

# SLIDE LIMIT COUNTER MANUAL (PRESET TYPE)

## Slide Limit Counter (Shut Height Counter) INSTRUCTION MANUAL

Thank you for your purchasing our product.  
Please read this instruction manual carefully before  
using to ensure the correct usage of this product.  
Please keep this instruction manual for future reference.

**WARNING** Misuse of this device may lead to injury  
to the user or damage to the device.

**Customer Service**  
**LINE SEIKI CO., LTD.**  
Address: 37-7 Chuo-cho, 2-Chome  
Meguro-ku, Tokyo 152-0001 Japan  
Contact: Please visit our company website for contact details  
E-mail: webtrade@line.co.jp  
Web: https://www.line-seiki.com

### Safety Precautions

For safe usage of this device, please observe all statements regarding precautions and warnings in this instruction manual.

#### Attention

- Do not drop or subject this device to strong impact.
- Do not use this device on where it will be exposed to solvent, oil and water.
- Do not use or store this device where it will be exposed to direct sunlight, dust, high temperature and high humidity.
- Do not attempt to disassemble or modify this device.

### Setting manner of upper & lower limit

The figure that is right next to the screw hole of each setting ring after rotating each setting wheel is the setting value. (Fig-1)

- Turn off the power supply of machine. Remove screws on the window frame, then remove the window frame, the window plate and the window panel.  
**\* Do not attempt to disassemble other parts except for the window frame, the window plate and the window panel. If disassembled, it may cause malfunction of this counter.**
- Loosen the screws of the setting ring on the side of the figure wheel using a hexagon wrench with a width across flats of 0.89 mm. (Fig-1)
- When setting the upper limit, rotate the main shaft to display the desired setting value.  
**\* When rotating the main shaft with an electric drill, do not rotate it exceeding the maximum rotation speed of this product. If rotated at too high speed, this counter may be damaged.**
- Rotate the upper limit setting ring to place the screw hole right next to the figure in each digit. (Fig-1 : In this figure, the setting value is 4.)
- Tighten the screw of the setting rings using a hexagon wrench.
- When setting the lower limit, rotate the main shaft to display the value obtained by **subtracting 1 from the desired setting value.**
- Rotate the lower limit setting ring to place the screw hole right next to the figure in each digit. (Fig-1 : In this figure, the setting value, obtained by subtracting 1 from the desired value, is 4.)
- Tighten the screws of the setting rings using a hexagon wrench.

The upper/lower limit setting rings for the ones digit (000.0, 0000.0, 000.00) have two screw holes and a larger dent in between (Fig-2 & Fig-3) while other setting rings have only one screw hole (Fig-4).

When you set the limit, please pay attention that the dent is in the right position.

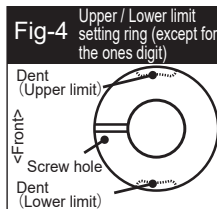
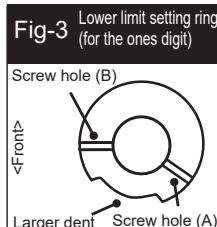
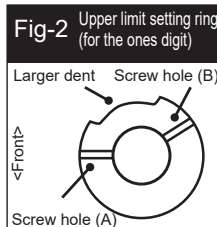
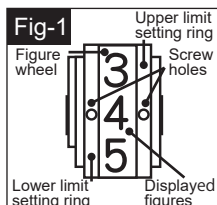
**\* In case of setting the upper limit ring for the ones digit, the setting value is the figure that is right next to the screw hole (A) which should be located below the larger dent. (Fig-2&Fig-1)**

**\* In case of setting the lower limit ring for the ones digit, the setting value, which is obtained by subtracting 1 from the desired value, is the figure right next to the screw hole (B) which should be located above the larger dent. (Fig-3&Fig-1)**

Set a figure except 9 with the upper limit setting ring (with a larger dent) for the ones digit.

Set a figure except 0 with the lower limit setting ring (with a larger dent) for the ones digit.

- Attach the window panel, window plate and window frame to their original positions, and tighten the screws on the window frame.



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- Available setting digits Setting is not available on the last 1 digit or 2 digits. (Please refer to following list and Fig-5.)

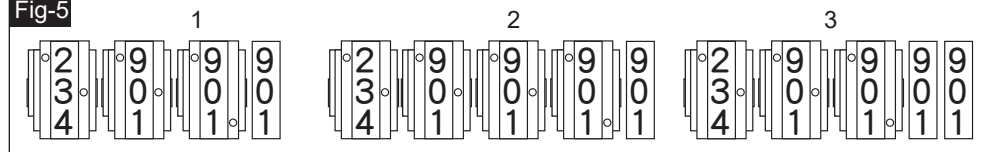
4 digits	Setting is available on upper 3 digits.	Setting is not available on the last 1 digit.	Refer to Fig-5.1
5 digits	Setting is available on upper 4 digits.	Setting is not available on the last 1 digit.	Refer to Fig-5.2
	Setting is available on upper 3 digits.	Setting is not available on the last 2 digits.	Refer to Fig-5.3

Only the setting rings for the ones digit have larger dents.

- Example.

Upper Limit	In case it outputs at 301.0.(Setting is available on upper 3 digits in 4 digits counter.)	Refer to Fig-5.1
	In case it outputs at 3001.0.(Setting is available on upper 4 digits in 5 digits counter.)	Refer to Fig-5.2
	In case it outputs at 301.00.(Setting is available on upper 3 digits in 5 digits counter.)	Refer to Fig-5.3
Lower Limit	In case it outputs at 300.0.(Setting is available on upper 3 digits in 4 digits counter.)	Refer to Fig-5.1
	In case it outputs at 3000.0.(Setting is available on upper 4 digits in 5 digits counter.)	Refer to Fig-5.2
	In case it outputs at 300.00.(Setting is available on upper 3 digits in 5 digits counter.)	Refer to Fig-5.3

Fig-5



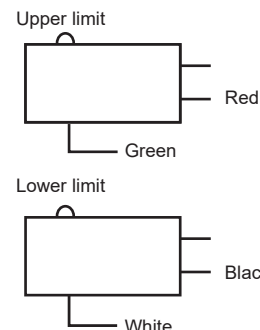
- Output status of microswitches

Upper limit setting ring	In case of 301.0	Microswitch is OFF between 301.0 and 302.9.
	In case of 3001.0	Microswitch is OFF between 3001.0 and 3002.9.
	In case of 301.00	Microswitch is OFF between 301.00 and 302.99.
Lower limit setting ring	In case of 299.0	Microswitch is OFF between 299.9 and 298.0.
	In case of 2999.0	Microswitch is OFF between 2999.9 and 2998.0.
	In case of 299.00	Microswitch is OFF between 299.99 and 298.00.

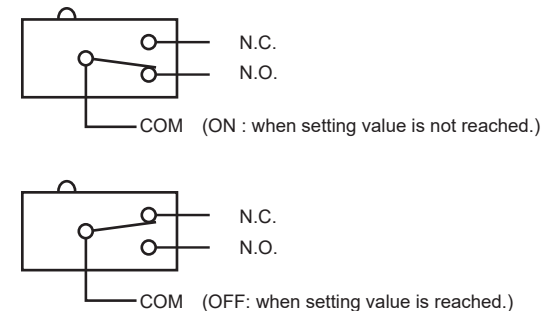
### Wiring

Microswitches are integrated inside the counter and they output through cabtyre cable (4 cores).

- Wiring diagram of microswitch



- Contact position of microswitch (Common to Upper & Lower)



Capacity of microswitch  
AC250V-15A, DC125V-0.6A, DC250V-0.3A