## Position Digital Indicators - Overview

## Features

- Digital Display is easy to read.

Positioning and indexing with Feed Screw is easy.
It prevents wrong setting caused by error in display indication when the screw mechanism is changed at the factory.

- Various Lineup

MISUMI Digital Position Indicators are designed to use in combination with our Lead Screws. Two sizes of display, three mounting types, two body colors are available. 4-Digit and 5-Digit indication and With Counter Reset are available.

|  | Standard Spindle | Front Spindle | Vertical Spindle |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Suitable for mounting at lower than the operator's eye-level. | Suitable for mounting at operator's eye-level. | Suitable for mounting on vertically configured screw feed mechanisms. | Counter Indication |
|  |  |  |  | - On the counter initialized to the "all zeros" state, insert the wrench and rotate it counter-clockwise. The counter is switched to the "all 9s" state. |
| (ұәзәу дәұипоэ ұпочұ!м) ұэедшол |  |  |  | -The leftmost position is blank on the 4-digit counter. <br> - On the counter initiaized to the "all zeros" state, insert the wrench and rotate it counter-clockwise. The counter is switched to the "all 9s" state. |

- Large

| Color |  | Display Digits | Feed Screw Pitch (Display <br> Number per Revolution) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Orange | Silver | 5-Digit | 3 | 4 | 5 | 6 |

- With Counter Reset
- Applicable to mounting shaft end dia.12, 14, 15, 16, 17 and 20.
* When used with a lead screw with the same pitch, display number and pitch number will be the same.
- Compact

| Color |  | Display Digits |  |  |  | Feed Screw Pitch (Display <br> Number per Revolution) |  |  |
| :---: | :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Orange | Silver | 4-Digit | 5-Digit | 2 | 3 | 4 | 5 | 6 |

- 4-Digit Type and 5-Digit Type are available for the same size.
- Applicable to mounting shaft end dia. 6, 8, 10, 12 and 14.
* When used with a lead screw with the same pitch, display number and pitch number will be the same.
- Color

Orange


Color used to make the counter more noticeable when installed.

## Usage

Can be used to confirm the present setting position such as the transfer of table that utilizes screw feed mechanism and the slide adjustment. Silver Conventional Method : Reading errors occur.

When Indicator is Used : Digital indication reduces the reading errors


Color used to make the counter unnoticeable when installed.


App. Example (2)


## How to Mount: Large



## (2)Caution

Do not move the position indicator with set screws installed on the shaft Otherwise, the axial load is applied and thereby, may damage the indicator

How to Mount: Compact

(Not necessary if a clamp plate is used.)


Counter Reset Procedures (Only for Large Type)


## (:)Caution

Turning the wrench more than necessary may cause damages on the unit. Turn the wrench slowly.
Please note that there should be space for hex wrench.
When all zeros are not indicated on the counter panel, even if counter reset is tried, retry counter reset, so the counter is initialized to the all zeros state.

```
00000 Completed successfully, because the all zeros are indicated.
0000 F Failed, because all the zeros are not indicated. => Repeat Counter Reset until the counter is initialized to the all zeros state.
```


## Notes

- The count goes up depending on turning distance, as the screw shaft (lead screw, slide screw, etc.) is turned clockwise. The count goes down as the screw shaft is turned counterclockwise.
- The rotational speed at the start-up should not exceed $1 / 3$ of maximum rotational speed (rpm).
- Must not be abruptly accelerated or decelerated.
- Do not use a electric screwdriver. It may cause damages.
- Do not use when shafts move to the thrust (shaft) direction. It may cause damages.
- Insert a screw shaft into the indicator in such a way that it is positioned quite vertically to the I.D. center of the indicator. Otherwise, malfunction may occur.



## Selection of Position Indicator Collar

(P)Position Indicator (2) has a fixed I.D. (Large Ø20, Compact Ø14)

Shafts (3) whose 0.D. is less than 20 mm (Large) / 14 mm (Compact) are used with a collar (1) attached.
Indicator Collar Details P.701, 702
$\square$ Indicator Collar Selection Chart

| Indicator <br> Shaft O.D. | Indicicator <br> Altion PartNumber |
| :---: | :---: |
| $\emptyset 6$ | -CSE6 |
| $\emptyset 8$ | -CSE8 |
| $\emptyset 10$ | -CSE10 |
| $\emptyset 12$ | -CSE12 |
| $\emptyset 14$ | -CSE14 |
| $\emptyset 15$ | -CSE15 |
| $\emptyset 16$ | -CSE16 |
| $\emptyset 17$ | -CSE17 |



[^0]
[^0]:    (1)Indicator Collar
    (2)Digital Position Indicators (Large Ø20, Compact Ø14)
    (3)Shaft O.D.

