

# Flush Silhouette Switches LB series Illuminated Pushbuttons

## Illuminated Pushbuttons

Solder/Tab Terminal

Package Quantity:1

| Part No. /<br>Shape | LB ① L-② 1 T ③ ④ ⑤ *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                         |             |  |                                                                                                                                                              |  |  |  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------|-------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|--|
|                     | <div><div></div><div></div><div></div></div> <div><div>Round / Black Bezel</div><div>Square / Black Bezel</div><div>Rectangular / Black Bezel</div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div>Round / Metallic Bezel</div><div>Square / Metallic Bezel</div><div>Rectangular / Metallic Bezel</div><div>Round with Guard</div><div>Square with Guard</div><div>Rectangular with Guard</div></div> |           |                         |             |  |                                                                                                                                                              |                                                                                     |  |  |
| ① Shape             | ② Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ③ Contact | ④ LED Operating Voltage | Part No.    |  | * Illumination Color Code                                                                                                                                    |                                                                                     |  |  |
| Black bezel         | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Gold/SPDT | 24V AC/DC               | LB①L-M1T14* |  | Specify the color code in place of * in the Part No.<br><br>A:   amber<br>G:   green<br>PW: pure white<br>R:   red<br>S:   blue<br>W:   white<br>Y:   yellow |                                                                                     |  |  |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Gold/DPDT |                         | LB①L-M1T24* |  |                                                                                                                                                              |                                                                                     |  |  |
|                     | Maintained                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Gold/SPDT | 24V AC/DC               | LB①L-A1T14* |  |                                                                                                                                                              |                                                                                     |  |  |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Gold/DPDT |                         | LB①L-A1T24* |  |                                                                                                                                                              |                                                                                     |  |  |
| Metallic bezel      | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Gold/SPDT | 24V AC/DC               | LB①L-M1T14* |  |                                                                                                                                                              |                                                                                     |  |  |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Gold/DPDT |                         | LB①L-M1T24* |  |                                                                                                                                                              |                                                                                     |  |  |
|                     | Maintained                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Gold/SPDT | 24V AC/DC               | LB①L-A1T14* |  |                                                                                                                                                              |                                                                                     |  |  |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Gold/DPDT |                         | LB①L-A1T24* |  |                                                                                                                                                              |                                                                                     |  |  |
| Guard Type          | Momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Gold/SPDT | 24V AC/DC               | LB①L-M1T14* |  |                                                                                                                                                              |                                                                                     |  |  |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Gold/DPDT |                         | LB①L-M1T24* |  |                                                                                                                                                              |                                                                                     |  |  |
|                     | Maintained                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Gold/SPDT | 24V AC/DC               | LB①L-A1T14* |  |                                                                                                                                                              |                                                                                     |  |  |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Gold/DPDT |                         | LB①L-A1T24* |  |                                                                                                                                                              |                                                                                     |  |  |

- Illuminated pushbuttons contain an LED unit. For details on LED units, see page 60.
- The guard opens 180 degrees spring-return.
- Illuminated pushbuttons can be used with legend markings. Engraving can be done on a marking plate which is placed in the lens, or a clear film can be printed and placed in the lens. See page 63 for details on the marking plate and film.
- White lens type (when light is off) are available. Clear lens is used instead of colored lens for amber, green, red, and blue illuminated pushbuttons. Amber, green, red, or blue LED units are used. To specify, see Part Number Development below.
- PC board terminals available for gold contacts. Silver contacts also available. To specify, see Part Number Development below.
- 5V DC and 12V AC/DC LED operating voltages also available.
- Other bezel sizes available (LBW series). For details, see page 24.

## Part Number Development

LB ① L-② 1 T ③ ④ ⑤ \*

### ① Shape

| Code | Shape                        |
|------|------------------------------|
| 6    | Round / Black Bezel          |
| 7    | Square / Black Bezel         |
| 8    | Rectangular / Black Bezel    |
| 6M   | Round / Metallic Bezel       |
| 7M   | Square / Metallic Bezel      |
| 8M   | Rectangular / Metallic Bezel |
| 6G   | Round with Guard             |
| 7G   | Square with Guard            |
| 8G   | Rectangular with Guard       |

### ② Operation

| Code | Operation  |
|------|------------|
| A    | Maintained |
| M    | Momentary  |

### ③ Contacts

| Code | Contact     |
|------|-------------|
| 1    | Gold/SPDT   |
| 2    | Gold/DPDT   |
| 5    | Silver/SPDT |
| 6    | Silver/DPDT |

### ④ LED Operating Voltage

| Code | Rated Operating Voltage |
|------|-------------------------|
| 1    | 5V DC                   |
| 3    | 12V AC/DC               |
| 4    | 24V AC/DC               |

