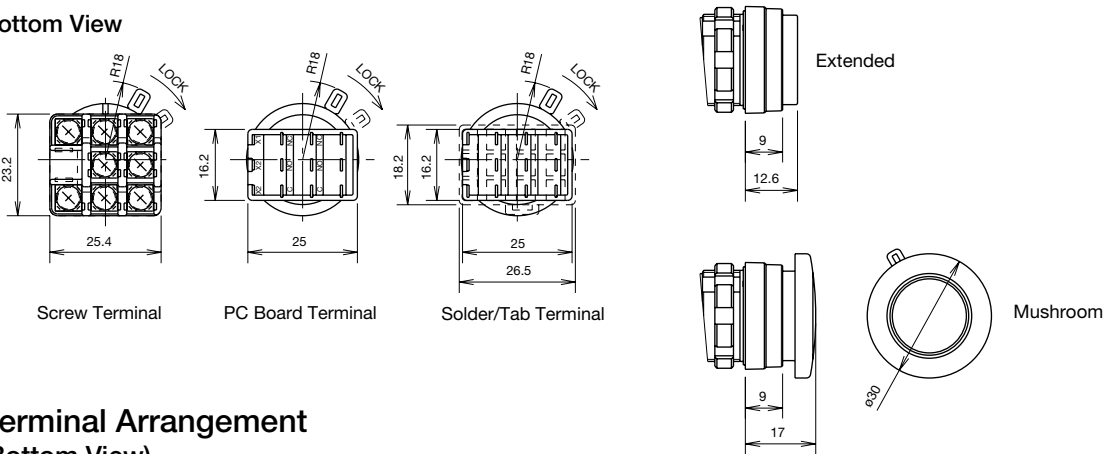
- Every illuminated pushbutton contains an LED lamp (LSTD) of the specified color and voltage.
- A pure white LED lamp is used for yellow illumination.
- For marking plate and film, see page 27.
- When using white lens unit (clear lens + white marking plate) with color codes A, G, R, or S, specify “W” before ② in the Part No.
 Example: **LW3L-M1C22W^②**

ø22 LW Series Illuminated Pushbuttons

Dimensions

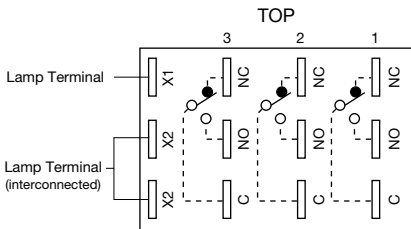


Bottom View

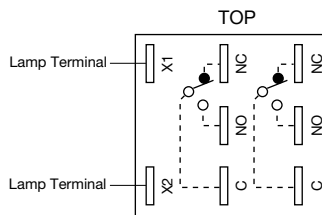


Terminal Arrangement (Bottom View)

Solder/Tab Terminal

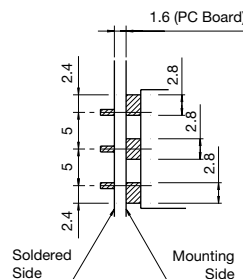
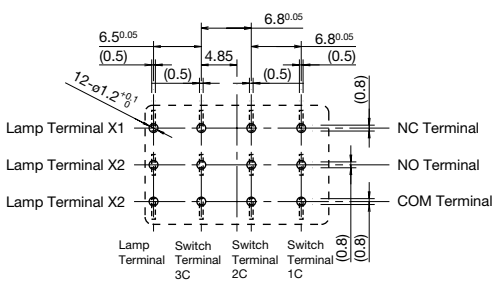


Screw Terminal



Note: SPDT has C, NO, and NC only in the center.
DPDT has C, NO, and NC only on the right and left.
Lamp terminals do not have any polarities.

PC Board Drilling Layout (Bottom View)







All dimensions in mm.



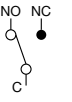
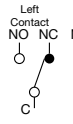
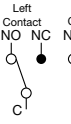

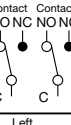

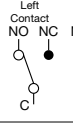
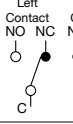
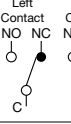
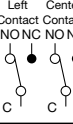
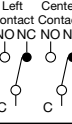
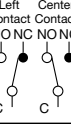
Pay attention to the pattern of the PC board as the terminals on the mounting surface are 2.8 mm wide.

Selector Switches

Package Quantity: 1

| Shape | Operation | Position | Contact Material | Contact | Part No. | | |
|---|---------------------------------|---|------------------|---------|---------------------|-------------------|----------------|
| | | | | | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| Round LW1S   | 90° 2-position Maintained |  | Gold | SPDT | LW1S-2C1 | LW1S-2C1V | — |
| | | | | DPDT | LW1S-2C2 | LW1S-2C2V | LW1S-2C2M |
| | | | | 3PDT | LW1S-2C3 | LW1S-2C3V | — |
| | | | Silver | SPDT | LW1S-2C5 | — | — |
| | | | | DPDT | LW1S-2C6 | — | LW1S-2C6M |
| | | | | 3PDT | LW1S-2C7 | — | — |
| | 45° 3-position Maintained |  | Gold | DPDT | LW1S-3C2 | LW1S-3C2V | LW1S-3C2M |
| | | | | 3PDT | LW1S-3C3 | LW1S-3C3V | — |
| | | | | DPDT | LW1S-3C6 | — | LW1S-3C6M |
| | | | Silver | 3PDT | LW1S-3C7 | — | — |





Contact Operation

| Operation | Contact | Operator Position and Contact Position (Top View) | | |
|--|---------|---|---|---|
| | | Left | Center | Right |
|  90° 2-Position Maintained | SPDT |  | — |  |
| | DPDT |  | — |  |
| | 3PDT |  | — |  |
|  45° 3-position Maintained | DPDT |  |  |  |
| | 3PDT |  |  |  |

ø22 LW Series Selector Switches

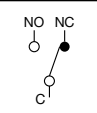
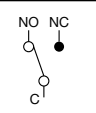
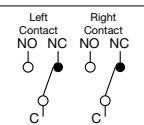
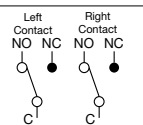
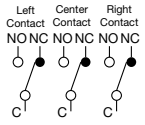
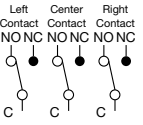
Key Selector Switches (2-Position)

