

### LW Silhouette Series

Bezel projects only 2mm from front of panel!

**Key features:**

- PC board mount, solder or screw terminals available.
- Round metallic or plastic bezels are available.
- Collective mounting saves space.
- Pushbuttons, pilot lights, illuminated pushbuttons, selector switches, key selector switches, and illuminated selector switches.
- Square pushbuttons also available with switchguards.
- Key selector switches with high-security lock mechanism.
- Separate contacts with a locking lever enable easy installation even when mounted collectively.
- Gold (gold-clad silver) or silver contacts.
- Degree of protection: IP65 (IEC 60529)
- UL recognized and CSA certified. EN compliant



### Specifications

|   |   |   |  |
|---|---|---|--|
| <b>General Specifications</b>               | <b>Operating Temperature</b>                | -25 to +60°C (no freezing), Illuminated units: -25 to +50°C |  |
|   | <b>Storage Temperature</b>                  | -40 to +80°   |  |
|   | <b>Operating Humidity</b>                   | 45 to 85% RH (no condensation)                              |  |
|   | <b>Contact Resistance</b>                   | 50 mΩ maximum (initial value)                               |  |
|   | <b>Insulation Resistance</b>                | 100 MΩ minimum (500V DC megger)                             |  |
|   | <b>Dielectric Strength</b>                  | <b>Switch Unit</b>  | Between live part and ground: 2,500V AC, 1 minute<br>Between terminals of different poles: 2,500V AC, 1 minute<br>Between terminals of the same poles: 1,000V AC, 1 minute |
|   |   | <b>Illumination Unit</b>                                    | Between live part and ground: 2,500V AC, 1 minute  |
|   | <b>Vibration Resistance</b>                 | Operating extremes: 5 to 55 Hz, amplitude 0.5 mm            |  |
|   | <b>Shock Resistance</b>                     | Damage limits: 1,000 m/s <sup>2</sup> (100G)                |  |
|   |   | Operating extremes: 100 m/s <sup>2</sup> (10G)              |  |
|   | <b>Mechanical Life (minimum operations)</b> | Momentary: 1,000,000  |  |
|   |   | Maintained: 500,000   |  |
|   |   | Selector switches: 250,000                                  |  |
|   |   | Key selector switches: 100,000                              |  |
|   |   | Illuminated selector switches: 250,000                      |  |
| <b>Electrical Life (minimum operations)</b> | Momentary: 100,000 <sup>1</sup>             |   |  |
|   | Maintained: 100,000 <sup>2</sup>            |   |  |
|   | Selector switches: 100,000 <sup>2</sup>     |   |  |
|   | Key selector switches: 100,000 <sup>2</sup> |   |  |
| <b>Degree of Protection</b>                 | IP65 (IEC 60529)                            |   |  |
|   |   |   |  |
| <b>Terminal Style</b>                       | Solder/tab terminal #110                    |   |  |
|   | PC board terminal                           |   |  |
|   | Screw terminal                              |   |  |

1. Switching frequency 1,800 operations/hour.  
2. Switching frequency 900 operations/hour.

Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

Terminal Blocks

Circuit Breakers

|                         |                 |   |                   |                       |        |      |      |
|-------------------------|-----------------|---|-------------------|-----------------------|--------|------|------|
| Contact Ratings         | Gold Contacts   | <b>Maximum Voltage</b>                    |                   | 250V AC/DC            |        |      |      |
|                         |                 | <b>Thermal Current</b>                    |                   | 3A                    |        |      |      |
|                         |                 | <b>Operating Voltage</b>                  |                   | 125V AC               | 30V DC |      |      |
|                         |                 | <b>Operating Current (resistive load)</b> |                   | 0.1A                  | 0.1A   |      |      |
|                         |                 | <b>Contact Material</b>                   |                   | Gold-clad silver      |        |      |      |
|                         | Silver Contacts | <b>Operating Voltage</b>                  |                   | 30V                   | 125V   | 250V |      |
|                         |                 | <b>Operating Current</b>                  | <b>AC 50/60Hz</b> | <b>Resistive Load</b> | –      | 3A   | 2A   |
|                         |                 |   |                   | <b>Inductive Load</b> | –      | 2A   | 1.5A |
|                         |                 |   | <b>DC</b>         | <b>Resistive Load</b> | 2A     | 0.4A | –    |
|                         |                 |   |                   | <b>Inductive Load</b> | 1A     | 0.2A | –    |
| <b>Thermal Current</b>  |                 | 5A  |                   |                       |        |      |      |
| <b>Contact Material</b> |                 | Silver                                    |                   |                       |        |      |      |



1. AC inductive load: PF = 0.6 to 0.7  
 2. DC inductive load: L/R = 7 ms max.  
 3. Minimum applicable load (reference value): 5V AC/DC, 1mA

**LED Lamp Ratings (LSTD Type)**

| Model No.              | LSTD-6②  | LSTD-1②                         | LSTD-2②                                     | LSTD-H2②    | LSTD-M4②    |
|------------------------|--|---------------------------------|---|-------------|-------------|
| Lamp Base              | BA9S/13  |                                 |   |             |             |
| Rated Voltage          | 6V AC/DC   | 12V AC/DC                       | 24V AC/DC                                   | 120V AC     | 240V AC     |
| Voltage Range          | 6V AC/DC ±10%  | 12V AC/DC ±10%                  | 24V AC/DC ±10%                              | 120V AC ±5% | 240V AC ±5% |
| Current Draw           | AC   | A, R, W, Y: 17mA<br>G, S: 8mA   | 11mA  | 11mA        | 10mA        |
|                        | DC   | A, R, W, Y: 14mA<br>G, S: 5.5mA | 10mA  | 10mA        | –           |
| Color Code             | A (amber), G (green), R (red), S (blue), W (white), Y (yellow)   |                                 |   |             |             |
| Lamp Base Color        | Same as illumination color   |                                 |   |             |             |
| Voltage Marking        | Die stamped on the base  |                                 |   |             |             |
| Life (reference value) | Approx. 50,000 hours<br>(The luminance reduces to 50% the initial intensity when used on complete DC.) |                                 |   |             |             |
| Internal Circuit       | A, R, W  |                                 | A, R, W                                     |             |             |
|                        |  |                                 |   |             |             |
|                        | G, S   |                                 | G, S  |             |             |
|                        |  |                                 | LED Chip<br>Protection Diode<br>Zener Diode |             |             |

In place of ②, specify the Lens/LED Color Code.

Switches & Pilot Lights

Display Lights

Relays & Sockets


Timers

Terminal Blocks

Circuit Breakers

**Part Numbers**

**Non-illuminated Round Pushbuttons with Metal Bezel**

| Shape  | Operation  | Contact Material | Contact | Part Numbers        |                   |                |
|--|------------|------------------|---------|---------------------|-------------------|----------------|
|  |            |                  |         | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| Round Flush<br>     | Momentary  | Gold             | SPDT    | LW6MB-M1C1LⓈ        | LW6MB-M1C1VLⓈ     | —              |
|  |            |                  | DPDT    | LW6MB-M1C2LⓈ        | LW6MB-M1C2VLⓈ     | LW6MB-M1C2MLⓈ  |
|  |            |                  | 3PDT    | LW6MB-M1C3LⓈ        | LW6MB-M1C3VLⓈ     | —              |
|  |            | Silver           | SPDT    | LW6MB-M1C5LⓈ        | —                 | —              |
|  |            |                  | DPDT    | LW6MB-M1C6LⓈ        | —                 | LW6MB-M1C6MLⓈ  |
|  |            |                  | 3PDT    | LW6MB-M1C7LⓈ        | —                 | —              |
|  | Maintained | Gold             | SPDT    | LW6MB-A1C1LⓈ        | LW6MB-A1C1VLⓈ     | —              |
|  |            |                  | DPDT    | LW6MB-A1C2LⓈ        | LW6MB-A1C2VLⓈ     | LW6MB-A1C2MLⓈ  |
|  |            |                  | 3PDT    | LW6MB-A1C3LⓈ        | LW6MB-A1C3VLⓈ     | —              |
|  |            | Silver           | SPDT    | LW6MB-A1C5LⓈ        | —                 | —              |
|  |            |                  | DPDT    | LW6MB-A1C6LⓈ        | —                 | LW6MB-A1C6MLⓈ  |
|  |            |                  | 3PDT    | LW6MB-A1C7LⓈ        | —                 | —              |
| Round Extended<br> | Momentary  | Gold             | SPDT    | LW6MB-M2C1LⓈ        | LW6MB-M2C1VLⓈ     | —              |
|  |            |                  | DPDT    | LW6MB-M2C2LⓈ        | LW6MB-M2C2VLⓈ     | LW6MB-M2C2MLⓈ  |
|  |            |                  | 3PDT    | LW6MB-M2C3LⓈ        | LW6MB-M2C3VLⓈ     | —              |
|  |            | Silver           | SPDT    | LW6MB-M2C5LⓈ        | —                 | —              |
|  |            |                  | DPDT    | LW6MB-M2C6LⓈ        | —                 | LW6MB-M2C6MLⓈ  |
|  |            |                  | 3PDT    | LW6MB-M2C7LⓈ        | —                 | —              |
|  | Maintained | Gold             | SPDT    | LW6MB-A2C1LⓈ        | LW6MB-A2C1VLⓈ     | —              |
|  |            |                  | DPDT    | LW6MB-A2C2LⓈ        | LW6MB-A2C2VLⓈ     | LW6MB-A2C2MLⓈ  |
|  |            |                  | 3PDT    | LW6MB-A2C3LⓈ        | LW6MB-A2C3VLⓈ     | —              |
|  |            | Silver           | SPDT    | LW6MB-A2C5LⓈ        | —                 | —              |
|  |            |                  | DPDT    | LW6MB-A2C6LⓈ        | —                 | LW6MB-A2C6MLⓈ  |
|  |            |                  | 3PDT    | LW6MB-A2C7LⓈ        | —                 | —              |

- 1. In place of Ⓢ insert button color from table
- 2. For replacement part numbers see page 666.

**① Button Color Code**

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

Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

Terminal Blocks

Circuit Breakers

Non-illuminated Round / Square Pushbuttons with Black Plastic Bezel

| Shape  | Operation  | Contact Material | Contact | Part Numbers        |                   |                |
|--|------------|------------------|---------|---------------------|-------------------|----------------|
|  |            |                  |         | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| Round Flush<br>               | Momentary  | Gold             | SPDT    | LW6B-M1C1LⓈ         | LW6B-M1C1VLⓈ      | –              |
|  |            |                  | DPDT    | LW6B-M1C2LⓈ         | LW6B-M1C2VLⓈ      | LW6B-M1C2MLⓈ   |
|  |            |                  | 3PDT    | LW6B-M1C3LⓈ         | LW6B-M1C3VLⓈ      | –              |
|  |            | Silver           | SPDT    | LW6B-M1C5LⓈ         | –                 | –              |
|  |            |                  | DPDT    | LW6B-M1C6LⓈ         | –                 | LW6B-M1C6MLⓈ   |
|  |            |                  | 3PDT    | LW6B-M1C7LⓈ         | –                 | –              |
|  | Maintained | Gold             | SPDT    | LW6B-A1C1LⓈ         | LW6B-A1C1VLⓈ      | –              |
|  |            |                  | DPDT    | LW6B-A1C2LⓈ         | LW6B-A1C2VLⓈ      | LW6B-A1C2MLⓈ   |
|  |            |                  | 3PDT    | LW6B-A1C3LⓈ         | LW6B-A1C3VLⓈ      | –              |
|  |            | Silver           | SPDT    | LW6B-A1C5LⓈ         | –                 | –              |
|  |            |                  | DPDT    | LW6B-A1C6LⓈ         | –                 | LW6B-A1C6MLⓈ   |
|  |            |                  | 3PDT    | LW6B-A1C7LⓈ         | –                 | –              |
| Round Extended<br>            | Momentary  | Gold             | SPDT    | LW6B-M2C1LⓈ         | LW6B-M2C1VLⓈ      | –              |
|  |            |                  | DPDT    | LW6B-M2C2LⓈ         | LW6B-M2C2VLⓈ      | LW6B-M2C2MLⓈ   |
|  |            |                  | 3PDT    | LW6B-M2C3LⓈ         | LW6B-M2C3VLⓈ      | –              |
|  |            | Silver           | SPDT    | LW6B-M2C5LⓈ         | –                 | –              |
|  |            |                  | DPDT    | LW6B-M2C6LⓈ         | –                 | LW6B-M2C6MLⓈ   |
|  |            |                  | 3PDT    | LW6B-M2C7LⓈ         | –                 | –              |
|  | Maintained | Gold             | SPDT    | LW6B-A2C1LⓈ         | LW6B-A2C1VLⓈ      | –              |
|  |            |                  | DPDT    | LW6B-A2C2LⓈ         | LW6B-A2C2VLⓈ      | LW6B-A2C2MLⓈ   |
|  |            |                  | 3PDT    | LW6B-A2C3LⓈ         | LW6B-A2C3VLⓈ      | –              |
|  |            | Silver           | SPDT    | LW6B-A2C5LⓈ         | –                 | –              |
|  |            |                  | DPDT    | LW6B-A2C6LⓈ         | –                 | LW6B-A2C6MLⓈ   |
|  |            |                  | 3PDT    | LW6B-A2C7LⓈ         | –                 | –              |
| Square Flush<br>            | Momentary  | Gold             | SPDT    | LW7B-M1C1LⓈ         | LW7B-M1C1VLⓈ      | –              |
|  |            |                  | DPDT    | LW7B-M1C2LⓈ         | LW7B-M1C2VLⓈ      | LW7B-M1C2MLⓈ   |
|  |            |                  | 3PDT    | LW7B-M1C3LⓈ         | LW7B-M1C3VLⓈ      | –              |
|  |            | Silver           | SPDT    | LW7B-M1C5LⓈ         | –                 | –              |
|  |            |                  | DPDT    | LW7B-M1C6LⓈ         | –                 | LW7B-M1C6MLⓈ   |
|  |            |                  | 3PDT    | LW7B-M1C7LⓈ         | –                 | –              |
|  | Maintained | Gold             | SPDT    | LW7B-A1C1LⓈ         | LW7B-A1C1VLⓈ      | –              |
|  |            |                  | DPDT    | LW7B-A1C2LⓈ         | LW7B-A1C2VLⓈ      | LW7B-A1C2MLⓈ   |
|  |            |                  | 3PDT    | LW7B-A1C3LⓈ         | LW7B-A1C3VLⓈ      | –              |
|  |            | Silver           | SPDT    | LW7B-A1C5LⓈ         | –                 | –              |
|  |            |                  | DPDT    | LW7B-A1C6LⓈ         | –                 | LW7B-A1C6MLⓈ   |
|  |            |                  | 3PDT    | LW7B-A1C7LⓈ         | –                 | –              |
| Square Flush with Guard<br> | Momentary  | Gold             | SPDT    | LW7GB-M1C1LⓈ        | LW7GB-M1C1VLⓈ     | –              |
|  |            |                  | DPDT    | LW7GB-M1C2LⓈ        | LW7GB-M1C2VLⓈ     | LW7GB-M1C2MLⓈ  |
|  |            |                  | 3PDT    | LW7GB-M1C3LⓈ        | LW7GB-M1C3VLⓈ     | –              |
|  |            | Silver           | SPDT    | LW7GB-M1C5LⓈ        | –                 | –              |
|  |            |                  | DPDT    | LW7GB-M1C6LⓈ        | –                 | LW7GB-M1C6MLⓈ  |
|  |            |                  | 3PDT    | LW7GB-M1C7LⓈ        | –                 | –              |
|  | Maintained | Gold             | SPDT    | LW7GB-A1C1LⓈ        | LW7GB-A1C1VLⓈ     | –              |
|  |            |                  | DPDT    | LW7GB-A1C2LⓈ        | LW7GB-A1C2VLⓈ     | LW7GB-A1C2MLⓈ  |
|  |            |                  | 3PDT    | LW7GB-A1C3LⓈ        | LW7GB-A1C3VLⓈ     | –              |
|  |            | Silver           | SPDT    | LW7GB-A1C5LⓈ        | –                 | –              |
|  |            |                  | DPDT    | LW7GB-A1C6LⓈ        | –                 | LW7GB-A1C6MLⓈ  |
|  |            |                  | 3PDT    | LW7GB-A1C7LⓈ        | –                 | –              |

Ⓢ Button Color Code

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



- In place of Ⓢ insert button color from table
- For replacement part numbers see page 666.

Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

Terminal Blocks

Circuit Breakers

Switches &amp; Pilot Lights

Display Lights



Relays &amp; Sockets

Timers





Terminal Blocks

Circuit Breakers

**Round / Square Pilot Lights with Metal Bezel**

| Shape   | Lamp | Part Numbers                       |                                   |                               |
|---|------|------------------------------------|-----------------------------------|-------------------------------|
|   |      | Solder/Tab Terminal (Unibody Type) | PC Board Terminal (Separate Type) | Screw Terminal (Unibody Type) |
| Round Flush<br>    | LED  | LW6MP-1③②                          | LW6MP-1C0③V②                      | LW6MP-1③M②                    |
| Round Extended<br> | LED  | LW6MP-2③②                          | LW6MP-2C0③V②                      | LW6MP-2③M②                    |

**Round / Square Pilot Lights with Black Plastic Bezel**

| Shape  | Lamp | Part Numbers                       |                                   |                               |
|--|------|------------------------------------|-----------------------------------|-------------------------------|
|  |      | Solder/Tab Terminal (Unibody Type) | PC Board Terminal (Separate Type) | Screw Terminal (Unibody Type) |
| Round Flush<br>       | LED  | LW6P-1③②                           | LW6P-1C0③V②                       | LW6P-1③M②                     |
| Round Extended<br>  | LED  | LW6P-2③②                           | LW6P-2C0③V②                       | LW6P-2③M②                     |
| Square Flush<br>    | LED  | LW7P-1③②                           | LW7P-1C0③V②                       | LW7P-1③M②                     |
| Square Extended<br> | LED  | LW7P-2③②                           | LW7P-2C0③V②                       | LW7P-2③M②                     |



Yellow pilot light comes with white LED.

**② Color Code**

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

**③ Voltage Code**

| Voltage   | Code |
|-----------|------|
| 6V AC/DC  | 2    |
| 12V AC/DC | 3    |
| 24V AC/DC | 4    |
| 120V AC   | 5    |
| 240V AC   | 6    |



- Every pilot light contains an LED lamp (LSTD) of the specified color and voltage.
- For replacement part numbers see page 666.

**Illuminated Round Pushbuttons with Metal Bezel**

| Shape  | Lamp | Operation  | Contact Material | Contact | Part Numbers        |                   |                |
|--|------|------------|------------------|---------|---------------------|-------------------|----------------|
|  |      |            |                  |         | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| <br>Round Flush     | LED  | Momentary  | Gold             | SPDT    | LW6ML-M1C1③②        | LW6ML-M1C1③V②     | –              |
|  |      |            |                  | DPDT    | LW6ML-M1C2③②        | LW6ML-M1C2③V②     | LW6ML-M1C2③M②  |
|  |      |            |                  | 3PDT    | LW6ML-M1C3③②        | LW6ML-M1C3③V②     | –              |
|  |      |            | Silver           | SPDT    | LW6ML-M1C5③②        | –                 | –              |
|  |      |            |                  | DPDT    | LW6ML-M1C6③②        | –                 | LW6ML-M1C6③M②  |
|  |      |            |                  | 3PDT    | LW6ML-M1C7③②        | –                 | –              |
|  |      | Maintained | Gold             | SPDT    | LW6ML-A1C1③②        | LW6ML-A1C1③V②     | –              |
|  |      |            |                  | DPDT    | LW6ML-A1C2③②        | LW6ML-A1C2③V②     | LW6ML-A1C2③M②  |
|  |      |            |                  | 3PDT    | LW6ML-A1C3③②        | LW6ML-A1C3③V②     | –              |
|  |      |            | Silver           | SPDT    | LW6ML-A1C5③②        | –                 | –              |
|  |      |            |                  | DPDT    | LW6ML-A1C6③②        | –                 | LW6ML-A1C6③M②  |
|  |      |            |                  | 3PDT    | LW6ML-A1C7③②        | –                 | –              |
| <br>Round Extended | LED  | Momentary  | Gold             | SPDT    | LW6ML-M2C1③②        | LW6ML-M2C1③V②     | –              |
|  |      |            |                  | DPDT    | LW6ML-M2C2③②        | LW6ML-M2C2③V②     | LW6ML-M2C2③M②  |
|  |      |            |                  | 3PDT    | LW6ML-M2C3③②        | LW6ML-M2C3③V②     | –              |
|  |      |            | Silver           | SPDT    | LW6ML-M2C5③②        | –                 | –              |
|  |      |            |                  | DPDT    | LW6ML-M2C6③②        | –                 | LW6ML-M2C6③M②  |
|  |      |            |                  | 3PDT    | LW6ML-M2C7③②        | –                 | –              |
|  |      | Maintained | Gold             | SPDT    | LW6ML-A2C1③②        | LW6ML-A2C1③V②     | –              |
|  |      |            |                  | DPDT    | LW6ML-A2C2③②        | LW6ML-A2C2③V②     | LW6ML-A2C2③M②  |
|  |      |            |                  | 3PDT    | LW6ML-A2C3③②        | LW6ML-A2C3③V②     | –              |
|  |      |            | Silver           | SPDT    | LW6ML-A2C5③②        | –                 | –              |
|  |      |            |                  | DPDT    | LW6ML-A2C6③②        | –                 | LW6ML-A2C6③M②  |
|  |      |            |                  | 3PDT    | LW6ML-A2C7③②        | –                 | –              |

② Color Code

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

③ Voltage Code

| Voltage   | Code |
|-----------|------|
| 6V AC/DC  | 2    |
| 12V AC/DC | 3    |
| 24V AC/DC | 4    |
| 120V AC   | 5    |
| 240V AC   | 6    |

- In place of ② insert Lens/LED color code from table.
- In place of ③ insert Voltage code from table.
- Every illuminated pushbutton contains an LED lamp (LSTD) of the specified color and voltage.
- For replacement part numbers see page 666.

**Illuminated Round / Square Pushbuttons with Black Plastic Bezel**

| Shape  | Lamp | Operation  | Contact Material | Contact | Part Numbers        |                   |                |
|--|------|------------|------------------|---------|---------------------|-------------------|----------------|
|  |      |            |                  |         | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| <br>Round Flush | LED  | Momentary  | Gold             | SPDT    | LW6L-M1C1③②         | LW6L-M1C1③V②      | –              |
|  |      |            |                  | DPDT    | LW6L-M1C2③②         | LW6L-M1C2③V②      | LW6L-M1C2③M②   |
|  |      |            |                  | 3PDT    | LW6L-M1C3③②         | LW6L-M1C3③V②      | –              |
|  |      |            | Silver           | SPDT    | LW6L-M1C5③②         | –                 | –              |
|  |      |            |                  | DPDT    | LW6L-M1C6③②         | –                 | LW6L-M1C6③M②   |
|  |      |            |                  | 3PDT    | LW6L-M1C7③②         | –                 | –              |
|  |      | Maintained | Gold             | SPDT    | LW6L-A1C1③②         | LW6L-A1C1③V②      | –              |
|  |      |            |                  | DPDT    | LW6L-A1C2③②         | LW6L-A1C2③V②      | LW6L-A1C2③M②   |
|  |      |            |                  | 3PDT    | LW6L-A1C3③②         | LW6L-A1C3③V②      | –              |
|  |      |            | Silver           | SPDT    | LW6L-A1C5③②         | –                 | –              |
|  |      |            |                  | DPDT    | LW6L-A1C6③②         | –                 | LW6L-A1C6③M②   |
|  |      |            |                  | 3PDT    | LW6L-A1C7③②         | –                 | –              |

 Yellow pushbutton comes with white LED.

Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

Terminal Blocks

Circuit Breakers

Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

Terminal Blocks

Circuit Breakers

| Shape   | Lamp | Operation  | Contact Material | Contact | Part Numbers        |                   |                |
|---|------|------------|------------------|---------|---------------------|-------------------|----------------|
|   |      |            |                  |         | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| Round Extended<br>                   | LED  | Momentary  | Gold             | SPDT    | LW6L-M2C1③②         | LW6L-M2C1③V②      | —              |
|   |      |            |                  | DPDT    | LW6L-M2C2③②         | LW6L-M2C2③V②      | LW6L-M2C2③M②   |
|   |      |            |                  | 3PDT    | LW6L-M2C3③②         | LW6L-M2C3③V②      | —              |
|   |      |            | Silver           | SPDT    | LW6L-M2C5③②         | —                 | —              |
|   |      |            |                  | DPDT    | LW6L-M2C6③②         | —                 | LW6L-M2C6③M②   |
|   |      |            |                  | 3PDT    | LW6L-M2C7③②         | —                 | —              |
|   |      | Maintained | Gold             | SPDT    | LW6L-A2C1③②         | LW6L-A2C1③V②      | —              |
|   |      |            |                  | DPDT    | LW6L-A2C2③②         | LW6L-A2C2③V②      | LW6L-A2C2③M②   |
|   |      |            |                  | 3PDT    | LW6L-A2C3③②         | LW6L-A2C3③V②      | —              |
|   |      |            | Silver           | SPDT    | LW6L-A2C5③②         | —                 | —              |
|   |      |            |                  | DPDT    | LW6L-A2C6③②         | —                 | LW6L-A2C6③M②   |
|   |      |            |                  | 3PDT    | LW6L-A2C7③②         | —                 | —              |
| Square Flush<br>                     | LED  | Momentary  | Gold             | SPDT    | LW7L-M1C1③②         | LW7L-M1C1③V②      | —              |
|   |      |            |                  | DPDT    | LW7L-M1C2③②         | LW7L-M1C2③V②      | LW7L-M1C2③M②   |
|   |      |            |                  | 3PDT    | LW7L-M1C3③②         | LW7L-M1C3③V②      | —              |
|   |      |            | Silver           | SPDT    | LW7L-M1C5③②         | —                 | —              |
|   |      |            |                  | DPDT    | LW7L-M1C6③②         | —                 | LW7L-M1C6③M②   |
|   |      |            |                  | 3PDT    | LW7L-M1C7③②         | —                 | —              |
|   |      | Maintained | Gold             | SPDT    | LW7L-A1C1③②         | LW7L-A1C1③V②      | —              |
|   |      |            |                  | DPDT    | LW7L-A1C2③②         | LW7L-A1C2③V②      | LW7L-A1C2③M②   |
|   |      |            |                  | 3PDT    | LW7L-A1C3③②         | LW7L-A1C3③V②      | —              |
|   |      |            | Silver           | SPDT    | LW7L-A1C5③②         | —                 | —              |
|   |      |            |                  | DPDT    | LW7L-A1C6③②         | —                 | LW7L-A1C6③M②   |
|   |      |            |                  | 3PDT    | LW7L-A1C7③②         | —                 | —              |
| Square Flush with Switch Guard<br> | LED  | Momentary  | Gold             | SPDT    | LW7GL-M1C1③②        | LW7GL-M1C1③V②     | —              |
|   |      |            |                  | DPDT    | LW7GL-M1C2③②        | LW7GL-M1C2③V②     | LW7GL-M1C2③M②  |
|   |      |            |                  | 3PDT    | LW7GL-M1C3③②        | LW7GL-M1C3③V②     | —              |
|   |      |            | Silver           | SPDT    | LW7GL-M1C5③②        | —                 | —              |
|   |      |            |                  | DPDT    | LW7GL-M1C6③②        | —                 | LW7GL-M1C6③M②  |
|   |      |            |                  | 3PDT    | LW7GL-M1C7③②        | —                 | —              |
|   |      | Maintained | Gold             | SPDT    | LW7GL-A1C1③②        | LW7GL-A1C1③V②     | —              |
|   |      |            |                  | DPDT    | LW7GL-A1C2③②        | LW7GL-A1C2③V②     | LW7GL-A1C2③M②  |
|   |      |            |                  | 3PDT    | LW7GL-A1C3③②        | LW7GL-A1C3③V②     | —              |
|   |      |            | Silver           | SPDT    | LW7GL-A1C5③②        | —                 | —              |
|   |      |            |                  | DPDT    | LW7GL-A1C6③②        | —                 | LW7GL-A1C6③M②  |
|   |      |            |                  | 3PDT    | LW7GL-A1C7③②        | —                 | —              |

② Color Code

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

③ Voltage Code

| Voltage   | Code |
|-----------|------|
| 6V AC/DC  | 2    |
| 12V AC/DC | 3    |
| 24V AC/DC | 4    |
| 120V AC   | 5    |
| 240V AC   | 6    |

















1. In place of ② insert Lens/LED color code from table.
2. In place of ③ insert Voltage code from table.
3. Every illuminated pushbutton contains an LED lamp (LSTD) of the specified color and voltage.
3. For replacement part numbers see page 666.
4. Yellow pushbutton comes with white LED.


















