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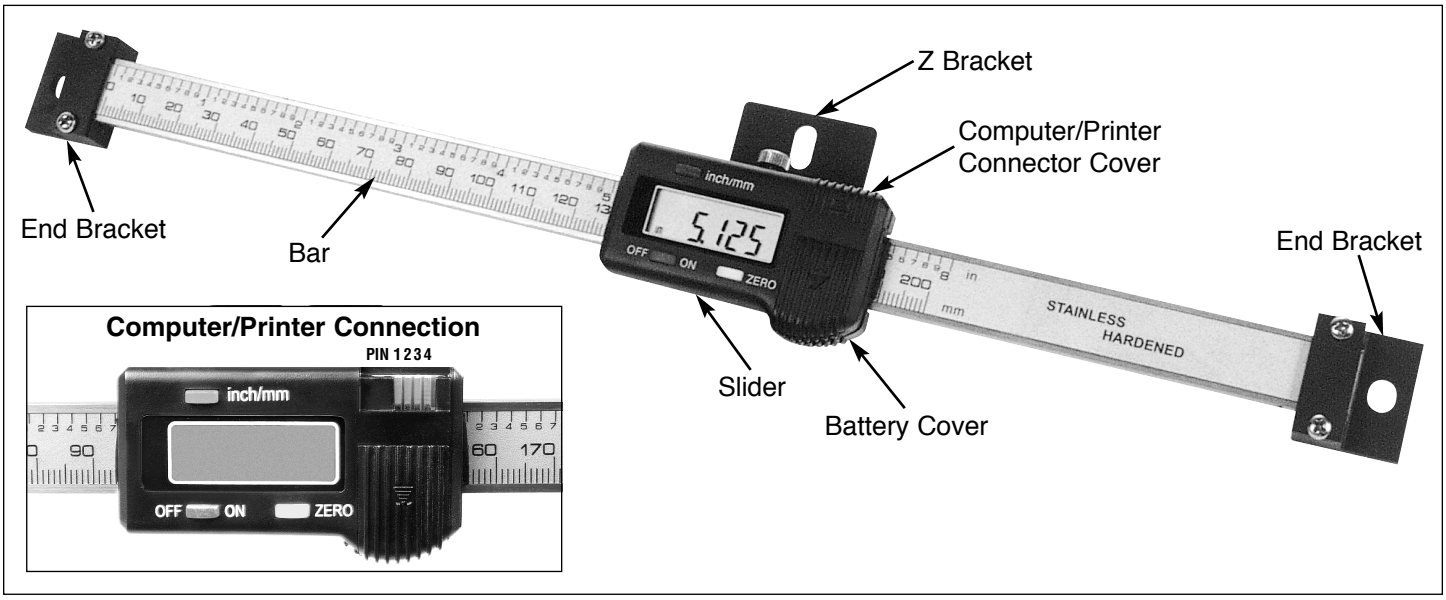
#83411 EIGHT-INCH DIGITAL SCALE INSTRUCTIONS

Introduction

This digital scale precisely measures the movement of the slider along the bar. Total range of measurement is 8" with a resolution of .0005".

Refer to the diagram below for part identification:



Precautions

- Use a clean, dry cloth to keep the printed face of the bar clean and dry.
- Never apply an electrical charge to any part of the unit (such as with an electric engraving pen) or you may damage the electronic circuitry contained in the slider.
- Be sure that the scale is mounted parallel to the direction of movement; otherwise, the digital scale may be damaged.
- Be careful that the screws which secure the Z-bracket to the back plate of the slider do not touch the bar; otherwise, the digital scale may be damaged.
- Total travel of the slider must be limited to 8"; otherwise, the digital scale may be damaged.

Installation

- Use the two end brackets to mount the bar to the non-moving part of your machine or fixture.
- Use the Z-bracket to attach the slider to the moving part of your machine or fixture.
- All mountings must be tight-fitting so that backlash does not affect the accuracy of measurement.

Functions

- Pressing the OFF/ON button energizes the display.
- Pressing the inch/mm button changes unit of measurement.
- Pressing the ZERO button resets the display at any position along the bar.
- If the display flashes or doesn't appear at all after pressing the ON button, replace the battery with a fresh SR44 cell or equivalent ("+" side faces out).

Computer/Printer Interface

A cable may be used to connect the scale to a computer or printer:

Interface: Synchronous series; binary code: 24 bits. Each datum will be sent twice. The cycle is 300ms in slow reading state (it can save power in this state) or 20ms in fast reading state. Transmitting time: 0.5ms. Connections are located under the small cover positioned above the battery cover: (left to right) +power, Data, Clock Pulse, -power. Pulse range of data: Datum level <0.2v, Level "1">1.3v. Clock pulse: 90 Hz, effective for high electrical level. Fast and slow reading can be interchanged by inserting a FAST READING plug in the interface. Once in the fast reading state, some button functions will have no effect; e.g.: Zero setting cannot be done in fast reading until changed to slow reading state. Set zero, then return to fast reading set.