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	
Mounting Position	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
Large (with Counter Reset)	123401	12340	9999	One tenth 5-Digit Type 0 1 2 3 0 4.1 5.8 - On the counter initialized to the "all zeros" state, insert the wrench and rotate it counter-clockwise. The counter is switched to the "all 8s" state.
Compact (without Counter Reset)		1230	00001 AAAAA	One tenth 1/100 5-Digit Type 01230 3.6 5.2 - The leftmost position is blank on the 4-digit counter On the counter initialized to the "all zeros" state, insert the wrench and rotate it counter. Switched to the "all 9s" state.

- Color
 Display Digits
 Feed Screw Pitch (Display 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 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



Color used to make the counter more noticeable when installed.

1230

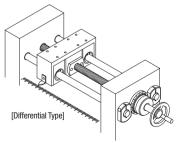
Usage

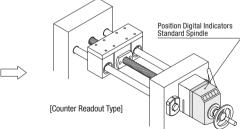
Large

Can be used to confirm the present setting position such as the transfer of table that utilizes screw feed mechanism and the slide adjustment.

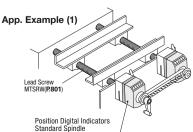
Conventional Method: Reading errors occur.

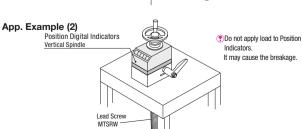
When Indicator is Used: Digital indication reduces the reading errors.



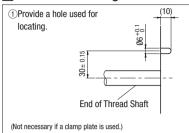






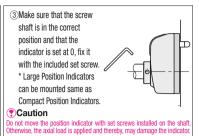


■How to Mount: Large

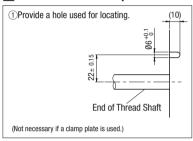


(2)Mount the included cushion sheet and pass it through the screw shaft.

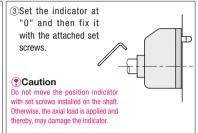
Cushion Sheet



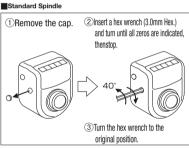
How to Mount: Compact

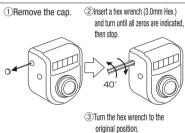


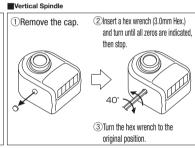
(2)Mount the included cushion sheet and pass it through the screw shaft. Cushion Sheet



Counter Reset Procedures (Only for Large Type) Front Spindle







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.

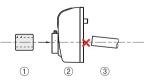
When all zeros are not indicated on the counter panel, even if counter reset is tried, retry counter reset, so the counter is initialized to the all zeros state.

0 0 0 0 Completed successfully, because the all zeros are indicated.

000 Y 0 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.



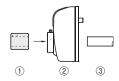
Selection of Position Indicator Collar

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

Shafts ③ whose O.D. is less than 20mm (Large) / 14mm (Compact) are used with a collar ① attached. Indicator Collar Details R.701, 702

■Indicator Collar Selection Chart

Indicato	r Indicator
Shaft O.D	Alteration Part Number
Ø6	-CSE6
Ø8	-CSE8
Ø10	-CSE10
012	-CSE12
014	-CSE14
Ø15	-CSE15
Ø16	-CSE16
Ø17	-CSE17



- 1)Indicator Collar
- ②Digital Position Indicators (Large Ø20, Compact Ø14)
- 3Shaft 0.D.