Package Quantity: 1

| Shape | Operation | Key Retained at ● | Contact Material | Contact | Part No. | | |
|---|---------------------------------|-------------------|------------------|---------|---------------------|-------------------|----------------|
| | | | | | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| Round LW1K-2   | 90° 2-position Maintained | A | Gold | SPDT | LW1K-2C1A | LW1K-2C1VA | — |
| | | | | DPDT | LW1K-2C2A | LW1K-2C2VA | LW1K-2C2MA |
| | | | | 3PDT | LW1K-2C3A | LW1K-2C3VA | — |
| | | | Silver | SPDT | LW1K-2C5A | — | — |
| | | | | DPDT | LW1K-2C6A | — | LW1K-2C6MA |
| | | | | 3PDT | LW1K-2C7A | — | — |
| | | B | Gold | SPDT | LW1K-2C1B | LW1K-2C1VB | — |
| | | | | DPDT | LW1K-2C2B | LW1K-2C2VB | LW1K-2C2MB |
| | | | | 3PDT | LW1K-2C3B | LW1K-2C3VB | — |
| | | | Silver | SPDT | LW1K-2C5B | — | — |
| | | | | DPDT | LW1K-2C6B | — | LW1K-2C6MB |
| | | | | 3PDT | LW1K-2C7B | — | — |
| | | C | Gold | SPDT | LW1K-2C1C | LW1K-2C1VC | — |
| | | | | DPDT | LW1K-2C2C | LW1K-2C2VC | LW1K-2C2MC |
| | | | | 3PDT | LW1K-2C3C | LW1K-2C3VC | — |
| | | | Silver | SPDT | LW1K-2C5C | — | — |
| | | | | DPDT | LW1K-2C6C | — | LW1K-2C6MC |
| | | | | 3PDT | LW1K-2C7C | — | — |
| Round with Square Bezel LW3K-2   | 90° 2-position Maintained | A | Gold | SPDT | LW3K-2C1A | LW3K-2C1VA | — |
| | | | | DPDT | LW3K-2C2A | LW3K-2C2VA | LW3K-2C2MA |
| | | | | 3PDT | LW3K-2C3A | LW3K-2C3VA | — |
| | | | Silver | SPDT | LW3K-2C5A | — | — |
| | | | | DPDT | LW3K-2C6A | — | LW3K-2C6MA |
| | | | | 3PDT | LW3K-2C7A | — | — |
| | | B | Gold | SPDT | LW3K-2C1B | LW3K-2C1VB | — |
| | | | | DPDT | LW3K-2C2B | LW3K-2C2VB | LW3K-2C2MB |
| | | | | 3PDT | LW3K-2C3B | LW3K-2C3VB | — |
| | | | Silver | SPDT | LW3K-2C5B | — | — |
| | | | | DPDT | LW3K-2C6B | — | LW3K-2C6MB |
| | | | | 3PDT | LW3K-2C7B | — | — |
| | | C | Gold | SPDT | LW3K-2C1C | LW3K-2C1VC | — |
| | | | | DPDT | LW3K-2C2C | LW3K-2C2VC | LW3K-2C2MC |
| | | | | 3PDT | LW3K-2C3C | LW3K-2C3VC | — |
| | | | Silver | SPDT | LW3K-2C5C | — | — |
| | | | | DPDT | LW3K-2C6C | — | LW3K-2C6MC |
| | | | | 3PDT | LW3K-2C7C | — | — |



- Key is retained in ● position and removable in ○ position.
- Two keys are supplied.
- Key cylinder face (plastic): Black
- 3 types of key numbers -2, -3, and -5 are available in addition to standard keys. (without CCC marking)
Example: LW3K-2C2A-2

Contact Operation

| Operation | Contact | Operator Position and Contact Position (Top View) | |
|--|---------|---|---|
| | | Left | Right |
| L R 90° 2-Position Maintained | SPDT |  |  |
| | DPDT |  |  |
| | 3PDT |  |  |


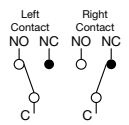
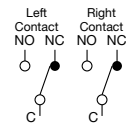
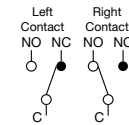
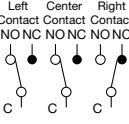
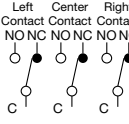
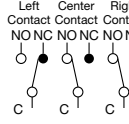
Key Selector Switches (3-Position)

Package Quantity: 1

| Shape | Operation | Key Retained at ● | Contact Material | Contact | Part No. | | | | |
|---|---------------------------------|-------------------|------------------|-----------|---------------------|-------------------|----------------|------------|------------|
| | | | | | Solder/Tab Terminal | PC Board Terminal | Screw Terminal | | |
| Round LW1K-3   | 45° 3-position Maintained | A | ● | Gold | DPDT | LW1K-3C2A | LW1K-3C2VA | LW1K-3C2MA | |
| | | | | 3PDT | LW1K-3C3A | LW1K-3C3VA | — | | |
| | | | | Silver | DPDT | LW1K-3C6A | — | LW1K-3C6MA | |
| | | | 3PDT | LW1K-3C7A | — | — | | | |
| | | | B | ● | Gold | DPDT | LW1K-3C2B | LW1K-3C2VB | LW1K-3C2MB |
| | | | | | 3PDT | LW1K-3C3B | LW1K-3C3VB | — | |
| | | Silver | | | DPDT | LW1K-3C6B | — | LW1K-3C6MB | |
| | | 3PDT | | LW1K-3C7B | — | — | | | |
| | | C | | ● | Gold | DPDT | LW1K-3C2C | LW1K-3C2VC | LW1K-3C2MC |
| | | | | | 3PDT | LW1K-3C3C | LW1K-3C3VC | — | |
| | | | Silver | | DPDT | LW1K-3C6C | — | LW1K-3C6MC | |
| | | | 3PDT | LW1K-3C7C | — | — | | | |
| | | | D | ● | Gold | DPDT | LW1K-3C2D | LW1K-3C2VD | LW1K-3C2MD |
| | | | | | 3PDT | LW1K-3C3D | LW1K-3C3VD | — | |
| | | Silver | | | DPDT | LW1K-3C6D | — | LW1K-3C6MD | |
| | | 3PDT | | LW1K-3C7D | — | — | | | |
| | | E | | ● | Gold | DPDT | LW1K-3C2E | LW1K-3C2VE | LW1K-3C2ME |
| | | | | | 3PDT | LW1K-3C3E | LW1K-3C3VE | — | |
| | | | Silver | | DPDT | LW1K-3C6E | — | LW1K-3C6ME | |
| | | | 3PDT | LW1K-3C7E | — | — | | | |
| | | | G | ● | Gold | DPDT | LW1K-3C2G | LW1K-3C2VG | LW1K-3C2MG |
| | | | | | 3PDT | LW1K-3C3G | LW1K-3C3VG | — | |
| | | Silver | | | DPDT | LW1K-3C6G | — | LW1K-3C6MG | |
| | | 3PDT | | LW1K-3C7G | — | — | | | |
| | | H | | ● | Gold | DPDT | LW1K-3C2H | LW1K-3C2VH | LW1K-3C2MH |
| | | | | | 3PDT | LW1K-3C3H | LW1K-3C3VH | — | |
| | | | Silver | | DPDT | LW1K-3C6H | — | LW1K-3C6MH | |
| | | | 3PDT | LW1K-3C7H | — | — | | | |