**Non-illuminated Round Selector Switches with Black Plastic Bezel**

| Shape  | Operatio  | Position  | Contact Material | Contact    | Part Numbers        |                   |                |
|--|---|---|------------------|------------|---------------------|-------------------|----------------|
|  |   |   |                  |            | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| <br>Round<br>(Knob Operator)    | 90°<br>2-position<br>Maintained   |    | Gold             | SPDT       | LW6S-2C1            | LW6S-2C1V         | —              |
|  |   |   |                  | DPDT       | LW6S-2C2            | LW6S-2C2V         | LW6S-2C2M      |
|  |   |   |                  | 3PDT       | LW6S-2C3            | LW6S-2C3V         | —              |
|  |   |   | Silver           | SPDT       | LW6S-2C5            | —                 | —              |
|  |   |   |                  | DPDT       | LW6S-2C6            | —                 | LW6S-2C6M      |
|  |   |   |                  | 3PDT       | LW6S-2C7            | —                 | —              |
|  | 90°<br>2-position<br>Spring Return<br>from Right                                    |    | Gold             | SPDT       | LW6S-21C1           | LW6S-21C1V        | —              |
|  |   |   |                  | DPDT       | LW6S-21C2           | LW6S-21C2V        | LW6S-21C2M     |
|  |   |   |                  | 3PDT       | LW6S-21C3           | LW6S-21C3V        | —              |
|  |   |   | Silver           | SPDT       | LW6S-21C5           | —                 | —              |
|  |   |   |                  | DPDT       | LW6S-21C6           | —                 | LW6S-21C6M     |
|  |   |   |                  | 3PDT       | LW6S-21C7           | —                 | —              |
|  | 45°<br>3-position<br>Maintained   |    | Gold             | DPDT       | LW6S-3C2            | LW6S-3C2V         | LW6S-3C2M      |
|  |   |   |                  | 3PDT       | LW6S-3C3            | LW6S-3C3V         | —              |
|  |   |   |                  | 3PDT       | LW6S-3C7            | —                 | —              |
|  |   |   | Silver           | DPDT       | LW6S-3C6            | —                 | LW6S-3C6M      |
|  |   |   |                  | 3PDT       | LW6S-3C7            | —                 | —              |
|  |   |   |                  | 3PDT       | LW6S-3C7            | —                 | —              |
|  | 45°<br>3-position<br>Spring Return<br>from Right                                    |    | Gold             | DPDT       | LW6S-31C2           | LW6S-31C2V        | LW6S-31C2M     |
|  |   |   |                  | 3PDT       | LW6S-31C3           | LW6S-31C3V        | —              |
|  |   |   |                  | 3PDT       | LW6S-31C7           | —                 | —              |
|  |   |   | Silver           | DPDT       | LW6S-31C6           | —                 | LW6S-31C6M     |
|  |   |   |                  | 3PDT       | LW6S-31C7           | —                 | —              |
|  |   |   |                  | 3PDT       | LW6S-31C7           | —                 | —              |
| 45°<br>3-position<br>Spring Return<br>from Left  |    | Gold  | DPDT             | LW6S-32C2  | LW6S-32C2V          | LW6S-32C2M        |                |
|  |   |   | 3PDT             | LW6S-32C3  | LW6S-32C3V          | —                 |                |
|  |   |   | 3PDT             | LW6S-32C7  | —                   | —                 |                |
|  |   | Silver  | DPDT             | LW6S-32C6  | —                   | LW6S-32C6M        |                |
|  |   |   | 3PDT             | LW6S-32C7  | —                   | —                 |                |
|  |   |   | 3PDT             | LW6S-32C7  | —                   | —                 |                |
| 45°<br>3-position<br>Spring Return<br>Two-way  |  | Gold  | DPDT             | LW6S-33C2  | LW6S-33C2V          | LW6S-33C2M        |                |
|  |   |   | 3PDT             | LW6S-33C3  | LW6S-33C3V          | —                 |                |
|  |   |   | 3PDT             | LW6S-33C7  | —                   | —                 |                |
|  |   | Silver  | DPDT             | LW6S-33C6  | —                   | LW6S-33C6M        |                |
|  |   |   | 3PDT             | LW6S-33C7  | —                   | —                 |                |
|  |   |   | 3PDT             | LW6S-33C7  | —                   | —                 |                |
| <br>Round<br>(Lever Operator) | 90°<br>2-position<br>Maintained   |  | Gold             | SPDT       | LW6S-2LC1           | LW6S-2LC1V        | —              |
|  |   |   |                  | DPDT       | LW6S-2LC2           | LW6S-2LC2V        | LW6S-2LC2M     |
|  |   |   |                  | 3PDT       | LW6S-2LC3           | LW6S-2LC3V        | —              |
|  |   |   | Silver           | SPDT       | LW6S-2LC5           | —                 | —              |
|  |   |   |                  | DPDT       | LW6S-2LC6           | —                 | LW6S-2LC6M     |
|  |   |   |                  | 3PDT       | LW6S-2LC7           | —                 | —              |
|  | 90°<br>2-position<br>Spring Return<br>from Right                                    |  | Gold             | SPDT       | LW6S-21LC1          | LW6S-21LC1V       | —              |
|  |   |   |                  | DPDT       | LW6S-21LC2          | LW6S-21LC2V       | LW6S-21LC2M    |
|  |   |   |                  | 3PDT       | LW6S-21LC3          | LW6S-21LC3V       | —              |
|  |   |   | Silver           | SPDT       | LW6S-21LC5          | —                 | —              |
|  |   |   |                  | DPDT       | LW6S-21LC6          | —                 | LW6S-21LC6M    |
|  |   |   |                  | 3PDT       | LW6S-21LC7          | —                 | —              |
|  | 45°<br>3-position<br>Maintained   |  | Gold             | DPDT       | LW6S-3LC2           | LW6S-3LC2V        | LW6S-3LC2M     |
|  |   |   |                  | 3PDT       | LW6S-3LC3           | LW6S-3LC3V        | —              |
|  |   |   |                  | 3PDT       | LW6S-3LC7           | —                 | —              |
|  |   |   | Silver           | DPDT       | LW6S-3LC6           | —                 | LW6S-3LC6M     |
|  |   |   |                  | 3PDT       | LW6S-3LC7           | —                 | —              |
|  |   |   |                  | 3PDT       | LW6S-3LC7           | —                 | —              |
|  | 45°<br>3-position<br>Spring Return<br>from Right                                    |  | Gold             | DPDT       | LW6S-31LC2          | LW6S-31LC2V       | LW6S-31LC2M    |
|  |   |   |                  | 3PDT       | LW6S-31LC3          | LW6S-31LC3V       | —              |
|  |   |   |                  | 3PDT       | LW6S-31LC7          | —                 | —              |
|  |   |   | Silver           | DPDT       | LW6S-31LC6          | —                 | LW6S-31LC6M    |
|  |   |   |                  | 3PDT       | LW6S-31LC7          | —                 | —              |
|  |   |   |                  | 3PDT       | LW6S-31LC7          | —                 | —              |
| 45°<br>3-position<br>Spring Return<br>from Left  |  | Gold  | DPDT             | LW6S-32LC2 | LW6S-32LC2V         | LW6S-32LC2M       |                |
|  |   |   | 3PDT             | LW6S-32LC3 | LW6S-32LC3V         | —                 |                |
|  |   |   | 3PDT             | LW6S-32LC7 | —                   | —                 |                |
|  |   | Silver  | DPDT             | LW6S-32LC6 | —                   | LW6S-32LC6M       |                |
|  |   |   | 3PDT             | LW6S-32LC7 | —                   | —                 |                |
|  |   |   | 3PDT             | LW6S-32LC7 | —                   | —                 |                |
| 45°<br>3-position<br>Spring Return<br>Two-way  |  | Gold  | DPDT             | LW6S-33LC2 | LW6S-33LC2V         | LW6S-33LC2M       |                |
|  |   |   | 3PDT             | LW6S-33LC3 | LW6S-33LC3V         | —                 |                |
|  |   |   | 3PDT             | LW6S-33LC7 | —                   | —                 |                |
|  |   | Silver  | DPDT             | LW6S-33LC6 | —                   | LW6S-33LC6M       |                |
|  |   |   | 3PDT             | LW6S-33LC7 | —                   | —                 |                |
|  |   |   | 3PDT             | LW6S-33LC7 | —                   | —                 |                |

1. For replacement part numbers see page 666.
2. For contact operation see page 676.

Non-illuminated Square Selector Switches with Black Plastic Bezel

| Shape   | Operation   | Position  | Contact Material | Contact    | Part Numbers        |                   |                |
|---|---|---|------------------|------------|---------------------|-------------------|----------------|
|   |   |   |                  |            | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| Square<br>(Knob Operator)<br>    | 90°<br>2-position<br>Maintained   |    | Gold             | SPDT       | LW7S-2C1            | LW7S-2C1V         | —              |
|   |   |   |                  | DPDT       | LW7S-2C2            | LW7S-2C2V         | LW7S-2C2M      |
|   |   |   |                  | 3PDT       | LW7S-2C3            | LW7S-2C3V         | —              |
|   |   |   | Silver           | SPDT       | LW7S-2C5            | —                 | —              |
|   |   |   |                  | DPDT       | LW7S-2C6            | —                 | LW7S-2C6M      |
|   |   |   |                  | 3PDT       | LW7S-2C7            | —                 | —              |
|   | 90°<br>2-position<br>Spring Return<br>from Right                                    |    | Gold             | SPDT       | LW7S-21C1           | LW7S-21C1V        | —              |
|   |   |   |                  | DPDT       | LW7S-21C2           | LW7S-21C2V        | LW7S-21C2M     |
|   |   |   |                  | 3PDT       | LW7S-21C3           | LW7S-21C3V        | —              |
|   |   |   | Silver           | SPDT       | LW7S-21C5           | —                 | —              |
|   |   |   |                  | DPDT       | LW7S-21C6           | —                 | LW7S-21C6M     |
|   |   |   |                  | 3PDT       | LW7S-21C7           | —                 | —              |
|   | 45°<br>3-position<br>Maintained   |    | Gold             | DPDT       | LW7S-3C2            | LW7S-3C2V         | LW7S-3C2M      |
|   |   |   |                  | 3PDT       | LW7S-3C3            | LW7S-3C3V         | —              |
|   |   |   | Silver           | DPDT       | LW7S-3C6            | —                 | LW7S-3C6M      |
|   | 45°<br>3-position<br>Spring Return<br>from Right                                    |    | Gold             | DPDT       | LW7S-31C2           | LW7S-31C2V        | LW7S-31C2M     |
|   |   |   |                  | 3PDT       | LW7S-31C3           | LW7S-31C3V        | —              |
|   |   |   | Silver           | DPDT       | LW7S-31C6           | —                 | LW7S-31C6M     |
|   | 45°<br>3-position<br>Spring Return<br>from Left                                     |    | Gold             | DPDT       | LW7S-32C2           | LW7S-32C2V        | LW7S-32C2M     |
|   |   |   |                  | 3PDT       | LW7S-32C3           | LW7S-32C3V        | —              |
|   |   |   | Silver           | DPDT       | LW7S-32C6           | —                 | LW7S-32C6M     |
| 45°<br>3-position<br>Spring Return<br>Two-way   |   | Gold  | DPDT             | LW7S-33C2  | LW7S-33C2V          | LW7S-33C2M        |                |
|   |   |   | 3PDT             | LW7S-33C3  | LW7S-33C3V          | —                 |                |
|   |   | Silver  | DPDT             | LW7S-33C6  | —                   | LW7S-33C6M        |                |
| Square<br>(Lever Operator)<br> | 90°<br>2-position<br>Maintained   |  | Gold             | SPDT       | LW7S-2LC1           | LW7S-2LC1V        | —              |
|   |   |   |                  | DPDT       | LW7S-2LC2           | LW7S-2LC2V        | LW7S-2LC2M     |
|   |   |   |                  | 3PDT       | LW7S-2LC3           | LW7S-2LC3V        | —              |
|   |   |   | Silver           | SPDT       | LW7S-2LC5           | —                 | —              |
|   |   |   |                  | DPDT       | LW7S-2LC6           | —                 | LW7S-2LC6M     |
|   |   |   |                  | 3PDT       | LW7S-2LC7           | —                 | —              |
|   | 90°<br>2-position<br>Spring Return<br>from Right                                    |  | Gold             | SPDT       | LW7S-21LC1          | LW7S-21LC1V       | —              |
|   |   |   |                  | DPDT       | LW7S-21LC2          | LW7S-21LC2V       | LW7S-21LC2M    |
|   |   |   |                  | 3PDT       | LW7S-21LC3          | LW7S-21LC3V       | —              |
|   |   |   | Silver           | SPDT       | LW7S-21LC5          | —                 | —              |
|   |   |   |                  | DPDT       | LW7S-21LC6          | —                 | LW7S-21LC6M    |
|   |   |   |                  | 3PDT       | LW7S-21LC7          | —                 | —              |
|   | 45°<br>3-position<br>Maintained   |  | Gold             | DPDT       | LW7S-3LC2           | LW7S-3LC2V        | LW7S-3LC2M     |
|   |   |   |                  | 3PDT       | LW7S-3LC3           | LW7S-3LC3V        | —              |
|   |   |   | Silver           | DPDT       | LW7S-3LC6           | —                 | LW7S-3LC6M     |
|   | 45°<br>3-position<br>Spring Return<br>from Right                                    |  | Gold             | DPDT       | LW7S-31LC2          | LW7S-31LC2V       | LW7S-31LC2M    |
|   |   |   |                  | 3PDT       | LW7S-31LC3          | LW7S-31LC3V       | —              |
|   |   |   | Silver           | DPDT       | LW7S-31LC6          | —                 | LW7S-31LC6M    |
|   | 45°<br>3-position<br>Spring Return<br>from Left                                     |  | Gold             | DPDT       | LW7S-32LC2          | LW7S-32LC2V       | LW7S-32LC2M    |
|   |   |   |                  | 3PDT       | LW7S-32LC3          | LW7S-32LC3V       | —              |
|   |   |   | Silver           | DPDT       | LW7S-32LC6          | —                 | LW7S-32LC6M    |
| 45°<br>3-position<br>Spring Return<br>Two-way   |  | Gold  | DPDT             | LW7S-33LC2 | LW7S-33LC2V         | LW7S-33LC2M       |                |
|   |   |   | 3PDT             | LW7S-33LC3 | LW7S-33LC3V         | —                 |                |
|   |   | Silver  | DPDT             | LW7S-33LC6 | —                   | LW7S-33LC6M       |                |

