



**Technical Explanation**

**Measurement procedure**



A consistently low measuring force can be guaranteed by only taking measurements when the pointer is between the two fiducial lines.

**Technical Data**

- Resolution: 0.01 mm or 0.0005 in/0.01 mm
- Display: LCD
- Scale type: ABSOLUTE electromagnetic inductive linear encoder
- Jaw retraction: 0.3 mm
- Max. response speed: Unlimited
- Battery: SR44 (1 pc.), **938882**, for initial operational checks (standard accessory)
- Battery life: Approx. 3.5 years under normal use

**Optional Accessories**

For details, refer to page A-21.

- **959143**: Data hold unit
- Connecting cables for **IT / DP / MUX**
  - **959149**: SPC cable with data button (1 m)
  - **959150**: SPC cable with data button (2 m)
- USB Input Tool Direct
  - **06AFM380C**: SPC cable for **USB-ITN-C** (2 m)
- Connecting cables for **U-WAVE-T**
  - **02AZD790A**: SPC cable with data button (160 mm)
  - **02AZE140A**: SPC cable for foot switch

**Wireless Data Output U-WAVE™**

- **U-WAVE-TC**: **264-620** (IP67 type)  
**264-621** (Buzzer type)
  - **U-WAVE-TCB Transmitter (Mitutoyo Bluetooth® U-WAVE)**  
**264-624** (IP67 type)  
**264-625** (Buzzer type)
- Refer to page A-10 for details.
- Connecting unit for **U-WAVE-TC/TCB**  
**02AZF300** (Buzzer type)
- Note: IP67 model is water/dust-proofed suitable for the factory floor.  
Buzzer type is not water/dust-proofed.  
Refer to pages A-10 and A-12 for details.

**ABSOLUTE Low Force Caliper SERIES 573**

- An ABSOLUTE electromagnetic induction linear encoder system is incorporated.
- Enables accurate measurement of plastic parts and other workpieces that are difficult to measure with conventional calipers due to deformation.
- Allows fine feeding easily by using thumb roller.
- Displacement of main scale jaw is 0.3 mm.
- Measuring force: 0.5 N to 1.0 N
- Absolute type. (Refer to page D-6 for a description of Absolute measurement.) Slider action is smooth, firm and comfortable.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. (Refer to page A-3.)



573-191-30

**SPECIFICATIONS**

Metric			
Order No.	Range (mm)	Maximum permissible error (mm)*	
		EMPE	SMPE
<b>573-191-30</b>	0 - 180	±0.05	

Inch / Metric			
Order No.	Range (in)	Maximum permissible error (in)*	
		EMPE	SMPE
<b>573-291-30</b>	0 - 7	±0.002	

\* Partial Surface Contact Error, EMPE and Shift Error, SMPE are terms (notations) used in ISO 13385-1:2019. Note: Dedicated for outside measurement (depth bar is not fitted).

**DIMENSIONS**