- Key is retained in ● position and removable in ○ position.
- Two keys are supplied.
- Key cylinder face (plastic): Black
- 3 types of key numbers -2, -3, and -5 are available in addition to standard keys. (without CCC marking)
Example: LW1K-3C2A-2

Contact Operation

| Operation | Contact | Operator Position and Contact Position (Top View) | | |
|--|---------|---|---|---|
| | | Left | Center | Right |
| 45° 3-position Maintained  | DPDT |  |  |  |
| | 3PDT |  |  |  |



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ø22 LW Series Selector Switches


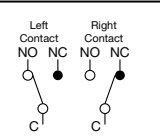
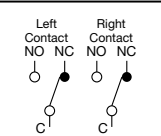
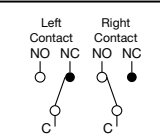
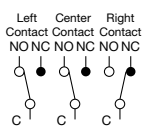
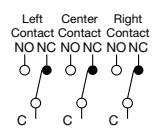
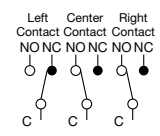
Key Selector Switches (3-Position)

Package Quantity: 1

| Shape | Operation | Key Retained at ● | Contact Material | Contact | Part No. | | | |
|---|---------------------------------|-------------------|------------------|-----------|---------------------|-------------------|----------------|------------|
| | | | | | Solder/Tab Terminal | PC Board Terminal | Screw Terminal | |
| Round with Square Bezel LW3K-3   | 45° 3-position Maintained | A | Gold | DPDT | LW3K-3C2A | LW3K-3C2VA | LW3K-3C2MA | |
| | | | | 3PDT | LW3K-3C3A | LW3K-3C3VA | — | |
| | | | | Silver | DPDT | LW3K-3C6A | — | LW3K-3C6MA |
| | | | 3PDT | LW3K-3C7A | — | — | | |
| | | | B | Gold | DPDT | LW3K-3C2B | LW3K-3C2VB | LW3K-3C2MB |
| | | | | | 3PDT | LW3K-3C3B | LW3K-3C3VB | — |
| | | Silver | | | DPDT | LW3K-3C6B | — | LW3K-3C6MB |
| | | 3PDT | | LW3K-3C7B | — | — | | |
| | | C | | Gold | DPDT | LW3K-3C2C | LW3K-3C2VC | LW3K-3C2MC |
| | | | | | 3PDT | LW3K-3C3C | LW3K-3C3VC | — |
| | | | Silver | | DPDT | LW3K-3C6C | — | LW3K-3C6MC |
| | | | 3PDT | LW3K-3C7C | — | — | | |
| | | | D | Gold | DPDT | LW3K-3C2D | LW3K-3C2VD | LW3K-3C2MD |
| | | | | | 3PDT | LW3K-3C3D | LW3K-3C3VD | — |
| | | Silver | | | DPDT | LW3K-3C6D | — | LW3K-3C6MD |
| | | 3PDT | | LW3K-3C7D | — | — | | |
| | | E | | Gold | DPDT | LW3K-3C2E | LW3K-3C2VE | LW3K-3C2ME |
| | | | | | 3PDT | LW3K-3C3E | LW3K-3C3VE | — |
| | | | Silver | | DPDT | LW3K-3C6E | — | LW3K-3C6ME |
| | | | 3PDT | LW3K-3C7E | — | — | | |
| | | | G | Gold | DPDT | LW3K-3C2G | LW3K-3C2VG | LW3K-3C2MG |
| | | | | | 3PDT | LW3K-3C3G | LW3K-3C3VG | — |
| | | Silver | | | DPDT | LW3K-3C6G | — | LW3K-3C6MG |
| | | 3PDT | | LW3K-3C7G | — | — | | |
| H | Gold | DPDT | | LW3K-3C2H | LW3K-3C2VH | LW3K-3C2MH | | |
| | | 3PDT | | LW3K-3C3H | LW3K-3C3VH | — | | |
| | | Silver | DPDT | LW3K-3C6H | — | LW3K-3C6MH | | |
| | 3PDT | LW3K-3C7H | — | — | | | | |

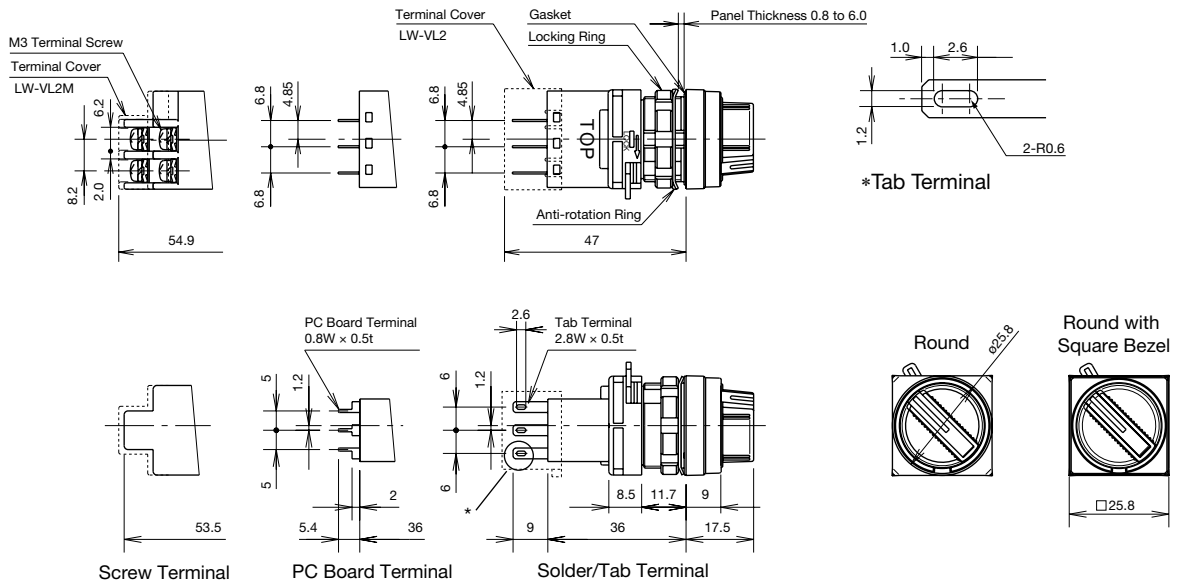
- Key is retained in ● position and removable in ○ position.
- Two keys are supplied.
- Key cylinder face (plastic): Black
- 3 types of key numbers -2, -3, and -5 are available in addition to standard keys. (without CCC marking)
Example: LW3K-3C2A-2