1. For replacement part numbers see page 666.
2. For contact operation see page 676.

Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

Terminal Blocks

Circuit Breakers





**Round Key Selector Switches with Metal Bezel (2-Position and 3-Position)**

| Shape                           | Operation  | Position | Key Retained at ● | Contact Material | Contact    | Part Numbers        |                   |                |
|---------------------------------|--|----------|-------------------|------------------|------------|---------------------|-------------------|----------------|
|                                 |  |          |                   |                  |            | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| Round                           | 90°<br>2-position<br>Maintained                  | A        |                   | Gold             | SPDT       | LW6MK-2C1A          | LW6MK-2C1VA       | —              |
|                                 |  |          |                   |                  | DPDT       | LW6MK-2C2A          | LW6MK-2C2VA       | LW6MK-2C2MA    |
|                                 |  |          |                   |                  | 3PDT       | LW6MK-2C3A          | LW6MK-2C3VA       | —              |
|                                 |  |          |                   | Silver           | SPDT       | LW6MK-2C5A          | —                 | —              |
|                                 |  |          |                   |                  | DPDT       | LW6MK-2C6A          | —                 | LW6MK-2C6MA    |
|                                 |  |          |                   |                  | 3PDT       | LW6MK-2C7A          | —                 | —              |
|                                 |  | B        | Gold              | SPDT             | LW6MK-2C1B | LW6MK-2C1VB         | —                 |                |
|                                 |  |          |                   | DPDT             | LW6MK-2C2B | LW6MK-2C2VB         | LW6MK-2C2MB       |                |
|                                 |  |          |                   | 3PDT             | LW6MK-2C3B | LW6MK-2C3VB         | —                 |                |
|                                 |  |          | Silver            | SPDT             | LW6MK-2C5B | —                   | —                 |                |
|                                 |  |          |                   | DPDT             | LW6MK-2C6B | —                   | LW6MK-2C6MB       |                |
|                                 |  |          |                   | 3PDT             | LW6MK-2C7B | —                   | —                 |                |
|                                 | C  | Gold     |                   | SPDT             | LW6MK-2C1C | LW6MK-2C1VC         | —                 |                |
|                                 |  |          |                   | DPDT             | LW6MK-2C2C | LW6MK-2C2VC         | LW6MK-2C2MC       |                |
|                                 |  |          |                   | 3PDT             | LW6MK-2C3C | LW6MK-2C3VC         | —                 |                |
|                                 |  | Silver   | SPDT              | LW6MK-2C5C       | —          | —                   |                   |                |
|                                 |  |          | DPDT              | LW6MK-2C6C       | —          | LW6MK-2C6MC         |                   |                |
|                                 |  |          | 3PDT              | LW6MK-2C7C       | —          | —                   |                   |                |
|                                 | 90°<br>2-position<br>Spring Return<br>from Right | B        |                   | Gold             | SPDT       | LW6MK-21C1B         | LW6MK-21C1VB      | —              |
|                                 |  |          |                   |                  | DPDT       | LW6MK-21C2B         | LW6MK-21C2VB      | LW6MK-21C2MB   |
|                                 |  |          |                   |                  | 3PDT       | LW6MK-21C3B         | LW6MK-21C3VB      | —              |
|                                 |  |          |                   | Silver           | SPDT       | LW6MK-21C5B         | —                 | —              |
|                                 |  |          |                   |                  | DPDT       | LW6MK-21C6B         | —                 | LW6MK-21C6MB   |
|                                 |  |          |                   |                  | 3PDT       | LW6MK-21C7B         | —                 | —              |
| 45°<br>3-position<br>Maintained | A  |          | Gold              | DPDT             | LW6MK-3C2A | LW6MK-3C2VA         | LW6MK-3C2MA       |                |
|                                 |  |          |                   | 3PDT             | LW6MK-3C3A | LW6MK-3C3VA         | —                 |                |
|                                 |  |          |                   | Silver           | DPDT       | LW6MK-3C6A          | —                 | LW6MK-3C6MA    |
|                                 |  |          | 3PDT              |                  | LW6MK-3C7A | —                   | —                 |                |
|                                 |  |          | B                 |                  | Gold       | DPDT                | LW6MK-3C2B        | LW6MK-3C2VB    |
|                                 |  |          |                   | 3PDT             |            | LW6MK-3C3B          | LW6MK-3C3VB       | —              |
|                                 | Silver   | DPDT     |                   | LW6MK-3C6B       |            | —                   | LW6MK-3C6MB       |                |
|                                 |  | 3PDT     |                   | LW6MK-3C7B       | —          | —                   |                   |                |
|                                 |  | C        |                   | Gold             |            | DPDT                | LW6MK-3C2C        | LW6MK-3C2VC    |
|                                 | 3PDT   |          |                   |                  |            | LW6MK-3C3C          | LW6MK-3C3VC       | —              |
|                                 | Silver   |          | DPDT              |                  |            | LW6MK-3C6C          | —                 | LW6MK-3C6MC    |
|                                 |  |          | 3PDT              | LW6MK-3C7C       | —          | —                   |                   |                |
|                                 |  |          | D                 | Gold             |            | DPDT                | LW6MK-3C2D        | LW6MK-3C2VD    |
|                                 | 3PDT   |          |                   |                  |            | LW6MK-3C3D          | LW6MK-3C3VD       | —              |
|                                 | Silver   | DPDT     |                   |                  |            | LW6MK-3C6D          | —                 | LW6MK-3C6MD    |
|                                 |  | 3PDT     |                   | LW6MK-3C7D       | —          | —                   |                   |                |
|                                 |  | E        |                   | Gold             |            | DPDT                | LW6MK-3C2E        | LW6MK-3C2VE    |
|                                 | 3PDT   |          |                   |                  |            | LW6MK-3C3E          | LW6MK-3C3VE       | —              |
|                                 | Silver   |          | DPDT              |                  |            | LW6MK-3C6E          | —                 | LW6MK-3C6ME    |
|                                 |  |          | 3PDT              | LW6MK-3C7E       | —          | —                   |                   |                |
|                                 |  |          | G                 | Gold             |            | DPDT                | LW6MK-3C2G        | LW6MK-3C2VG    |
|                                 | 3PDT   |          |                   |                  |            | LW6MK-3C3G          | LW6MK-3C3VG       | —              |
|                                 | Silver   | DPDT     |                   |                  |            | LW6MK-3C6G          | —                 | LW6MK-3C6MG    |
|                                 |  | 3PDT     |                   | LW6MK-3C7G       | —          | —                   |                   |                |
| H                               |  | Gold     |                   |                  | DPDT       | LW6MK-3C2H          | LW6MK-3C2VH       | LW6MK-3C2MH    |
|                                 | 3PDT   |          |                   |                  | LW6MK-3C3H | LW6MK-3C3VH         | —                 |                |
|                                 | Silver   |          | DPDT              |                  | LW6MK-3C6H | —                   | LW6MK-3C6MH       |                |
|                                 |  | 3PDT     | LW6MK-3C7H        | —                | —          |                     |                   |                |

\*Key is retained in ● and removable in ○ position.

Switches & Pilot Lights  
Display Lights  
Relays & Sockets  
Timers  
Terminal Blocks  
Circuit Breakers



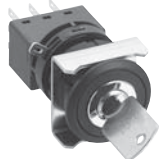









| Shape  | Operation  | Position   | Key Retained at ●   | Contact Material | Contact     | Part Numbers        |                   |                |
|--|--|--|---|------------------|-------------|---------------------|-------------------|----------------|
|  |  |  |   |                  |             | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
|  <p>Round</p> | 45°<br>3-position<br>Spring Return<br>from Right | B  |  | Gold             | DPDT        | LW6MK-31C2B         | LW6MK-31C2VB      | LW6MK-31C2MB   |
|  |  |  |   |                  | 3PDT        | LW6MK-31C3B         | LW6MK-31C3VB      | —              |
|  |  |  |   | Silver           | DPDT        | LW6MK-31C6B         | —                 | LW6MK-31C6MB   |
|  |  |  |   |                  | 3PDT        | LW6MK-31C7B         | —                 | —              |
|  |  | D  | Gold  | DPDT             | LW6MK-31C2D | LW6MK-31C2VD        | LW6MK-31C2MD      |                |
|  |  |  |   | 3PDT             | LW6MK-31C3D | LW6MK-31C3VD        | —                 |                |
|  |  |  | Silver  | DPDT             | LW6MK-31C6D | —                   | LW6MK-31C6MD      |                |
|  |  |  |   | 3PDT             | LW6MK-31C7D | —                   | —                 |                |
|  |  | G  | Gold  | DPDT             | LW6MK-31C2G | LW6MK-31C2VG        | LW6MK-31C2MG      |                |
|  |  |  |   | 3PDT             | LW6MK-31C3G | LW6MK-31C3VG        | —                 |                |
|  |  |  | Silver  | DPDT             | LW6MK-31C6G | —                   | LW6MK-31C6MG      |                |
|  |  |  |   | 3PDT             | LW6MK-31C7G | —                   | —                 |                |
|  | 45°<br>3-position<br>Spring Return<br>from Left  | C  |  | Gold             | DPDT        | LW6MK-32C2C         | LW6MK-32C2VC      | LW6MK-32C2MC   |
|  |  |  |   |                  | 3PDT        | LW6MK-32C3C         | LW6MK-32C3VC      | —              |
|  |  |  |   | Silver           | DPDT        | LW6MK-32C6C         | —                 | LW6MK-32C6MC   |
|  |  |  |   |                  | 3PDT        | LW6MK-32C7C         | —                 | —              |
|  |  | D  | Gold  | DPDT             | LW6MK-32C2D | LW6MK-32C2VD        | LW6MK-32C2MD      |                |
|  |  |  |   | 3PDT             | LW6MK-32C3D | LW6MK-32C3VD        | —                 |                |
|  |  |  | Silver  | DPDT             | LW6MK-32C6D | —                   | LW6MK-32C6MD      |                |
|  |  |  |   | 3PDT             | LW6MK-32C7D | —                   | —                 |                |
|  |  | H  | Gold  | DPDT             | LW6MK-32C2H | LW6MK-32C2VH        | LW6MK-32C2MH      |                |
|  |  |  |   | 3PDT             | LW6MK-32C3H | LW6MK-32C3VH        | —                 |                |
|  |  |  | Silver  | DPDT             | LW6MK-32C6H | —                   | LW6MK-32C6MH      |                |
|  |  |  |   | 3PDT             | LW6MK-32C7H | —                   | —                 |                |
| 45°<br>3-position<br>Spring Return<br>Two-way  | D  |  | Gold  | DPDT             | LW6MK-33C2D | LW6MK-33C2VD        | LW6MK-33C2MD      |                |
|  |  |  |   | 3PDT             | LW6MK-33C3D | LW6MK-33C3VD        | —                 |                |
|  |  |  | Silver  | DPDT             | LW6MK-33C6D | —                   | LW6MK-33C6MD      |                |
|  |  |  |   | 3PDT             | LW6MK-33C7D | —                   | —                 |                |







- Key is retained in ● position and removable in ○ position.
- Two keys are supplied.
- Key cylinder face material: Metal
- To select different key numbers, specify numbers from 501 to 515 after the part number. When a key number is not specified, key number 500 is supplied as the default key.  
Example: LW6MK-2C1A-501  
500 (default key) to 515
- For replacement part numbers see page 666.
- For Contact Operation chart see page 676.

Switches & Pilot Lights  
Display Lights  
Relays & Sockets  
Timers  
Terminal Blocks  
Circuit Breakers

Key Selector Switches with Black Plastic Bezel (2-Position and 3-Position)

| Shape  | Operation  | Position  | Key Retained at ●   | Contact Material | Contact    | Part Numbers        |                   |                |
|--|--|---|---|------------------|------------|---------------------|-------------------|----------------|
|  |  |   |   |                  |            | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| Round<br> | 90°<br>2-position<br>Maintained                  | A   |    | Gold             | SPDT       | LW6K-2C1A           | LW6K-2C1VA        | —              |
|  |  |   |   |                  | DPDT       | LW6K-2C2A           | LW6K-2C2VA        | LW6K-2C2A      |
|  |  |   |   |                  | 3PDT       | LW6K-2C3A           | LW6K-2C3VA        | —              |
|  |  |   |   | Silver           | SPDT       | LW6K-2C5A           | —                 | —              |
|  |  |   |   |                  | DPDT       | LW6K-2C6A           | —                 | LW6K-2C6A      |
|  |  |   |   |                  | 3PDT       | LW6K-2C7A           | —                 | —              |
|  |  | B   | Gold  | SPDT             | LW6K-2C1B  | LW6K-2C1VB          | —                 |                |
|  |  |   |   | DPDT             | LW6K-2C2B  | LW6K-2C2VB          | LW6K-2C2B         |                |
|  |  |   |   | 3PDT             | LW6K-2C3B  | LW6K-2C3VB          | —                 |                |
|  |  |   | Silver  | SPDT             | LW6K-2C5B  | —                   | —                 |                |
|  |  |   |   | DPDT             | LW6K-2C6B  | —                   | LW6K-2C6B         |                |
|  |  |   |   | 3PDT             | LW6K-2C7B  | —                   | —                 |                |
|  | C  | Gold  |    | SPDT             | LW6K-2C1C  | LW6K-2C1VC          | —                 |                |
|  |  |   |   | DPDT             | LW6K-2C2C  | LW6K-2C2VC          | LW6K-2C2C         |                |
|  |  |   |   | 3PDT             | LW6K-2C3C  | LW6K-2C3VC          | —                 |                |
|  |  | Silver  | SPDT  | LW6K-2C5C        | —          | —                   |                   |                |
|  |  |   | DPDT  | LW6K-2C6C        | —          | LW6K-2C6C           |                   |                |
|  |  |   | 3PDT  | LW6K-2C7C        | —          | —                   |                   |                |
|  | 90°<br>2-position<br>Spring Return<br>from Right | B   |    | Gold             | SPDT       | LW6K-21C1B          | LW6K-21C1VB       | —              |
|  |  |   |   |                  | DPDT       | LW6K-21C2B          | LW6K-21C2VB       | LW6K-21C2B     |
|  |  |   |   |                  | 3PDT       | LW6K-21C3B          | LW6K-21C3VB       | —              |
|  |  |   |   | Silver           | SPDT       | LW6K-21C5B          | —                 | —              |
|  |  |   |   |                  | DPDT       | LW6K-21C6B          | —                 | LW6K-21C6B     |
|  |  |   |   |                  | 3PDT       | LW6K-21C7B          | —                 | —              |
| 45°<br>3-position<br>Maintained  | A  |  | Gold  | DPDT             | LW6K-3C2A  | LW6K-3C2VA          | LW6K-3C2A         |                |
|  |  |   |   | 3PDT             | LW6K-3C3A  | LW6K-3C3VA          | —                 |                |
|  |  |   |   | Silver           | DPDT       | LW6K-3C6A           | —                 | LW6K-3C6A      |
|  |  |   | Silver  | 3PDT             | LW6K-3C7A  | —                   | —                 |                |
|  |  |   |   | Gold             | DPDT       | LW6K-3C2B           | LW6K-3C2VB        | LW6K-3C2B      |
|  |  |   |   |                  | 3PDT       | LW6K-3C3B           | LW6K-3C3VB        | —              |
|  | Silver   | DPDT  | LW6K-3C6B   |                  | —          | LW6K-3C6B           |                   |                |
|  | Silver   | 3PDT  | LW6K-3C7B   | —                | —          |                     |                   |                |
|  |  | Gold  |  | DPDT             | LW6K-3C2C  | LW6K-3C2VC          | LW6K-3C2C         |                |
|  |  |   |   | 3PDT             | LW6K-3C3C  | LW6K-3C3VC          | —                 |                |
|  | Silver   |   |   | DPDT             | LW6K-3C6C  | —                   | LW6K-3C6C         |                |
|  | Silver   | 3PDT  | LW6K-3C7C   | —                | —          |                     |                   |                |
|  |  | Gold  |  | DPDT             | LW6K-3C2D  | LW6K-3C2VD          | LW6K-3C2D         |                |
|  |  |   |   | 3PDT             | LW6K-3C3D  | LW6K-3C3VD          | —                 |                |
|  | Silver   |   |   | DPDT             | LW6K-3C6D  | —                   | LW6K-3C6D         |                |
|  | Silver   | 3PDT  | LW6K-3C7D   | —                | —          |                     |                   |                |
|  |  | Gold  |  | DPDT             | LW6K-3C2E  | LW6K-3C2VE          | LW6K-3C2E         |                |
|  |  |   |   | 3PDT             | LW6K-3C3E  | LW6K-3C3VE          | —                 |                |
|  | Silver   |   |   | DPDT             | LW6K-3C6E  | —                   | LW6K-3C6E         |                |
|  | Silver   | 3PDT  | LW6K-3C7E   | —                | —          |                     |                   |                |
|  |  | Gold  |  | DPDT             | LW6K-3C2G  | LW6K-3C2VG          | LW6K-3C2G         |                |
|  |  |   |   | 3PDT             | LW6K-3C3G  | LW6K-3C3VG          | —                 |                |
|  | Silver   |   |   | DPDT             | LW6K-3C6G  | —                   | LW6K-3C6G         |                |
|  | Silver   | 3PDT  | LW6K-3C7G   | —                | —          |                     |                   |                |
| Gold   |  |  | DPDT  | LW6K-3C2H        | LW6K-3C2VH | LW6K-3C2H           |                   |                |
|  |  |   | 3PDT  | LW6K-3C3H        | LW6K-3C3VH | —                   |                   |                |
|  | Silver   |   | DPDT  | LW6K-3C6H        | —          | LW6K-3C6H           |                   |                |
| Silver   | 3PDT   | LW6K-3C7H   | —   | —                |            |                     |                   |                |