### ⑤ Others

| Code  | Specification                                                                  | Part No. Example |
|-------|--------------------------------------------------------------------------------|------------------|
| Blank | Solder/Tab Terminal                                                            | —                |
| W     | White Lens Type (When Light is Off)                                            | LB6L-M1T14W*     |
| V     | PC Board Terminal (Gold Contact Only)                                          | LB6L-M1T14V*     |
| VW    | White Lens Type (When Light is Off) with PC Board Terminal (Gold Contact Only) | LB6L-M1T14VW*    |

- Specify the color code in place of \* in the table above.
- Color code for white lens type (when light is off) : A (amber), G (green), R (red), S (blue)

# Flush Silhouette Switches LB series Illuminated Pushbuttons

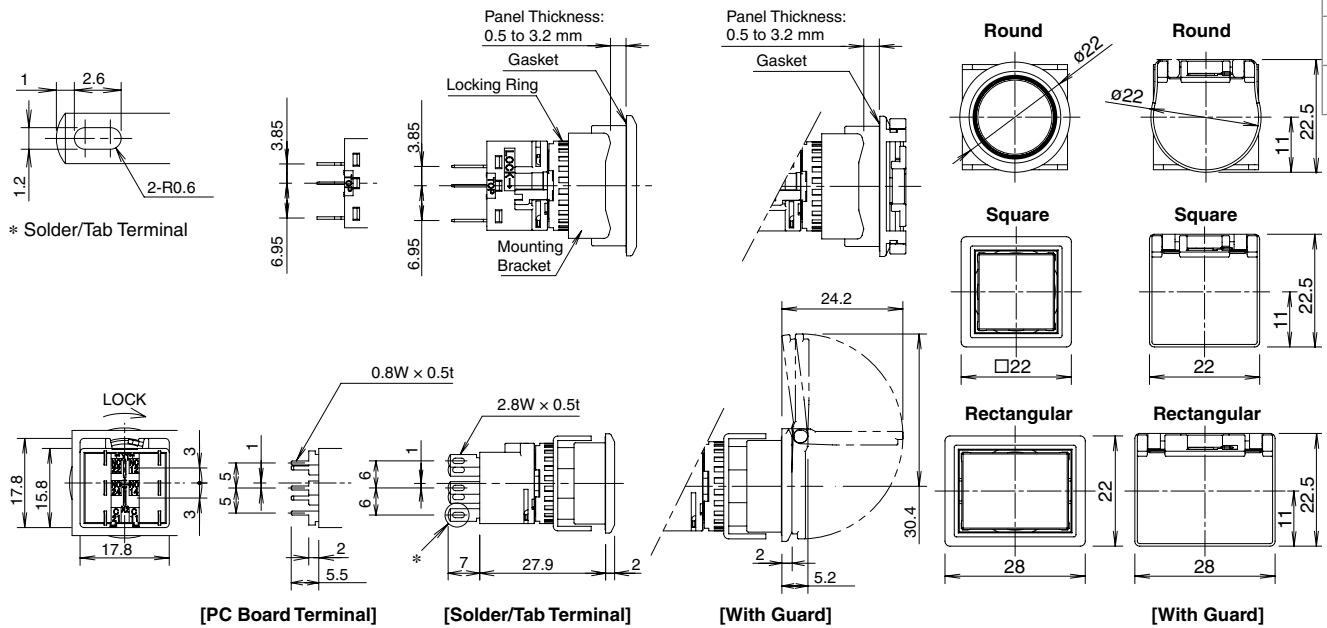
## Dimensions

Flush Silhouette  
LB Series

Flush Silhouette  
LBW Series

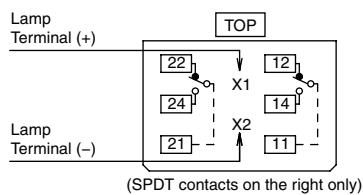
ø16  
LB Series

UP Series



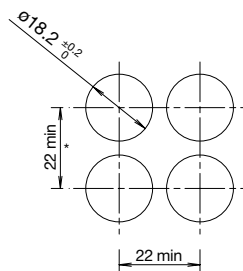
All dimensions in mm.

## Terminal Arrangement (Bottom View)

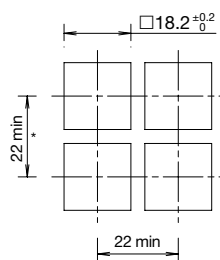


## Mounting Hole Layout

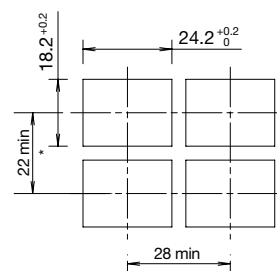
Round (LB6/LB6M)



Square (LB7/LB7M)



Square (LB8/LB8M)



\* 45 mm minimum for switches with guard  
Note: When using rubber boot or terminal cover, see dimensions on page 57 and 58.

- For details on pc board and circuit design, see page 50.
- For details on single board mounting, see page 51.

Illuminated  
Pushbutton

Pilot Light

Pushbutton

Selector

Illuminated  
Selector

Key Selector

Lever Switch

Buzzer

Accessories

Maintenance  
Parts

Panel  
Cut-out

Instructions