Contact Operation

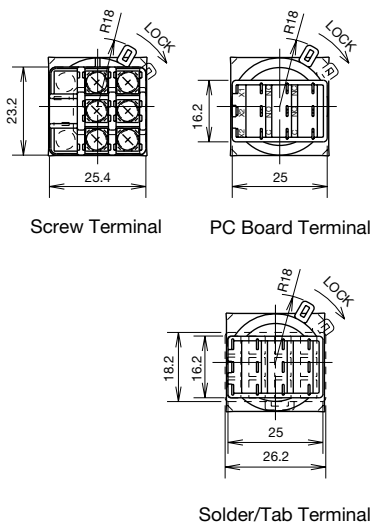
| Operation | Contact | Operator Position and Contact Position (Top View) | | |
|--|---------|---|---|---|
| | | Left | Center | Right |
| 45° 3-position Maintained  | DPDT |  |  |  |
| | 3PDT |  |  |  |

Dimensions

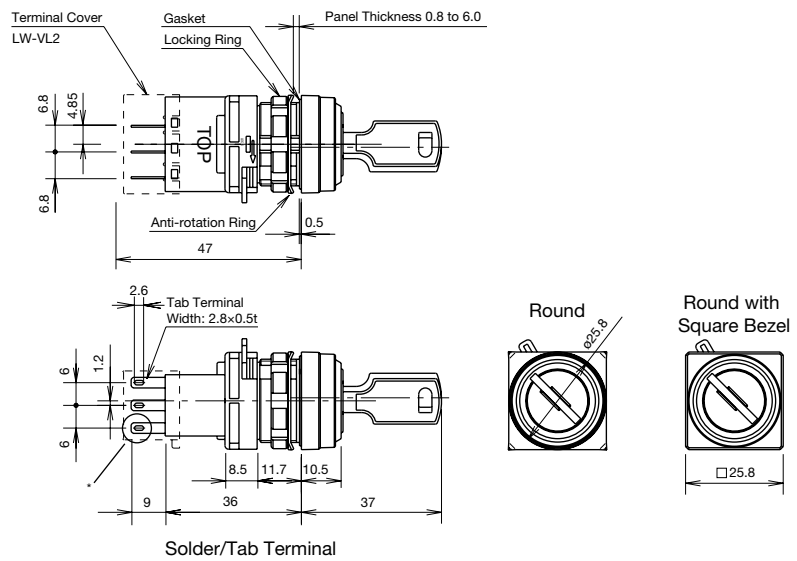
Selector Switch



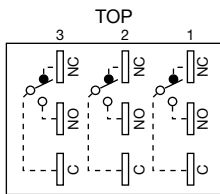
Bottom View



Key Selector Switch

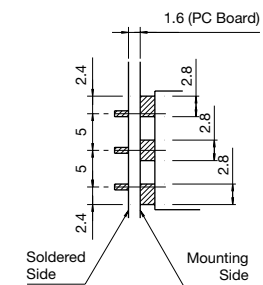
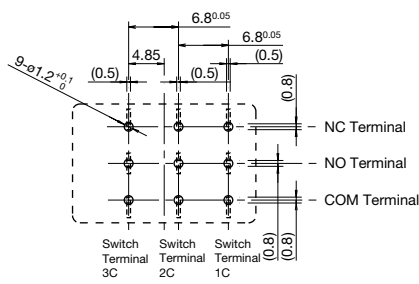


Terminal Arrangement (Bottom View)



Note: SPDT has C, NO, and NC only in the center.
 DPDT has C, NO, and NC only on the right and left.

PC Board Drilling Layout (Bottom View)











Pay attention to the pattern of the PC board as the terminals on the mounting surface are 2.8 mm wide.

All dimensions in mm.