\*Key is retained in ● and removable in ○ position.

| Shape  | Operation  | Position  | Key Retained at ●   | Contact Material | Contact    | Part Numbers        |                   |                |
|--|--|---|---|------------------|------------|---------------------|-------------------|----------------|
|  |  |   |   |                  |            | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| Round<br> | 45°<br>3-position<br>Spring Return<br>from Right | B   |  | Gold             | DPDT       | LW6K-31C2B          | LW6K-31C2VB       | LW6K-31C2B     |
|  |  |   |   |                  | 3PDT       | LW6K-31C3B          | LW6K-31C3VB       | —              |
|  |  |   |   | Silver           | DPDT       | LW6K-31C6B          | —                 | LW6K-31C6B     |
|  |  |   |   |                  | 3PDT       | LW6K-31C7B          | —                 | —              |
|  |  | D   | Gold  | DPDT             | LW6K-31C2D | LW6K-31C2VD         | LW6K-31C2D        |                |
|  |  |   |   | 3PDT             | LW6K-31C3D | LW6K-31C3VD         | —                 |                |
|  |  |   | Silver  | DPDT             | LW6K-31C6D | —                   | LW6K-31C6D        |                |
|  |  |   |   | 3PDT             | LW6K-31C7D | —                   | —                 |                |
|  |  | G   | Gold  | DPDT             | LW6K-31C2G | LW6K-31C2VG         | LW6K-31C2G        |                |
|  |  |   |   | 3PDT             | LW6K-31C3G | LW6K-31C3VG         | —                 |                |
|  |  |   | Silver  | DPDT             | LW6K-31C6G | —                   | LW6K-31C6G        |                |
|  |  |   |   | 3PDT             | LW6K-31C7G | —                   | —                 |                |
|  | 45°<br>3-position<br>Spring Return<br>from Left  | C   |  | Gold             | DPDT       | LW6K-32C2C          | LW6K-32C2VC       | LW6K-32C2C     |
|  |  |   |   |                  | 3PDT       | LW6K-32C3C          | LW6K-32C3VC       | —              |
|  |  |   |   | Silver           | DPDT       | LW6K-32C6C          | —                 | LW6K-32C6C     |
|  |  |   |   |                  | 3PDT       | LW6K-32C7C          | —                 | —              |
|  |  | D   | Gold  | DPDT             | LW6K-32C2D | LW6K-32C2VD         | LW6K-32C2D        |                |
|  |  |   |   | 3PDT             | LW6K-32C3D | LW6K-32C3VD         | —                 |                |
|  |  |   | Silver  | DPDT             | LW6K-32C6D | —                   | LW6K-32C6D        |                |
|  |  |   |   | 3PDT             | LW6K-32C7D | —                   | —                 |                |
|  |  | H   | Gold  | DPDT             | LW6K-32C2H | LW6K-32C2VH         | LW6K-32C2H        |                |
|  |  |   |   | 3PDT             | LW6K-32C3H | LW6K-32C3VH         | —                 |                |
|  |  |   | Silver  | DPDT             | LW6K-32C6H | —                   | LW6K-32C6H        |                |
|  |  |   |   | 3PDT             | LW6K-32C7H | —                   | —                 |                |
| 45°<br>3-position<br>Spring Return<br>Two-way  | D  |  | Gold  | DPDT             | LW6K-33C2D | LW6K-33C2VD         | LW6K-33C2D        |                |
|  |  |   |   | 3PDT             | LW6K-33C3D | LW6K-33C3VD         | —                 |                |
|  |  |   | Silver  | DPDT             | LW6K-33C6D | —                   | LW6K-33C6D        |                |
|  |  |   |   | 3PDT             | LW6K-33C7D | —                   | —                 |                |



- Key is retained in ● position and removable in ○ position.
- Two keys are supplied.
- Key cylinder face: Metal
- To select different key numbers, specify numbers from 501 to 515 after the part number. When a key number is not specified, key number 500 is supplied as the default key.  
Example: LW6MK-2C1A-501
- 500 (default key) to 515
- For replacement part numbers see page 666.
- For Contact Operation chart see page 676.

Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

Terminal Blocks

Circuit Breakers



**Illuminated Round Selector Switches with Metal or Black Plastic Bezel**

| Shape   | Operation  | Position | Contact Material | Contact      | Part Numbers        |                   |                |
|---|--|----------|------------------|--------------|---------------------|-------------------|----------------|
|   |  |          |                  |              | Solder/Tab Terminal | PC Board Terminal | Screw Terminal |
| Round<br>(Knob Operator)                        | 90°<br>2-position<br>Maintained                  |          | Gold             | SPDT         | LW6MF-2C1③②         | LW6MF-2C1③V②      | —              |
|   |  |          |                  | DPDT         | LW6MF-2C2③②         | LW6MF-2C2③V②      | LW6MF-2C2③M②   |
|   |  |          |                  | 3PDT         | LW6MF-2C3③②         | LW6MF-2C3③V②      | —              |
|   |  |          | Silver           | SPDT         | LW6MF-2C5③②         | —                 | —              |
|   |  |          |                  | DPDT         | LW6MF-2C6③②         | —                 | LW6MF-2C6③M②   |
|   |  |          |                  | 3PDT         | LW6MF-2C7③②         | —                 | —              |
|   | 90°<br>2-position<br>spring Return<br>from Right |          | Gold             | SPDT         | LW6MF-21C1③②        | LW6MF-21C1③V②     | —              |
|   |  |          |                  | DPDT         | LW6MF-21C2③②        | LW6MF-21C2③V②     | LW6MF-21C2③M②  |
|   |  |          |                  | 3PDT         | LW6MF-21C3③②        | LW6MF-21C3③V②     | —              |
|   |  |          | Silver           | SPDT         | LW6MF-21C5③②        | —                 | —              |
|   |  |          |                  | DPDT         | LW6MF-21C6③②        | —                 | LW6MF-21C6③M②  |
|   |  |          |                  | 3PDT         | LW6MF-21C7③②        | —                 | —              |
|   | 45°<br>3-position<br>Maintained                  |          | Gold             | DPDT         | LW6MF-3C2③②         | LW6MF-3C2③V②      | LW6MF-3C2③M②   |
|   |  |          |                  | 3PDT         | LW6MF-3C3③②         | LW6MF-3C3③V②      | —              |
|   |  |          | Silver           | DPDT         | LW6MF-3C6③②         | —                 | LW6MF-3C6③M②   |
|   | 45°<br>3-position<br>spring Return<br>from Right |          | Gold             | DPDT         | LW6MF-31C2③②        | LW6MF-31C2③V②     | LW6MF-31C2③M②  |
|   |  |          |                  | 3PDT         | LW6MF-31C3③②        | LW6MF-31C3③V②     | —              |
|   |  |          | Silver           | DPDT         | LW6MF-31C6③②        | —                 | LW6MF-31C6③M②  |
| 45°<br>3-position<br>spring Return<br>from Left |  | Gold     | DPDT             | LW6MF-32C2③② | LW6MF-32C2③V②       | LW6MF-32C2③M②     |                |
|   |  |          | 3PDT             | LW6MF-32C3③② | LW6MF-32C3③V②       | —                 |                |
|   |  | Silver   | DPDT             | LW6MF-32C6③② | —                   | LW6MF-32C6③M②     |                |
| 45°<br>3-position<br>spring Return<br>Two-way   |  | Gold     | DPDT             | LW6MF-33C2③② | LW6MF-33C2③V②       | LW6MF-33C2③M②     |                |
|   |  |          | 3PDT             | LW6MF-33C3③② | LW6MF-33C3③V②       | —                 |                |
|   |  | Silver   | DPDT             | LW6MF-33C6③② | —                   | LW6MF-33C6③M②     |                |
| Round<br>(Knob Operator)                        | 90°<br>2-position<br>Maintained                  |          | Gold             | SPDT         | LW6F-2C1③②          | LW6F-2C1③V②       | —              |
|   |  |          |                  | DPDT         | LW6F-2C2③②          | LW6F-2C2③V②       | LW6F-2C2③M②    |
|   |  |          |                  | 3PDT         | LW6F-2C3③②          | LW6F-2C3③V②       | —              |
|   |  |          | Silver           | SPDT         | LW6F-2C5③②          | —                 | —              |
|   |  |          |                  | DPDT         | LW6F-2C6③②          | —                 | LW6F-2C6③M②    |
|   |  |          |                  | 3PDT         | LW6F-2C7③②          | —                 | —              |
|   | 90°<br>2-position<br>Spring Return<br>from Right |          | Gold             | SPDT         | LW6F-21C1③②         | LW6F-21C1③V②      | —              |
|   |  |          |                  | DPDT         | LW6F-21C2③②         | LW6F-21C2③V②      | LW6F-21C2③M②   |
|   |  |          |                  | 3PDT         | LW6F-21C3③②         | LW6F-21C3③V②      | —              |
|   |  |          | Silver           | SPDT         | LW6F-21C5③②         | —                 | —              |
|   |  |          |                  | DPDT         | LW6F-21C6③②         | —                 | LW6F-21C6③M②   |
|   |  |          |                  | 3PDT         | LW6F-21C7③②         | —                 | —              |
|   | 45°<br>3-position<br>Maintained                  |          | Gold             | DPDT         | LW6F-3C2③②          | LW6F-3C2③V②       | LW6F-3C2③M②    |
|   |  |          |                  | 3PDT         | LW6F-3C3③②          | LW6F-3C3③V②       | —              |
|   |  |          | Silver           | DPDT         | LW6F-3C6③②          | —                 | LW6F-3C6③M②    |
|   | 45°<br>3-position<br>Spring Return<br>from Right |          | Gold             | DPDT         | LW6F-31C2③②         | LW6F-31C2③V②      | LW6F-31C2③M②   |
|   |  |          |                  | 3PDT         | LW6F-31C3③②         | LW6F-31C3③V②      | —              |
|   |  |          | Silver           | DPDT         | LW6F-31C6③②         | —                 | LW6F-31C6③M②   |
| 45°<br>3-position<br>Spring Return<br>from Left |  | Gold     | DPDT             | LW6F-32C2③②  | LW6F-32C2③V②        | LW6F-32C2③M②      |                |
|   |  |          | 3PDT             | LW6F-32C3③②  | LW6F-32C3③V②        | —                 |                |
|   |  | Silver   | DPDT             | LW6F-32C6③②  | —                   | LW6F-32C6③M②      |                |
| 45°<br>3-position<br>Spring Return<br>Two-way   |  | Gold     | DPDT             | LW6F-33C2③②  | LW6F-33C2③V②        | LW6F-33C2③M②      |                |
|   |  |          | 3PDT             | LW6F-33C3③②  | LW6F-33C3③V②        | —                 |                |
|   |  | Silver   | DPDT             | LW6F-33C6③②  | —                   | LW6F-33C6③M②      |                |

② **Color Code**

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

③ **Voltage Code**

| Voltage   | Code |
|-----------|------|
| 6V AC/DC  | 2    |
| 12V AC/DC | 3    |
| 24V AC/DC | 4    |
| 120V AC   | 5    |
| 240V AC   | 6    |



- In place of ③ insert Lens/LED color code from table.
- In place of ③ insert Voltage code from table.
- Every illuminated selector switch contains an LED lamp (LSTD) of the specified color and voltage.
- For replacement part numbers see page 666.
- For Contact Operation chart see page 676.
- Yellow selector switch comes with white LED.

