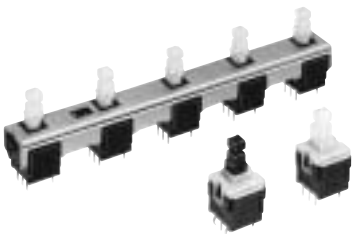


Soft Sound Type Push Switches

Japan

Type: **ESB30 (H=12.5 mm)**

Mechanism low noise by using multiple keys and an individual key



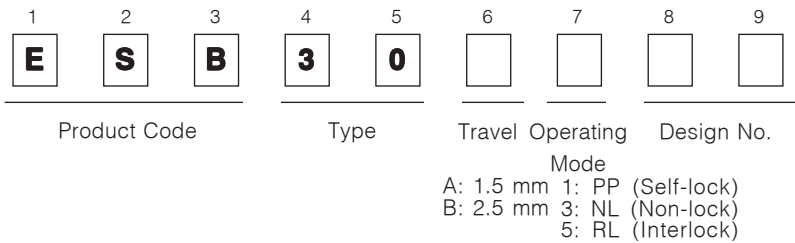
■ Features

- Reduced interlock operation switching noise (-10 dB compared to the current value)
- Simultaneous locking prevention mechanism
- Tactile feedback when operated
- A wide range of acceptable currents from microcomputer control to relay control signals

■ Recommended Applications

- Operation switches for Automobiles (e.g., heater control switches, etc.)
- Secondary power switches for lower voltage in Consumer Electronic Equipment and different types of mode switches

■ Explanation of Part Numbers



■ Major Specifications

|                               |                                                                                |
|-------------------------------|--------------------------------------------------------------------------------|
| Rating                        | 5 μA 3 Vdc to 0.2 A 14 Vdc (Resistive load)                                    |
| Travel                        | Lock Travel=1.5 mm Full Travel=2.5 mm<br>Lock Travel=2.5 mm Full Travel=3.5 mm |
| Mounting Height               | 12.5 mm                                                                        |
| Poles and Throws              | 2-poles 2-throws                                                               |
| Operating Mode                | Self-lock, Non-lock, Interlock                                                 |
| Switching Mode                | Non-shorting                                                                   |
| Operating Force               | 2.0 N±1.0 N, 3.5 N±1.5 N                                                       |
| Minimum Quantity/Packing Unit | 480 pcs. (Tray Pack)                                                           |
| Quantity/Carton               | 2400 pcs.                                                                      |

\* The figure shown above apply only to single-key types. Consult our sales staff for multiple-key types.

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

## ■ Standard Products

| Operating Force | Lever Height | Lock Travel | Operating Mode | Detent  | Terminal Shape |           |
|-----------------|--------------|-------------|----------------|---------|----------------|-----------|
|                 |              |             |                |         | Straight       | Formed    |
| 2 N             | 22.5 mm      | 1.5 mm      | PP             | With    | ESB30A102      | ESB30A103 |
|                 |              |             |                | Without | ESB30A104      | ESB30A105 |
|                 |              |             | NL             | With    | ESB30A302      | ESB30A303 |
|                 |              |             |                | Without | ESB30A304      | ESB30A305 |
|                 | 20.5 mm      | 2.5 mm      | PP             | With    | ESB30B101      | ESB30B106 |
|                 |              |             |                | Without | ESB30B132      | ESB30B102 |
|                 |              |             | NL             | With    | ESB30B301      | ESB30B303 |
|                 |              |             |                | Without | ESB30B304      | ESB30B305 |
| 3 N             | 22.5 mm      | 1.5 mm      | PP             | Without | ESB30A132      | ESB30A133 |
|                 |              |             | NL             |         | ESB30A332      | ESB30A333 |
| 3.5 N           | 20.5 mm      | 2.5 mm      | PP             |         | ESB30B103      | ESB30B133 |
|                 |              |             | NL             |         | ESB30B332      | ESB30B333 |

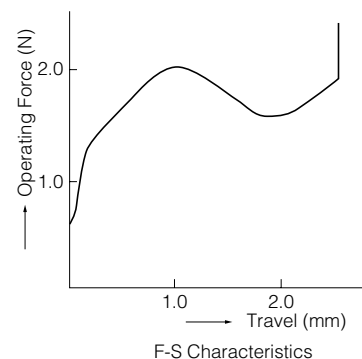
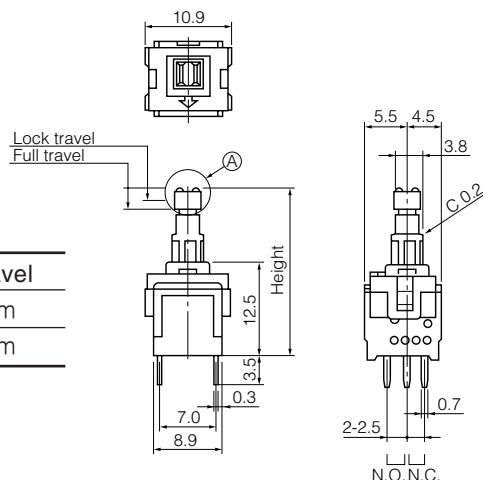
Note: PP=Self-lock, NL=Non-lock

■ Dimensions in mm (not to scale)

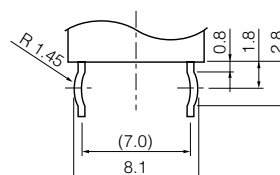
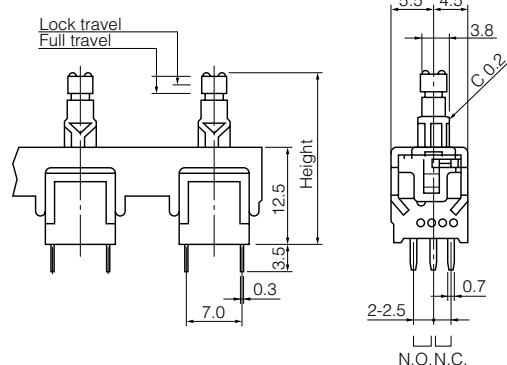
## No. 1

- Single key
- ESB30A102**  
2-poles 2-throws

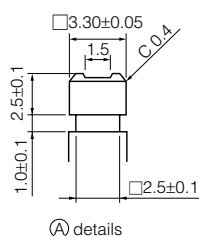
| Lock Travel | Full Travel |
|-------------|-------------|
| 1.5 mm      | 2.5 mm      |
| 2.5 mm      | 3.5 mm      |



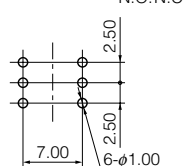
- Multiple unit
- ESB30A502  
2-poles 2-throws



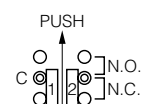
Forming dimension of terminal  
(Except for common terminal)



Ⓐ details



Recommended  
PWB piercing plan  
(Tolerance:±0.05)  
View from terminal side



Circuit diagram  
(View from terminal side)