



Accuracy: Refer to the list of specifications
Resolution: 0.01mm, 0.001mm, .0005"/0.01mm,
.0001"/0.001mm or .00005"/0.001mm
Display: LCD
Length standard: ABSOLUTE electrostatic capacitance-type
linear encoder
Max. response speed: Unlimited
Measuring force: Refer to the list of specifications
Battery: SR44 (1 pc.), **938882**
Battery life: Approx. 20,000 hours under normal use
Dust/Water protection level: IP42 (IP53: **543-794B**,
543-795B, **543-796B**)
Inspection certificate is included.

Alarm: Low voltage, Counting value composition error, Over-flow error

905338: SPC cable (40" / 1m)
905409: SPC cable (80" / 2m)
21EZA198: Spindle lifting lever (ISO/IIS type)
21EZA199: Spindle lifting lever (ANSI/VAGD type)
540774: Spindle lifting cable (stroke: .4" / 10mm)
21EZA105 Lifting knob (mm)
21EZA150 Lifting knob (inch)
125317: Spare rubber boot (for dust-proof type)
_____: Backs (See page F-33.)
_____: Contact points (See page F-34.)

SERIES 543 — with Simple Design

- After the initial zero-setting with the Origin button, the repeated absolute positioning is no longer necessary over entire battery life.
- Unlimited response speed eliminates over-speed errors



Inch/Metric	Stem dia. 3/8", #4-48 UNF Thread			ISO/JIS type	ANSI/AGD type		
Resolution	Range	Order No.		Model	Accuracy	Measuring force	Remarks
		w/ lug back	w/ flat-back				
.00005"/0.001mm	.5" / 12.7mm	543-792	543-792B	ID-S112EX	±.0001"	1.5N or less	—
.00005"/0.001mm	.5" / 12.7mm	543-796	543-796B	ID-S112PEX	±.0001"	2.5N	Dust-proof
.0001"/0.001mm	.5" / 12.7mm	543-793	543-793B	ID-S112TX	±.0001"	1.5N or less	—
.0005"/0.01mm	.5" / 12.7mm	543-783	543-783B	ID-S1012EX	±.0010"	1.5N or less	—

Resolution	Range	Order No.		Model	Accuracy	Measuring force	Remarks
		w/ lug back	w/ flat-back				
.00005"/0.001mm	.5" / 12.7mm	543-791	543-791B	ID-S112MX	±.0001"	1.5N or less	—
.00005"/0.001mm	.5" / 12.7mm	543-795	543-795B	ID-S112PMX	±.0001"	2.5N or less	Dust-proof
.0005"/0.01mm	.5" / 12.7mm	543-782	543-782B	ID-S1012MX	±.0008"	1.5N or less	—

Resolution	Range	Order No.		Model	Accuracy	Measuring force	Remarks
		w/ lug back	w/ flat-back				
0.001mm	12.7mm	543-790	543-790B	ID-S112X	0.003mm	1.5N or less	—
0.001mm	12.7mm	543-794	543-794B	ID-S112PX	0.003mm	2.5N or less	Dust-proof
0.01mm	12.7mm	543-781	543-781B	ID-S1012X	0.02mm	1.5N or less	—

Unit: mm

Technical drawing of the IP-53 model showing front and side views with dimensions.

Front View Dimensions:

- Top flange outer diameter: $\phi 10.9$
- Top flange thickness: 50.1
- Top flange inner diameter: $\phi 8.0_{-0.03}^{+0.00}$
- Top flange to main body distance: 54.4
- Main body diameter: $\phi 59$
- Main body length: 46.5
- Main body to bottom flange distance: 43.5
- Bottom flange outer diameter: $\phi 54$
- Bottom flange thickness: 6
- Bottom flange inner diameter: $\phi 16$
- Bottom flange to main body distance: 19.9
- Bottom flange to main body distance (alternative): 20
- Bottom flange to main body distance (alternative): 7.6
- Bottom flange to main body distance (alternative): 17
- Bottom flange to main body distance (alternative): 21.2
- Bottom flange to main body distance (alternative): 7.3
- Bottom flange to main body distance (alternative): 14
- Bottom flange to main body distance (alternative): 37.2
- Bottom flange to main body distance (alternative): 7.3
- Bottom flange to main body distance (alternative): 13.3

Side View Dimensions:

- Top flange outer diameter: $\phi 10.9$
- Top flange thickness: 50.1
- Top flange inner diameter: $\phi 8.0_{-0.03}^{+0.00}$
- Top flange to main body distance: 54.4
- Main body diameter: $\phi 59$
- Main body length: 46.5
- Main body to bottom flange distance: 43.5
- Bottom flange outer diameter: $\phi 54$
- Bottom flange thickness: 6
- Bottom flange inner diameter: $\phi 16$
- Bottom flange to main body distance: 19.9
- Bottom flange to main body distance (alternative): 20
- Bottom flange to main body distance (alternative): 7.6
- Bottom flange to main body distance (alternative): 17
- Bottom flange to main body distance (alternative): 21.2
- Bottom flange to main body distance (alternative): 7.3
- Bottom flange to main body distance (alternative): 14
- Bottom flange to main body distance (alternative): 37.2
- Bottom flange to main body distance (alternative): 7.3
- Bottom flange to main body distance (alternative): 13.3

IP-53 model

Contact point
M2.5x0.45

Note 1: Dimensions of the inch (ANSI/AGD Type) dial indicator partly differ from those of the metric (ISO/JIS Type) indicator.

Note 2: Inch (ANSI/AGD Type) dial indicators are provided with a stem of 3/8" dia. and #4-48UNF thread mount for the contact point.