Switches & Pilot Lights

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Relays & Sockets

Timers

Terminal Blocks

Circuit Breakers

Round  
(Knob Operator)










Round  
(Knob Operator)





Illuminated Square Selector Switches with Black Plastic Bezel

| Shape   | Operation  | Position  | Contact Material  | Contact   | Part Numbers  |                           |                           |                           |                           |
|---|--|---|---|---|---|---------------------------|---------------------------|---------------------------|---------------------------|
|   |  |   |   |   | Solder/Tab Terminal   | PC Board Terminal         | Screw Terminal            |                           |                           |
| Square<br>(Knob Operator)  | 90°<br>2-position<br>Maintained                  |  | Gold  | SPDT  | LW7F-2C1 <sup>③</sup> ②   | LW7F-2C1 <sup>③</sup> V②  | —                         |                           |                           |
|   |  |   |   | DPDT  | LW7F-2C2 <sup>③</sup> ②   | LW7F-2C2 <sup>③</sup> V②  | LW7F-2C2 <sup>③</sup> M②  |                           |                           |
|   |  |   |   | 3PDT  | LW7F-2C3 <sup>③</sup> ②   | LW7F-2C3 <sup>③</sup> V②  | —                         |                           |                           |
|   |  |   | Silver  | SPDT  | LW7F-2C5 <sup>③</sup> ②   | —                         | —                         |                           |                           |
|   |  |   |   | DPDT  | LW7F-2C6 <sup>③</sup> ②   | —                         | LW7F-2C6 <sup>③</sup> M②  |                           |                           |
|   |  |   |   | 3PDT  | LW7F-2C7 <sup>③</sup> ②   | —                         | —                         |                           |                           |
|   | 90°<br>2-position<br>Spring Return<br>from Right |  | Gold  | SPDT  | LW7F-21C1 <sup>③</sup> ②  | LW7F-21C1 <sup>③</sup> V② | —                         |                           |                           |
|   |  |   |   | DPDT  | LW7F-21C2 <sup>③</sup> ②  | LW7F-21C2 <sup>③</sup> V② | LW7F-21C2 <sup>③</sup> M② |                           |                           |
|   |  |   |   | 3PDT  | LW7F-21C3 <sup>③</sup> ②  | LW7F-21C3 <sup>③</sup> V② | —                         |                           |                           |
|   |  |   | Silver  | SPDT  | LW7F-21C5 <sup>③</sup> ②  | —                         | —                         |                           |                           |
|   |  |   |   | DPDT  | LW7F-21C6 <sup>③</sup> ②  | —                         | LW7F-21C6 <sup>③</sup> M② |                           |                           |
|   |  |   |   | 3PDT  | LW7F-21C7 <sup>③</sup> ②  | —                         | —                         |                           |                           |
|   | 45°<br>3-position<br>Maintained                  |  | Gold  | DPDT  | LW7F-3C2 <sup>③</sup> ②   | LW7F-3C2 <sup>③</sup> V②  | LW7F-3C2 <sup>③</sup> M②  |                           |                           |
|   |  |   |   | 3PDT  | LW7F-3C3 <sup>③</sup> ②   | LW7F-3C3 <sup>③</sup> V②  | —                         |                           |                           |
|   |  |   |   | Silver  | DPDT  | LW7F-3C6 <sup>③</sup> ②   | —                         | LW7F-3C6 <sup>③</sup> M②  |                           |
|   |  |   | 3PDT  |   | LW7F-3C7 <sup>③</sup> ②   | —                         | —                         |                           |                           |
|   |  |   | 45°<br>3-position<br>Spring Return<br>from Right                                    |   |  | Gold                      | DPDT                      | LW7F-31C2 <sup>③</sup> ②  | LW7F-31C2 <sup>③</sup> V② |
|   |  |   |   | 3PDT  |   |                           | LW7F-31C3 <sup>③</sup> ②  | LW7F-31C3 <sup>③</sup> V② | —                         |
|   | Silver   | DPDT  |   | LW7F-31C6 <sup>③</sup> ②  |   |                           | —                         | LW7F-31C6 <sup>③</sup> M② |                           |
|   |  | 3PDT  |   | LW7F-31C7 <sup>③</sup> ②  |   | —                         | —                         |                           |                           |
|   |  | 45°<br>3-position<br>Spring Return<br>from Left                                   |   |  |   | Gold                      | DPDT                      | LW7F-32C2 <sup>③</sup> ②  | LW7F-32C2 <sup>③</sup> V② |
|   | 3PDT   |   |   |   |   |                           | LW7F-32C3 <sup>③</sup> ②  | LW7F-32C3 <sup>③</sup> V② | —                         |
|   | Silver   |   | DPDT  |   | LW7F-32C6 <sup>③</sup> ②  |                           | —                         | LW7F-32C6 <sup>③</sup> M② |                           |
|   |  |   | 3PDT  |   | LW7F-32C7 <sup>③</sup> ②  | —                         | —                         |                           |                           |
| 45°<br>3-position<br>Spring Return<br>Two-way   |  |   |  |   | Gold  | DPDT                      | LW7F-33C2 <sup>③</sup> ②  | LW7F-33C2 <sup>③</sup> V② | LW7F-33C2 <sup>③</sup> M② |
|   | 3PDT   |   |   |   |   | LW7F-33C3 <sup>③</sup> ②  | LW7F-33C3 <sup>③</sup> V② | —                         |                           |
|   | Silver   | DPDT  |   | LW7F-33C6 <sup>③</sup> ②  |   | —                         | LW7F-33C6 <sup>③</sup> M② |                           |                           |
|   |  | 3PDT  |   | LW7F-33C7 <sup>③</sup> ②  | —   | —                         |                           |                           |                           |

② Color Code

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

③ Voltage Code

| Voltage   | Code |
|-----------|------|
| 6V AC/DC  | 2    |
| 12V AC/DC | 3    |
| 24V AC/DC | 4    |
| 120V AC   | 5    |
| 240V AC   | 6    |

- 1. In place of ② insert Lens/LED color code from table.
- 2. In place of ③ insert Voltage code from table.
- 3. Every illuminated selector switch contains an LED lamp (LSTD) of the specified color and voltage.
- 4. For replacement part numbers see page 666.
- 5. For Contact Operation chart see page 676.
- 6. Yellow selector switch comes with white LED.

Switches & Pilot Lights

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## Replacement Parts Operators

**Pilot Lights**

| Shape  | Terminals  | Part Number |
|--------|------------|-------------|
| Round  | Solder Tab | LW6ⓄP-00    |
|        | Screw      | LW6ⓄP-00M   |
|        | PC Board   | LW6ⓄP-0     |
| Square | Solder Tab | LW7P-00     |
|        | Screw      | LW7P-00M    |
|        | PC Board   | LW7P-0      |



In place of Ⓞ insert Bezel Code.

**Non-illuminated & Illuminated Pushbuttons**

| Shape             | Function   | Part Number |
|-------------------|------------|-------------|
| Round             | Maintained | LW6ⓄL-A0    |
|                   | Momentary  | LW6ⓄL-M0    |
| Square            | Maintained | LW7L-A0     |
|                   | Momentary  | LW7L-M0     |
| Square with Guard | Maintained | LW7GL-A0    |
|                   | Momentary  | LW7GL-M0    |



In place of Ⓞ insert Bezel Code.

**Non-illuminated Selector Switches**

| Position                 | Shape                    | Function                 | Handle     | Part Number |         |          |
|--------------------------|--------------------------|--------------------------|------------|-------------|---------|----------|
| 2-Position               | Round                    | Maintained               | Knob       | LW6ⓄS-2Y    |         |          |
|                          |                          |                          | Lever      | LW6ⓄS-2L    |         |          |
|                          |                          | Spring Return from Right | Knob       | LW6ⓄS-21Y   |         |          |
|                          | Lever                    |                          | LW6ⓄS-21L  |             |         |          |
|                          | 3-Position               | Square                   | Maintained | Knob        | LW7S-2Y |          |
|                          |                          |                          |            | Lever       | LW7S-2L |          |
| Spring Return from Right |                          |                          | Knob       | LW7S-21Y    |         |          |
|                          |                          |                          | Lever      | LW7S-21L    |         |          |
| 3-Position               |                          |                          | Round      | Maintained  | Knob    | LW6ⓄS-3Y |
|                          |                          |                          |            |             | Lever   | LW6ⓄS-3L |
|                          | Spring Return from Right | Knob                     |            | LW6ⓄS-31Y   |         |          |
|                          |                          | Lever                    |            | LW6ⓄS-31L   |         |          |
|                          | Spring Return from Left  | Knob                     |            | LW6ⓄS-32Y   |         |          |
|                          |                          | Lever                    |            | LW6ⓄS-32L   |         |          |
| Two-way Spring Return    | Knob                     | LW6ⓄS-33Y                |            |             |         |          |
|                          | Lever                    | LW6ⓄS-33L                |            |             |         |          |
| 3-Position               | Square                   | Maintained               | Knob       | LW7S-3Y     |         |          |
|                          |                          |                          | Lever      | LW7S-3L     |         |          |
|                          |                          | Spring Return from Right | Knob       | LW7S-31Y    |         |          |
|                          |                          |                          | Lever      | LW7S-31L    |         |          |
|                          |                          | Spring Return from Left  | Knob       | LW7S-32Y    |         |          |
|                          |                          |                          | Lever      | LW7S-32L    |         |          |
|                          |                          | Two-way Spring Return    | Knob       | LW7S-33Y    |         |          |
|                          |                          |                          | Lever      | LW7S-33L    |         |          |

**Ⓞ Bezel Code**

|       | Code                |
|-------|---------------------|
| blank | Black Plastic Bezel |
| M     | Metal Bezel         |



In place of Ⓞ insert Bezel Code.

**Illuminated Selector Switches**

| Position   | Shape  | Function                 | Part Number |
|------------|--------|--------------------------|-------------|
| 2-Position | Round  | Maintained               | LW6ⓄF-20    |
|            |        | Spring Return from Right | LW6ⓄF-210   |
|            | Square | Maintained               | LW7F-20     |
|            |        | Spring Return from Right | LW7F-210    |
| 3-Position | Round  | Maintained               | LW6ⓄF-30    |
|            |        | Spring Return from Right | LW6ⓄF-310   |
|            |        | Spring Return from Left  | LW6ⓄF-320   |
|            |        | Two-way Spring Return    | LW6ⓄF-330   |
|            | Square | Maintained               | LW7F-30     |
|            |        | Spring Return from Right | LW7F-310    |
|            |        | Spring Return from Left  | LW7F-320    |
|            |        | Two-way Spring Return    | LW7F-330    |

In place of Ⓞ insert Bezel Code.

**Key Selector Switches**

| Position   | Shape | Function                 | Part Number |
|------------|-------|--------------------------|-------------|
| 2-Position | Round | Maintained               | LW6ⓄK-2     |
|            |       | Spring Return from Right | LW6ⓄK-21    |
| 3-Position | Round | Maintained               | LW6ⓄK-3Ⓞ    |
|            |       | Spring Return from Right | LW6ⓄK-31Ⓞ   |
|            |       | Spring Return from Left  | LW6ⓄK-32Ⓞ   |
|            |       | Two-way Spring Return    | LW6ⓄK-33Ⓞ   |

1. In place of Ⓞ insert Bezel Code.  
2. In place of Ⓞ insert Key Removable Option Code.







**Ⓞ Bezel Code**

| Code  | Description         |
|-------|---------------------|
| blank | Black Plastic Bezel |
| M     | Metal Bezel         |

**Ⓞ Key Removable Option Codes**




| Code | Description   |
|------|---|
| A    | Key not retained in any position (removable in all positions) |
| B    | Key retained in right position only                           |
| C    | Key retained in left position only                            |
| D    | Key retained in left and right (3 position only)              |
| E    | Key retained in center only (3 position only)                 |
| G    | Key retained right and center (3 position only)               |
| H    | Key retained left and center (3 position only)                |

**Switches & Pilot Lights**
**Display Lights**
**Relays & Sockets**
**Lens/Buttons\***



| Shape  | Material    | Part Number | Color Code   |
|--|-------------|-------------|--|
| Lens (Round Flush)<br>                      | Polyarylate | LW1A-L1-Ⓢ   | Specify color code in place of Ⓢ in the part number.<br>A: amber<br>C: clear<br>G: green<br>R: red<br>S: blue<br>Y: yellow<br>Note: Use a clear lens for white illumination or for white (W) or black (B) buttons. |
| Lens (Round Extended)<br>                   | Polyarylate | LW1A-L2-Ⓢ   |  |
| Lens (Square Flush)<br>                     | Polyarylate | LW2A-L1-Ⓢ   |  |
| Lens for Pilot Lights (Round Extended)<br>  | Polyarylate | LW1A-P2-Ⓢ   |  |
| Lens for Pilot Lights (Square Extended)<br> | Polyarylate | LW2A-P2-Ⓢ   |  |
| Illuminated Selector Knob Operator<br>      | Plastic     | LW9Z-FD6Ⓢ   |  |

 \*Marking plate included with lens.

**Timers**
**Terminal Blocks**
**Marking Plates**

| Shape   | Material | Part Number | Color Code  |
|---|----------|-------------|---|
| Marking Plate (Round)<br>          | Acrylic  | LW9Z-P1W    | For round flush pushbuttons, round flush illuminated pushbuttons, and round extended pilot lights.    |
| Marking Plate (Square)<br>         | Acrylic  | LW9Z-P2W    | For square flush pushbuttons, square flush illuminated pushbuttons, and square extended pilot lights. |
| Marking Plate (Round Extended)<br> | Acrylic  | LW9Z-P12W   | For round extended pushbuttons and round extended illuminated pushbuttons.                            |

**Miscellaneous**

| Shape   | Material | Part Number | Color Code  |
|---|----------|-------------|---|
| Locking Ring<br> | Plastic  | LW9Z-LN     | Black   |
| Spare Key<br>    | Metal    | LW9Z-SK-500 | Standard – default key  |
|   |          | LW9Z-SK-Ⓢ   | Specify a key number 501 to 515 in place of Ⓢ in the part number. |

**Circuit Breakers**

Accessories

| Shape  | Material                        | Part Number           | Description   | Dimensions (mm)   |
|--|---------------------------------|-----------------------|---|---|
| <p>Locking Ring Wrench</p>   | Metal<br>(nickel-plated brass)  | LW9Z-T1               | Used to tighten the locking ring when installing into a panel.<br>Tightening torque: 1.2 N·m  |   |
| <p>Lamp Holder Tool</p>  | Rubber                          | OR-55                 | Used to install and remove LED lamps.   |   |
| <p>Lens Removal Tool</p>   | Rubber<br>(Ring: metal)         | MT-S01                | Used to remove the lenses.  |   |
| <p>Switch Guard with Lens<br/>(for Square Flush Lens)<br/>Spring Return Type</p> | Plastic<br>(Guard: transparent) | LW9Z-KS7 <sup>Ⓢ</sup> | Switch guard accessory comes with lens.<br>Cannot be used with maintained types (momentary buttons only).<br>Specify a lens color code in place of <sup>Ⓢ</sup> in the part number.<br>A: amber, C: clear, G: green, R: red, S: blue, Y: yellow<br>Use a clear lens for white illumination or for white (W) or black (B) buttons.<br><br>Note: Determine mounting centers to ensure easy operation. | <p>Panel Thickness<br/>0.8 to 3.2</p> <p>Mounting Hole Layout</p> |
| <p>Round Mounting Hole Plug</p>  | Plastic<br>(black)              | LW9Z-BS6              | Degree of protection: IP65<br>Panel thickness: 0.8 to 3.2 mm<br>See page 675 for mounting hole layout.  |   |
| <p>Square Mounting Hole Plug</p>   | Plastic<br>(black)              | LW9Z-BS7              | Degree of protection: IP65<br>Panel thickness: 0.8 to 3.2 mm<br>See page 675 for mounting hole layout.  |   |
| <p>Terminal Cover<br/>For Solder/Tab Terminal</p>                                | Plastic<br>(translucent)        | LW-VL2                | For separate solder/tab terminal units only.  |   |
| <p>Terminal Cover<br/>For Screw Terminal</p>                                     | Plastic<br>(black)              | LW-VL2M               | For separate screw terminal units only.   |   |
| <p>Terminal Cover<br/>For Solder/Tab Terminal</p>                                | Plastic<br>(translucent)        | LW-PVL                | For unibody solder/tab terminal pilot lights only.  |   |
| <p>Terminal Cover<br/>For Screw Terminal</p>                                     | Plastic<br>(translucent)        | LW-PVLM               | For unibody screw terminal pilot lights only.   |   |

Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

Terminal Blocks

Circuit Breakers

Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

Terminal Blocks

Circuit Breakers

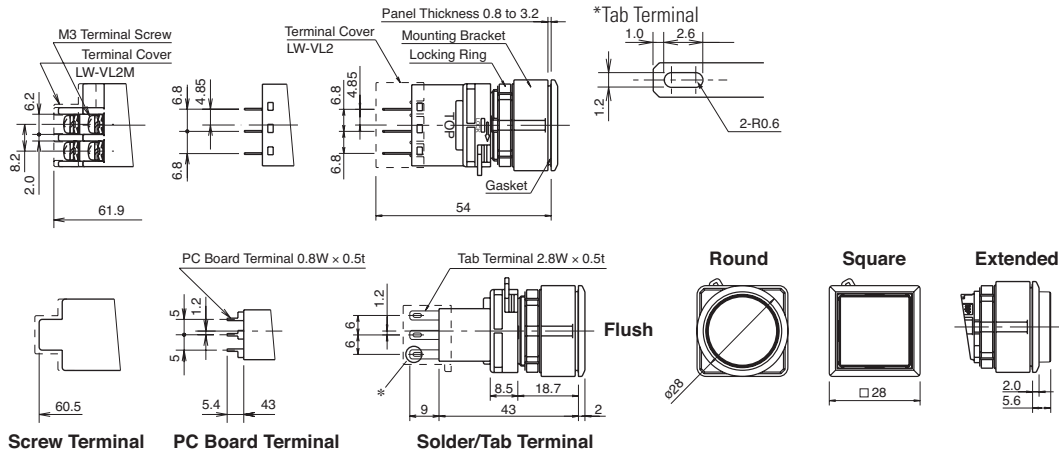
**Contact Blocks**

| Appearance  | Style                    | Contact Material | Contact | Part Number |          |         |
|---|--------------------------|------------------|---------|-------------|----------|---------|
|   |                          |                  |         | Solder/Tab  | PC Board | Screw   |
|  | Non-illuminated Switches | Gold             | SPDT    | LW-C1       | LW-C1V   | —       |
|   |                          |                  | DPDT    | LW-C2       | LW-C2V   | LW-C2M  |
|   |                          |                  | 3PDT    | LW-C3       | LW-C3V   | —       |
|   |                          | Silver           | SPDT    | LW-C5       | —        | —       |
|   |                          |                  | DPDT    | LW-C6       | —        | LW-C6M  |
|   |                          |                  | 3PDT    | LW-C7       | —        | —       |
|  | Illuminated Switches     | Gold             | SPDT    | LW-C10      | LW-C10V  | —       |
|   |                          |                  | DPDT    | LW-C20      | LW-C20V  | LW-C20M |
|   |                          |                  | 3PDT    | LW-C30      | LW-C30V  | —       |
|   |                          | Silver           | SPDT    | LW-C50      | —        | —       |
|   |                          |                  | DPDT    | LW-C60      | —        | LW-C60M |
|   |                          |                  | 3PDT    | LW-C70      | —        | —       |

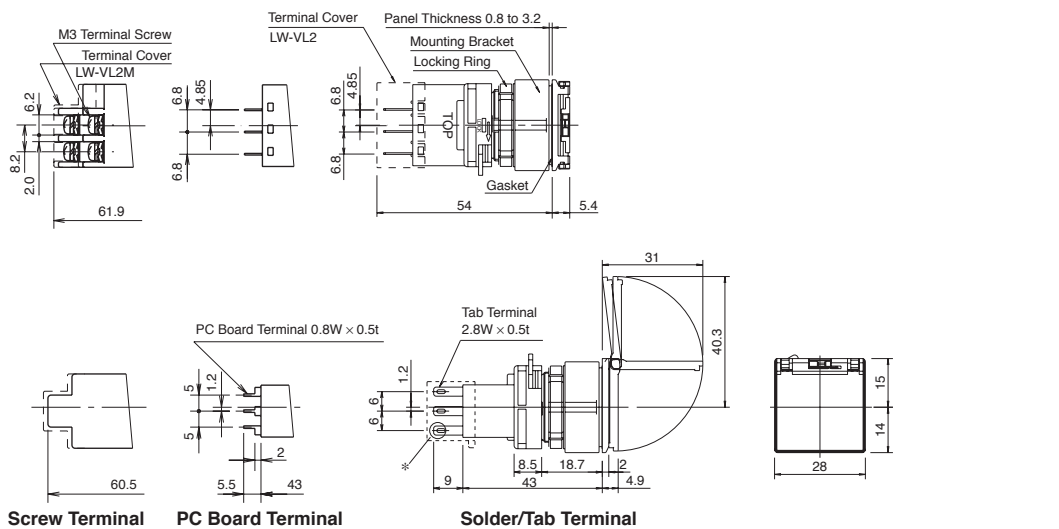
Dimensions (mm)

Non-illuminated Pushbuttons

Round/Square



Square Flush Guard



Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

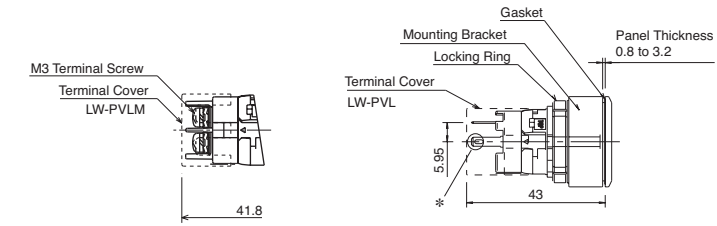
Terminal Blocks

Circuit Breakers

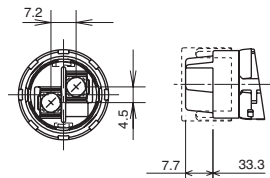
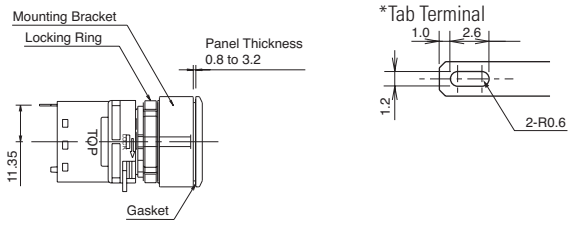


**Pilot Lights**

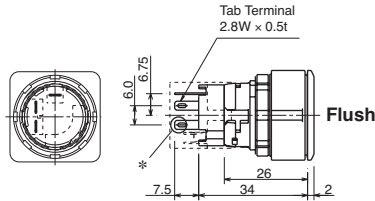
**Unibody**



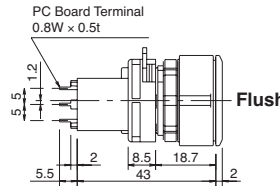
**Separate Model**



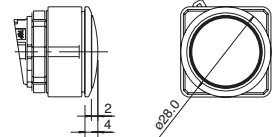
**Screw Terminal**



**Solder/Tab Terminal**

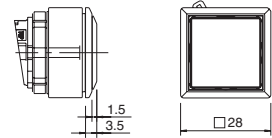


**PC Board Terminal**



**Round (Extended)**

**Round**

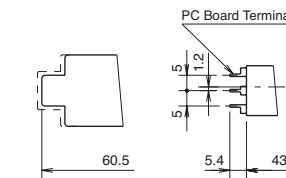
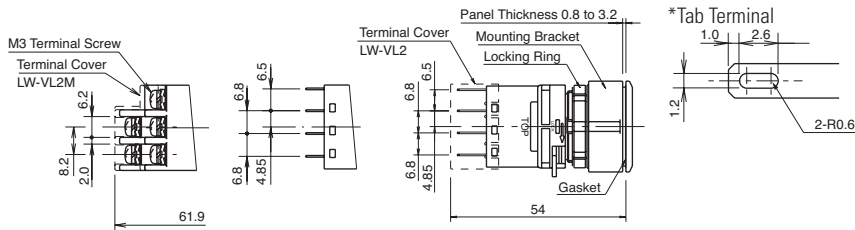


**Square (Extended)**

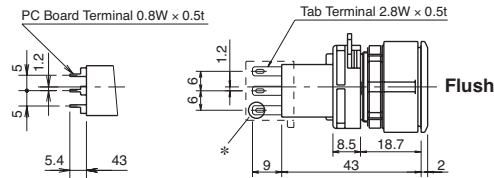
**Square**

**Illuminated Pushbuttons**

**Round/Square**

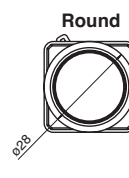


**Screw Terminal**

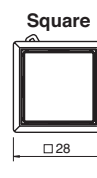


**PC Board Terminal**

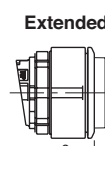
**Solder/Tab Terminal**



**Round**

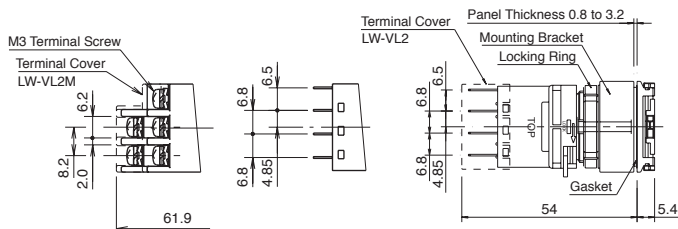


**Square**



**Extended**

**Square Flush Guard**



**Screw Terminal**

**PC Board Terminal**

**Solder/Tab Terminal**



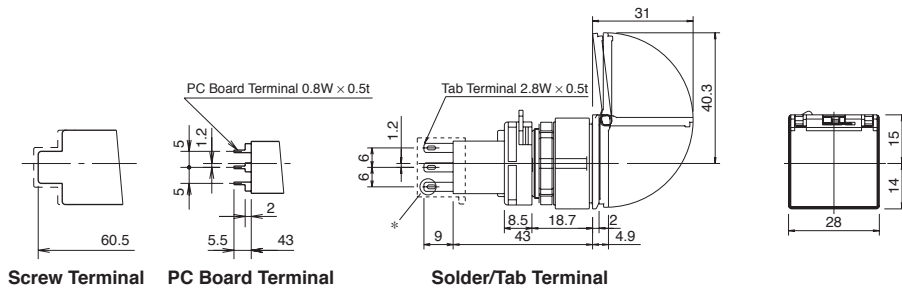
**Round**



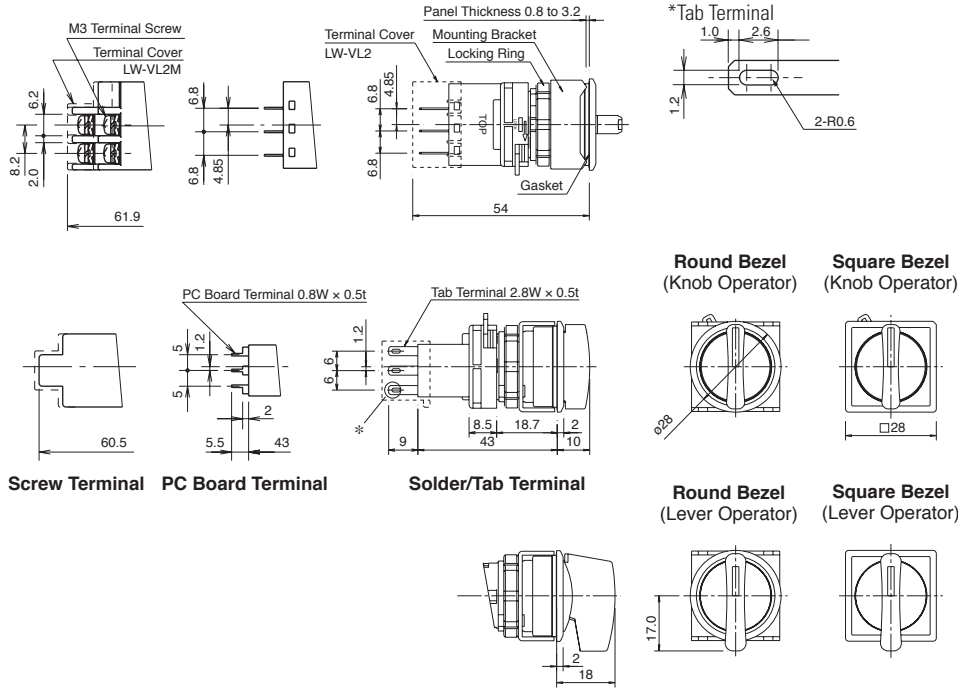
**Square**



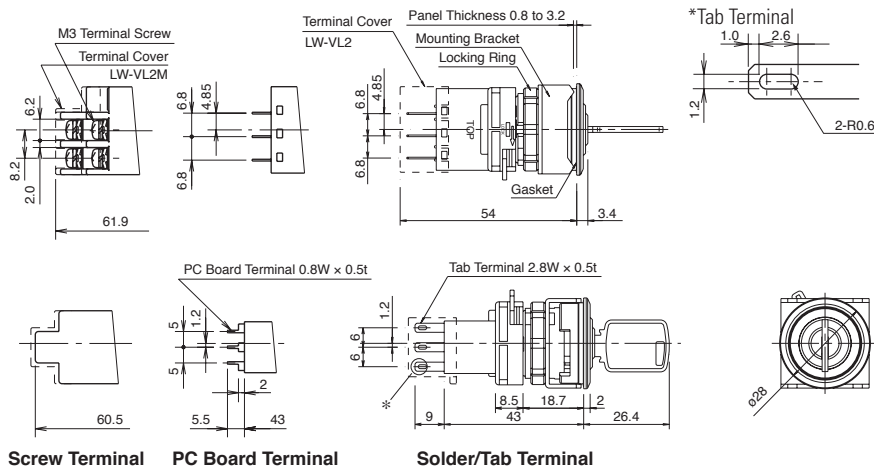
**Extended**



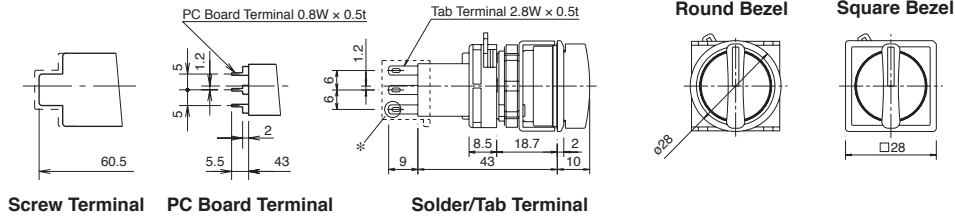
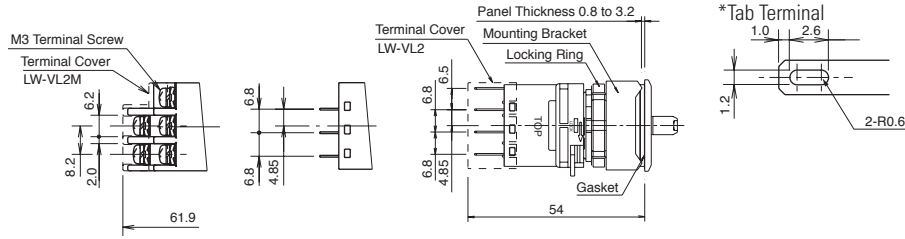
**Non-illuminated Selector Switches**