ø22 LW Series Illuminated Selector Switches

Illuminated Selector Switches

Package Quantity: 1

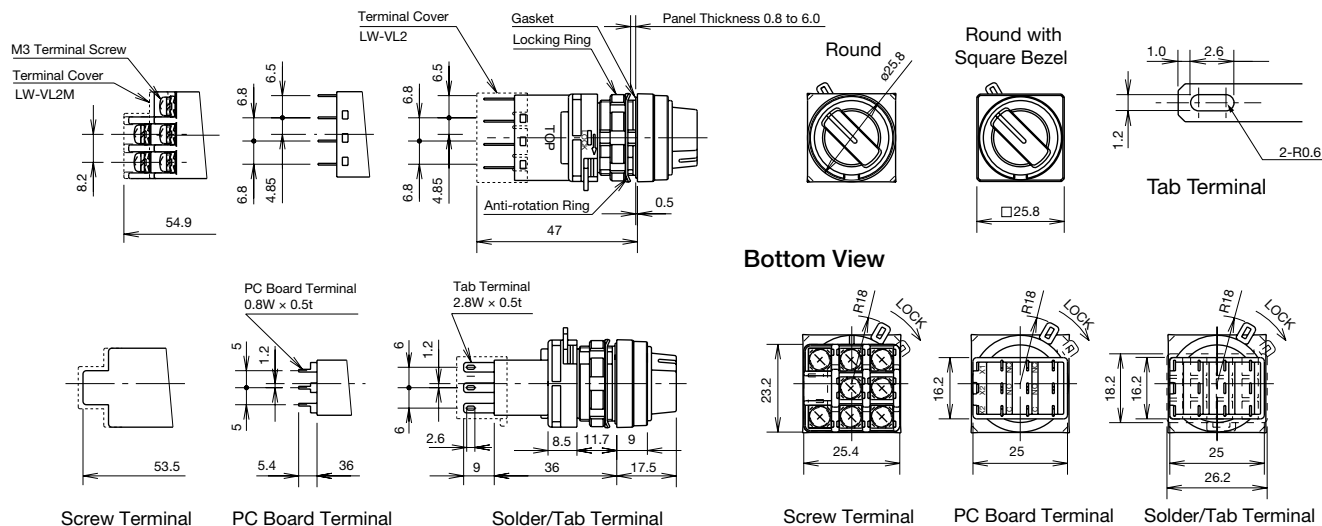
| Shape | Lamp | Operation | Contact Material | Contact | Part No. | | |
|--|--|--|------------------|------------------------|-------------------------|-------------------------|-------------------------|
| | | | | | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| Round LW1F-2C LW1F-3C  | LED | 90° 2-position Maintained  | Gold | SPDT | LW1F-2C1 ^{②③} | LW1F-2C1 ^{③V②} | — |
| | | | | DPDT | LW1F-2C2 ^{②③} | LW1F-2C2 ^{③V②} | LW1F-2C2 ^{③M②} |
| | | | | 3PDT | LW1F-2C3 ^{②③} | LW1F-2C3 ^{③V②} | — |
| | LED | 45° 3-position Maintained  | Gold | DPDT | LW1F-3C2 ^{②③} | LW1F-3C2 ^{③V②} | LW1F-3C2 ^{③M②} |
| | | | | 3PDT | LW1F-3C3 ^{②③} | LW1F-3C3 ^{③V②} | — |
| | | | | Silver | DPDT | LW1F-3C6 ^{②③} | — |
| Round with Square Bezel LW3F-2C LW3F-3C  | LED | 90° 2-position Maintained  | Gold | SPDT | LW3F-2C1 ^{②③} | LW3F-2C1 ^{③V②} | — |
| | | | | DPDT | LW3F-2C2 ^{②③} | LW3F-2C2 ^{③V②} | LW3F-2C2 ^{③M②} |
| | | | | 3PDT | LW3F-2C3 ^{②③} | LW3F-2C3 ^{③V②} | — |
| | LED | 45° 3-position Maintained  | Silver | SPDT | LW3F-2C5 ^{②③} | — | — |
| | | | | DPDT | LW3F-2C6 ^{②③} | — | LW3F-2C6 ^{③M②} |
| | | | | 3PDT | LW3F-2C7 ^{②③} | — | — |
| LED | 90° 2-position Maintained  | Gold | DPDT | LW3F-3C2 ^{②③} | LW3F-3C2 ^{③V②} | LW3F-3C2 ^{③M②} | |
| | | | 3PDT | LW3F-3C3 ^{②③} | LW3F-3C3 ^{③V②} | — | |
| | | | Silver | DPDT | LW3F-3C6 ^{②③} | — | LW3F-3C6 ^{③M②} |
| LED | 45° 3-position Maintained  | Silver | 3PDT | LW3F-3C7 ^{②③} | — | — | |

Color Code and Operating Voltage Code

| ② Color Code | ③ Operating Voltage Code |
|---|---|
| Specify a color code in place of ②. A: amber G: green PW: pure white R: red S: blue W: white Y: yellow | Specify an operating voltage code in place of ③. 2: 6V AC/DC 3: 12V AC/DC 4: 24V AC/DC |

- Every illuminated selector switch contains an LED lamp (LSTD) of the specified color and voltage.
- A pure white LED lamp is used for yellow illumination.

Dimensions



- For terminal arrangement and PC board dimensions, see page 21.

Buzzers



Continuous / intermittent (long) / intermittent (short) sounds can be selected with a built-in slide switch

- Collective mounting possible.
- Separate type with locking lever, easy installation even when mounted collectively.
- Round and square types available.
- Solder/tab and PC board terminal types available.
- Single board mounting possible.
- Equipped with an LED indicator which lights (steady)/flashes with the buzzer sound.

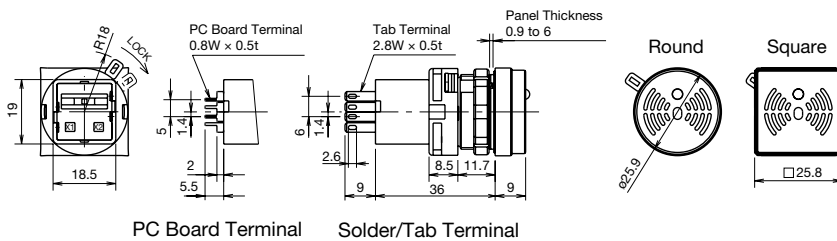
Specifications

| | |
|--------------------------|--|
| Insulation Voltage | 60V AC/DC |
| Operating Voltage | 6V, 12 to 24V AC/DC ±10% |
| Current Draw | DC: 7 mA, AC: 20 mA |
| Sound Pressure (at 0.1m) | Steady sound: 80 dB minimum (at the rated voltage) |
| Sound Frequency | 2 kHz ±500Hz |
| Flickering Cycle | Slow intermittent sound: 55 cycles per minute ±10% Quick intermittent sound: 600 cycles per minute ±10% |
| Operating Temperature | -20 to +55°C (no freezing) |
| Storage Temperature | -25 to +80°C (no freezing) |
| Operating Humidity | 45 to 85% RH (no condensation) |
| Insulation Resistance | 100 MΩ minimum (500V DC megger) |
| Dielectric Strength | Between live and metal parts: 1,000V AC, 1 minute |
| Vibration Resistance | Operating extremes, Damage limits: 5 to 55 Hz, amplitude 0.5 mm |
| Shock Resistance | Damage limits: 1,000 m/s ² |
| Life | 1,000 hours minimum |
| Degree of Protection | IP40 |
| Terminal Style | Solder/tab terminal no. 110 PC board terminal |
| Weight (approx.) | 18g (LW1Z-1X4D) |