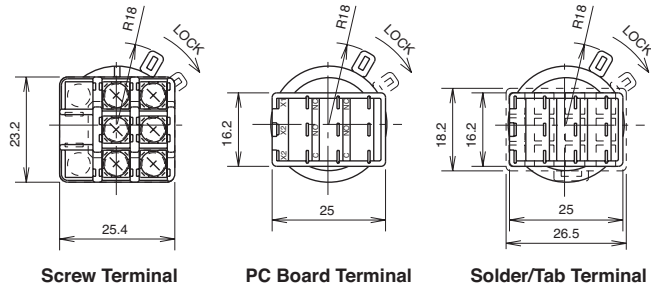
**Key Selector Switches**



**Illuminated Selector Switches**



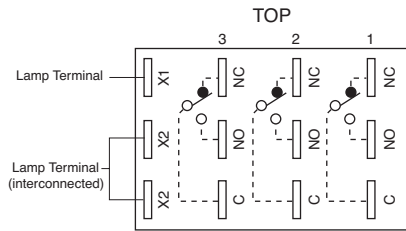
**Bottom View**



**Terminal Arrangements**

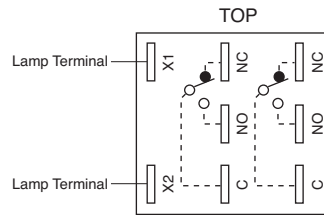
**Illuminated Units (except pilot lights)**

**Solder/Tab Terminal**



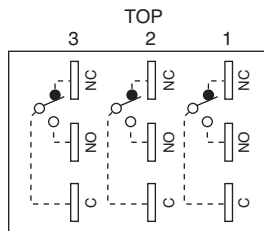
SPDT has C, NO, and NC only in the center. DPDT has C, NO, and NC only on the right and left. Screw terminal model is only available in DPDT configuration.

**Screw Terminal**



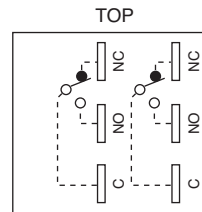
**All Non-illuminated Units**

**Solder/Tab Terminal**



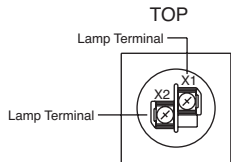
SPDT has C, NO, and NC only in the center. DPDT has C, NO, and NC only on the right and left. Screw terminal model is only available in DPDT configuration.

**Screw Terminal**

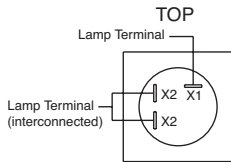


**Unibody Pilot Lights**

**Screw Terminal**

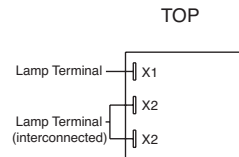


**Solder/Tab Terminal**



Lamp terminals do not have any polarity.

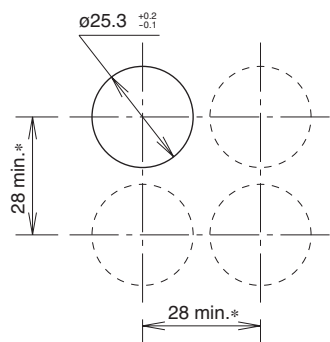
**Separate Model**



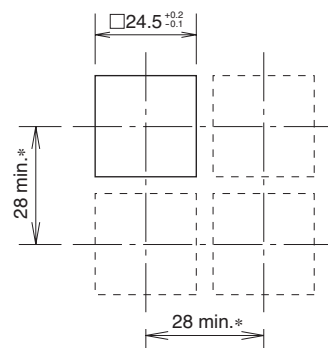
Lamp terminals do not have any polarity.

**Mounting Hole Layout**

**Round Models**

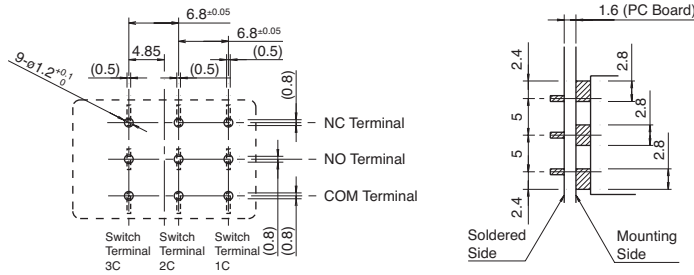


**Square Models**



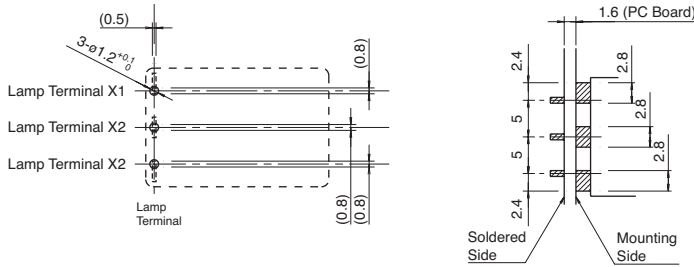
PC Board Drilling Layout (bottom view)

Non-illuminated Pushbuttons



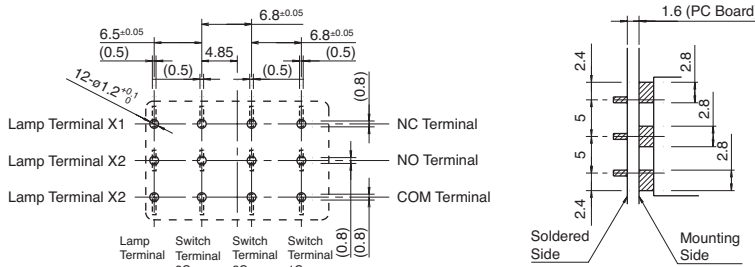
The pattern of the PC board as the terminals on the mounting surface are 2.8mm wide.

Pilot Lights



The pattern of the PC board as the terminals on the mounting surface are 2.8mm wide.

Illuminated Pushbuttons



The pattern of the PC board as the terminals on the mounting surface are 2.8mm wide.

Contact Operation\*

| Operation                | Contact      | Operator Position & Contact Position (Top View) |                              | Operation                  | Contact | Operator Position & Contact Position (Top View) |                             |                              |                             |
|--------------------------|--------------|---|------------------------------|----------------------------|---------|---|-----------------------------|------------------------------|-----------------------------|
|                          |              | Left  | Right                        |                            |         | Left  | Center                      | Right                        |                             |
| 90°<br>2-Position<br>L R | SPDT<br>DPDT | Left Contact<br>NO NC<br>C                      | Right Contact<br>NO NC<br>C  | 45°<br>3-Position<br>L C R | DPDT    | Left Contact<br>NO NC<br>C                      | Right Contact<br>NO NC<br>C | Left Contact<br>NO NC<br>C   | Right Contact<br>NO NC<br>C |
|                          | 3PDT         | Left Contact<br>NO NC<br>C                      | Center Contact<br>NO NC<br>C |                            |         | Right Contact<br>NO NC<br>C                     | Left Contact<br>NO NC<br>C  | Center Contact<br>NO NC<br>C | Right Contact<br>NO NC<br>C |

\*Valid for all Non-illuminated and Illuminated Selector Switches and Key Selector Switches.

### Safety Precautions

Turn off the power to the flush silhouette LW series before installation, removal, wiring, maintenance and inspection. Failure to turn power off may cause an electrical shock or fire hazard.

To avoid burning your hand, use the lamp holder tool when replacing lamps.

For wiring, use the correct size wires to meet voltage and current requirements. Solder correctly according to the instructions in **Wiring** and **Terminal Cover** (below and on following page). Tighten the M3.5 terminal screws to a torque of 0.6 to 1.0N·m. Failure to tighten terminal screws may cause overheating and increase risk of fire.

### General Instructions

#### Panel Mounting

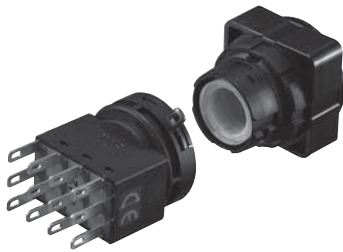
Remove the contact block from the operator. Insert the operator into the panel cut out from the front, then install the contact block.

#### Removing the Contact Block

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

#### Installing the Contact Block

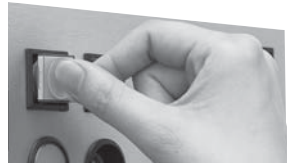
- Insert the contact block, with the TOP markings on the contact block and the operator placed in the same direction. Then lock the units, turning the locking lever in the direction of the arrow.



#### Replacement of the Lens & Marking Plate

##### Removal

- To remove the lens unit, press the suction cup of the optional lens removal tool (MT-S01) onto the lens and pull the lens unit out.



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

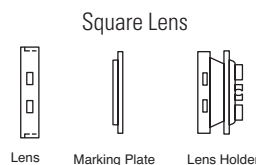
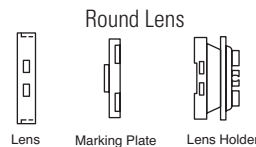


The translucent filter in the lens holder cannot be removed because the filter is sealed to make the unit waterproof and oiltight.

##### Installation

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

- Make sure of the correct orientation of the marking plate.



#### Marking Plate & Film

For LW series illuminated pushbuttons and pilot lights, legends and symbols can be engraved on marking plates, or printed 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  |            |             |
| Applicable Marking Film |            |             |

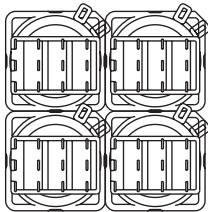
- Engraving must be made on the engraving area within 0.5mm deep.
- The marking plate is made of acrylic resin.
- Two 0.1mm-thick films or one 0.2mm-thick film can be installed in the lens.
- Marking film must be prepared separately.
- Recommended marking film: polyester

#### Notes on Mounting

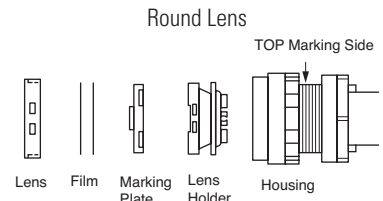
- Use the optional locking ring wrench (LW9Z-T1) to mount the operator into the panel. Tightening torque should not exceed 1.2N·m. Do not use pliers. Excessive tightening will damage the locking ring.

#### Collective Mounting

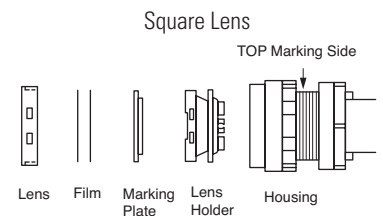
- As the locking lever can be turned easily from the rear of the units using a screwdriver, the contact blocks can be removed even when mounted collectively.



#### Insertion Order of Marking Plate and Film



Note: Film must be prepared separately.



Film must be prepared separately. 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.

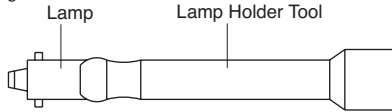
**Removing the Lamp**

- To remove, slip the lamp holder tool (OR-55) onto the lamp head. Then push slightly and turn the lamp holder tool counterclockwise.

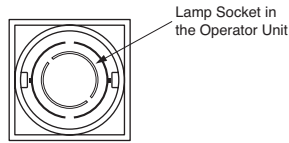


**Installing the Lamp**

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



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



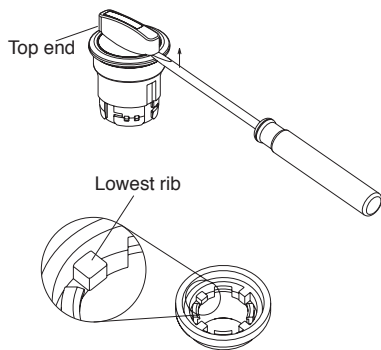
**Removing the Illuminated Selector Switch Knob**

**Removing the Knob**

Insert a flat screwdriver and remove the knob from the operator.

**Installing the Knob**

Press the knob into the operator. Align the recess on top end of the knob with the lowest rib on of the operator.



**Key Selector Switches**

When turning the key, do not pull the key out, otherwise, it may damage the switch.

**Wiring**

- Solder the terminals within 20W/5 sec or 260°C/3 sec without exerting external force on the terminals. Do not touch the plastic housing with the soldering iron. While wiring, prevent tension from being applied to the terminals. Do not bend or raise the terminals, or exert excessive force on the terminals.

- Use non-corrosive liquid flux.
- Positive-lock connector and easylock connectors are applicable to tab terminals.
- Tighten the terminal screw of the screw terminal models to a torque of 0.6 to 1.0N·m.

**Terminal Cover (for Solder/Tab Terminal)**

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

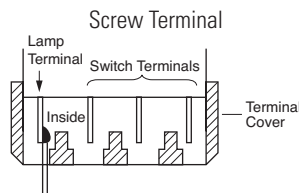


When wiring, insert the lead wires into the terminal cover holes before soldering.



**Wiring Terminal Cover**

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

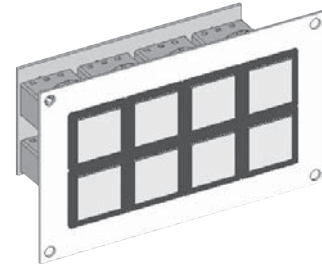


Install the terminal cover on the control unit before wiring.



1. After wiring, terminal covers cannot be installed.
2. When terminal covers are installed, ring terminals cannot be used. (For wiring, use fork terminals or lead wires directly.)

**Single Board Mounting**



Mounting the control units on a single PC board offers the following features.

- Reduced installation labor, easy wiring, space saving and standardization.
- Since the contact blocks on the PC board can easily be removed using a locking lever, control units are easy to maintain.
- Because the control units require no studs for fastening the control units to a PC board, special preparation of the panel is not needed.



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