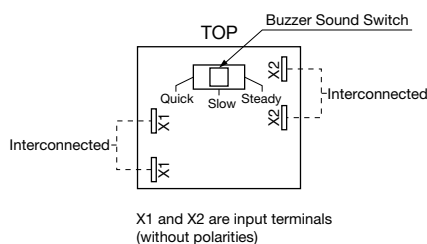
Package Quantity: 1

| Shape | Operating Voltage | LED | Part No. | |
|---|----------------------|---------|---------------------|-------------------|
| | | | Solder/Tab Terminal | PC Board Terminal |
| Round LW1Z  | 6V AC/DC ±10% | Without | LW1Z-1X2 | LW1Z-1X2V |
| | | With | LW1Z-1X2D | LW1Z-1X2DV |
| | 12 to 24V AC/DC ±10% | Without | LW1Z-1X4 | LW1Z-1X4V |
| | | With | LW1Z-1X4D | LW1Z-1X4DV |
| Square LW2Z  | 6V AC/DC ±10% | Without | LW2Z-1X2 | LW2Z-1X2V |
| | | With | LW2Z-1X2D | LW2Z-1X2DV |
| | 12 to 24V AC/DC ±10% | Without | LW2Z-1X4 | LW2Z-1X4V |
| | | With | LW2Z-1X4D | LW2Z-1X4DV |

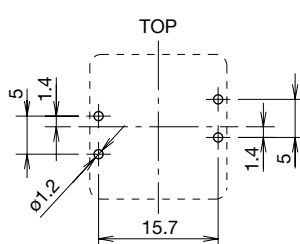
Dimensions



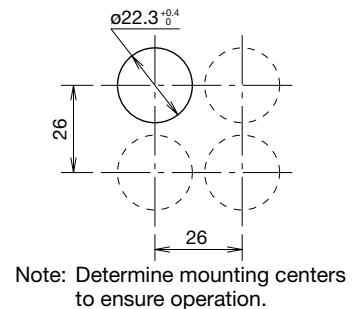
Terminal Arrangement (Bottom View)



PC Board Layout (Bottom View)


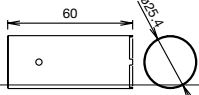

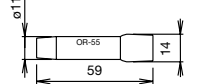

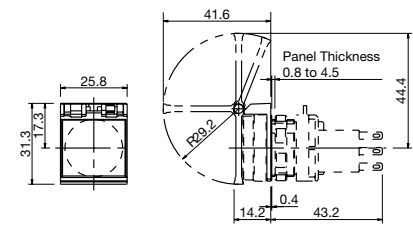

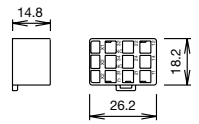

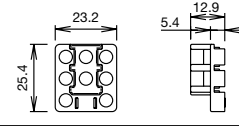

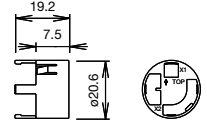

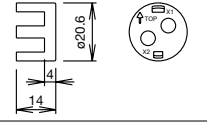

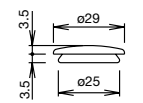

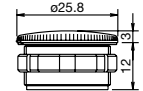






Panel Cut-out
















All dimensions in mm.

ø22 LW Series Accessories and Replacement Parts

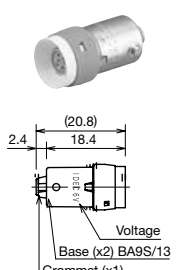
| Accessories | | | | | | |
|---|--|--|---------------------|--|--|--|
| Shape | Material | Part No. | Package Quantity | Dimensions (mm) | | |
|  | Nickel-plated brass | LW9Z-T1 | 1 | <ul style="list-style-type: none"> Used to tighten the locking ring when installing the LW switch onto a panel. Tightening torque: 1.2 N·m |  | |
|  | Rubber | OR-55 | 1 | <ul style="list-style-type: none"> Used to install and remove LED lamps. |  | |
|  | Spring Return Maintained | Guard (polyarylate) Base (polyacetal) | LW9Z-K1 LW9Z-K11 | 1 1 | <ul style="list-style-type: none"> Used to protect flush pushbuttons and illuminated pushbuttons from inadvertent operation. Degree of protection: IP65. |  |
| Note: Determine mounting centers to ensure easy operation. | | | | | | |
|  | Plastic (translucent) | LW-VL2 | 1 | <ul style="list-style-type: none"> For units with removable contacts only. |  | |
|  | Plastic (black) | LW-VL2M | 1 | <ul style="list-style-type: none"> For units with removable contacts only. |  | |
|  | Plastic (translucent) | LW-PVL | 1 | <ul style="list-style-type: none"> For unibody pilot lights only. |  | |
|  | Plastic (translucent) | LW-PVLM | 1 | <ul style="list-style-type: none"> For unibody pilot lights only. |  | |
|  | Nitril rubber (black) | OB-31PN05 | 5 | <ul style="list-style-type: none"> Degree of protection: IP65 |  | |
|  | Metal (diecast) Locking nut (plastic) | LW9Z-BM | 1 | <ul style="list-style-type: none"> Degree of protection: IP66 Panel thickness: 0.8 to 6 mm |  | |

| Maintenance Parts | | | | | | |
|---|-------------------------------|-------------|-----------|---------------|------------------|---|
| Shape | For Use On | Material | Part No. | Ordering No. | Package Quantity | Color Code |
|  | Round Flush | Polyarylate | LW9Z-L1② | LW9Z-L1②PN05 | 5 | Specify a lens color code in place of ② in the Ordering No. |
| | Round Flush with Square Bezel | | | | | |
|  | Round Extended | Polyarylate | LW9Z-L12② | LW9Z-L12②PN05 | 5 | A: amber C: clear G: green R: red S: blue Y: yellow |
|  | Square Flush | Polyarylate | LW9Z-L2② | LW9Z-L2②PN05 | 5 | |
|  | ø30mm Mushroom | AS | LW9Z-L13② | LW9Z-L13② | 1 | <ul style="list-style-type: none"> Use a clear (C) lens for pure white and white illumination. |

Maintenance Parts


| Shape | For Use On | Material | Part No. | Ordering No. | Package Quantity | Color Code | |
|---|----------------------------------|-----------------|-------------|-----------------|------------------|---|---------|
| Button  | Round Flush | Polyacetal | LW1A-B1① | LW1A-B1①PN05 | 5 | Specify a button color code in place of ① in the Ordering No. B: black G: green R: red S: blue W: white Y: yellow | |
| | Round Flush with Square Bezel | | | | | | |
| Button  | Extended | Polyacetal | LW1A-B2① | LW1A-B2①PN05 | 5 | | |
| | Round Extended with Square Bezel | | | | | | |
| Button  | Square Flush | Polyacetal | LW2A-B1① | LW2A-B1①PN05 | 5 | | |
| Button  | Square Extended | Polyacetal | LW2A-B2① | LW2A-B2①PN05 | 5 | | |
| Button  | ø30mm Mushroom | AS | LW1A-B3① | LW1A-B3① | 1 | | |
| Marking Plate  | Round | Acryl | LW9Z-P1W | LW9Z-P1WPN05 | 5 | | • White |
| | Round with Square Bezel | | | | | | |
| Marking Plate  | Square | Acryl | LW9Z-P2W | LW9Z-P2WPN05 | 5 | | |
| Marking Plate  | Round Extended | Acryl | LW9Z-P12W | LW9Z-P12WPN05 | 5 | | |
| Marking Plate  | Mushroom | Acryl | ALW3B | ALW3BPN05 | 5 | | |
| Knob  | Illuminated Selector | Plastic | LW1A-F② | LW1A-F② | 1 | A (amber), G (green), R (red), S (blue), W (white), Y (yellow) | |
| Locking Ring  | All LW units | Plastic | LW9Z-LN | LW9Z-LNPN05 | 5 | • Black | |
| Anti-rotation Ring  | Selector Switch | Stainless Steel | LW9Z-L | LW9Z-LPN10 | 10 | | |
| Spare Key  | Key Selector Switch | Metal | KG9Z-SK-231 | KG9Z-SK-231PN02 | 2 | | |

LED Lamps

| Dimensions | Operating Voltage | Current Draw | | Part No. | Ordering No. | Illumination Color Code | Package Quantity | Base |
|---|-------------------|--------------|-------------------------------------|----------|--------------|---|------------------|---------|
| | | AC | DC | | | | | |
|  | 6V AC/DC ±10% | 8 mA | 7 mA (A, R, W) 5.5 mA (G, PW, S) | LSTD-6② | LSTD-6② | Specify a color code in place of ② in the Ordering No. A: amber G: green PW: pure white R: red S: blue W: white | 1 | BA9S/13 |
| | | | | | LSTD-6②PN10 | | 10 | |
| | 12V AC/DC ±10% | 11 mA | 10 mA | LSTD-1② | LSTD-1② | Use a pure white (PW) LED lamp with (Y) lens. | 1 | |
| | | | | | LSTD-1②PN10 | | 10 | |
| | 24V AC/DC ±10% | 11 mA | 10 mA | LSTD-2② | LSTD-2② | Use a pure white (PW) LED lamp with (Y) lens. | 1 | |
| | | | | | LSTD-2②PN10 | | 10 | |

ø22 LW Series Accessories and Replacement Parts

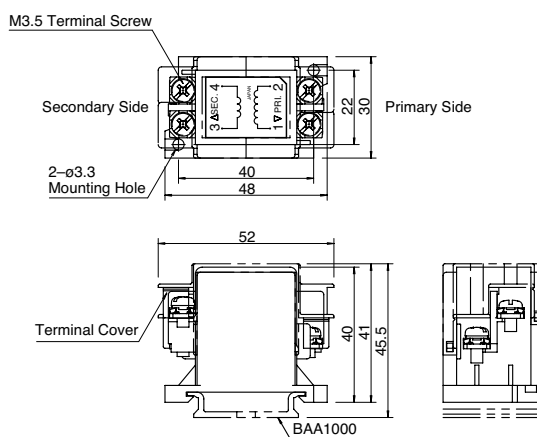
Transformer

| Shape | Primary Voltage | Secondary Voltage | Part No. | Applicable Load |
|---|-----------------|-------------------|----------|---|
|  | 100/110V AC | 5.5V AC, 1W | TWR516 | LSTD-6 LED lamp (6V AC/DC) or LS-6 incandescent lamp (6V AC/DC, 1W) |
| | 115/120V AC | | TWR5126 | |
| | 200/220V AC | | TWR526 | |
| | 230/240V AC | | TWR5246 | |
| | 380V AC | | TWR5386 | |
| | 400/440V AC | | TWR546 | |
| | 480V AC | | TWR5486 | |

Specifications

| | |
|--------------------------|---|
| Operating Voltage | 100/110V AC, 115/120V AC, 200/220V AC, 230/240V AC, 380V AC, 400/440V AC, 480V AC (50/60Hz) |
| Current Draw | 2.4 VA |
| Rated Insulation Voltage | 600V |
| Insulation Resistance | 100 MΩ minimum (500V DC megger) |
| Operating Temperature | -30 to +60°C (no freezing) |
| Storage Temperature | -40 to +80°C (no freezing) |
| Operating Humidity | 35 to 85% RH (no condensation) |
| Vibration Resistance | Damage Limits: 30 Hz, amplitude 1.5 mm Operating extremes: 5 to 55 Hz, amplitude 0.5 mm |
| Shock Resistance | Damage limits, Operating Extremes: 1,000 m/s ² |
| Dielectric Strength | 2,500V AC, 1 minute |
| Terminal Screw | M3.5 |
| Applicable Wire | 2 mm ² maximum, 2 wires maximum |
| Weight (approx.) | 87g |

Dimensions

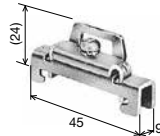


Accessories

DIN Rail

| Part No. | Ordering No. | Length | Weight (approx.) | Material | Package Quantity |
|----------|--------------|---------|------------------|----------|------------------|
| BAA1000 | BAA1000PN10 | 1000 mm | 200g | Aluminum | 10 |
| BAP1000 | BAP1000PN10 | 1000 mm | 320g | Steel | 10 |

End Clip

| Part No. | Ordering No. | Applicable DIN Rail | Weight (approx.) | Material | Package Quantity | Dimensions |
|----------|--------------|---------------------|------------------|------------------------|------------------|---|
| BNL6 | BNL6PN10 | BAA1000 BAP1000 | 15g | Steel (Zinc-plated) | 10 |  |

Safety Precautions

- Turn off the power to the LW 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. Solder correctly according to the instructions on “Wiring” and “Notes on Terminal Cover” on page 28. Tighten the M3 terminal screws to a torque of 0.6 to 1.0 N·m. Failure to tighten terminal screws may cause overheating and fire.

Instructions

Panel Mounting

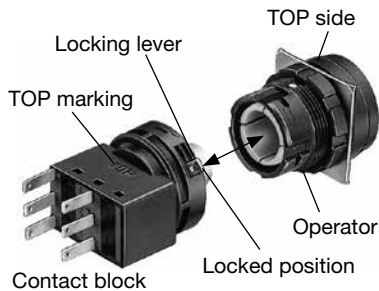
Remove the contact block from the operator. Insert the operator into the panel cut-out from the front, then install the contact block.

Removing the Contact Block

Turn the locking lever on the contact block in the direction opposite to the arrow on the housing. Then the contact can be removed.

Installing the Contact Block

Insert the contact block, with the TOP markings on the contact block and the operator placed in the same direction. Then lock the units, turning the locking lever in the direction of the arrow.

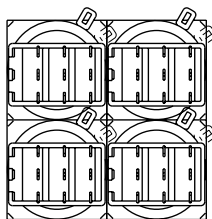


Notes on Mounting

Use the optional ring wrench (LW9Z-T1) to mount the operator onto the panel. Tightening torque should not exceed 1.2 N·m. Do not use pliers. Excessive tightening will damage the locking ring.

Collective Mounting

As the locking lever can be turned easily from the rear of the units using a screwdriver, the contact blocks can be removed even when mounted collectively.



Replacement of Lens and Marking Plate

Removing

1. Remove the operator (lens, marking plate, and lens holder) by inserting a screwdriver into the recess of the lens through the bezel.

[Removing the Operator]



2. Remove the marking plate by pushing the lens from the rear to disengage the latches between the lens and the lens holder, using the screwdriver as shown below.

[Removing the lens]



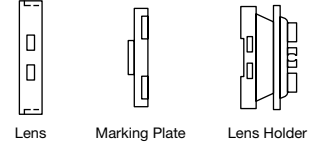
Note: The translucent filter in the lens holder cannot be removed because the filter is sealed to make the unit waterproof.

Installing

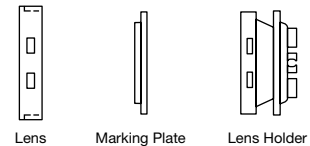
For round lens, place the marking plate on the lens holder with the anti-rotation projection engaged and press the lens onto the lens holder to engage the latches. For square lens, insert the marking plate into the lens, and press the lens onto the holder to engage the latches.

Note: Make sure of correct orientation of the marking plate.

[Round Lens]



[Square Lens]



Marking Plate and Films

For LW series illuminated pushbuttons and pilot lights, legends and symbols can be engraved on the marking plates, or printed marking film can be inserted under the lens for labelling purposes.

Marking Plate and Marking Film Size

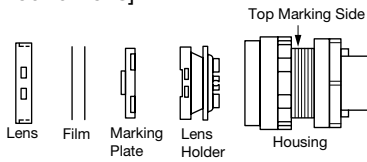
| Lens | Round Lens | Square Lens |
|-------------------------|--|-------------|
| Built-in Marking Plate | | |
| | <ul style="list-style-type: none"> • Engraving must be made on the engraving area within 0.5mm deep. • The marking plate is made of white acrylic resin. | |
| Applicable Marking Film | | |
| | <ul style="list-style-type: none"> • Two 0.1mm-thick films or one 0.2mm-thick film can be installed in the lens. • Marking film is not included. • Recommended marking film: Polyester film | |

ø22 LW Series Instructions

Instructions

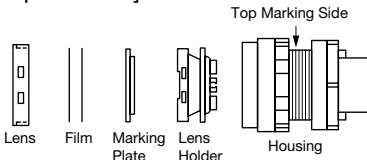
Insertion Order of Marking Plate and Film

[Round Lens]



Note: Film is not included

[Square Lens]



Note: Film is not included

Make sure of correct orientation of the marking plate.

Replacement of 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.

How to Remove

To remove, slip the lamp holder tool onto the lamp head. Then push slightly, and turn the lamp holder tool counterclockwise.

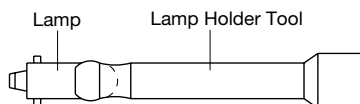


Lamp Holder Tool
OR-55

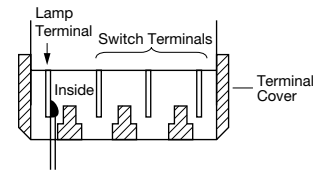
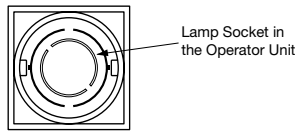


How to Install

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



2. Insert the pins on the lamp base into the grooves in the lamp socket. Insert the lamp and turn it clockwise.



[Screw Terminal]

Terminal cover must be installed on the LW series before wiring.

Note 1: After wiring, terminal covers cannot be installed.

Note 2: When terminal covers are installed, do not use round crimping terminals.

(Wire the terminal by using fork terminals or lead wires directly.)

Wiring

1. Solder the terminals within 20W/5 sec or 260°C/3 sec without exerting external force to the terminals. While soldering, do not touch the soldering iron to the housing. While wiring, prevent tension from being applied to the terminals. Do not bend or raise the terminals, nor exert excessive force to terminals.
2. Use non-corrosive liquid flux.
3. For tab terminals, Positive Lock Connectors and Easy Lock Connectors can be used.
4. Tighten the terminal screw of the screw terminal type to a torque of 0.6 to 1.0 N·m.

Notes on Terminal Cover

[Solder/Tab Terminal]

Insert the terminal cover into the contact block with the TOP markings on the contact block and the terminal cover in the same direction.

Note: When wiring, insert the lead wires into the terminal cover holes before soldering.



Notes on Wiring

When installing a terminal cover onto the solder/tab terminal contact block, solder the inside of lamp terminal (toward the switch terminals) and wire.

Single Board Mounting



Mounting the LW series unit on a single PC board offers the following features.

1. Reduced installation labor, easy wiring, space saving, and standardization.
2. Since the contact blocks on the PC board can be removed easily using a locking lever, LW series is easy to maintain.
3. Because the LW series requires no studs for fastening the unit to a PC board, special preparation of operation panel is not needed.
4. For details on single board mounting, contact IDEC.

Specifications and other descriptions in this brochure are subject to change without notice.



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