

## N-Micro

Cantilever Load Cells



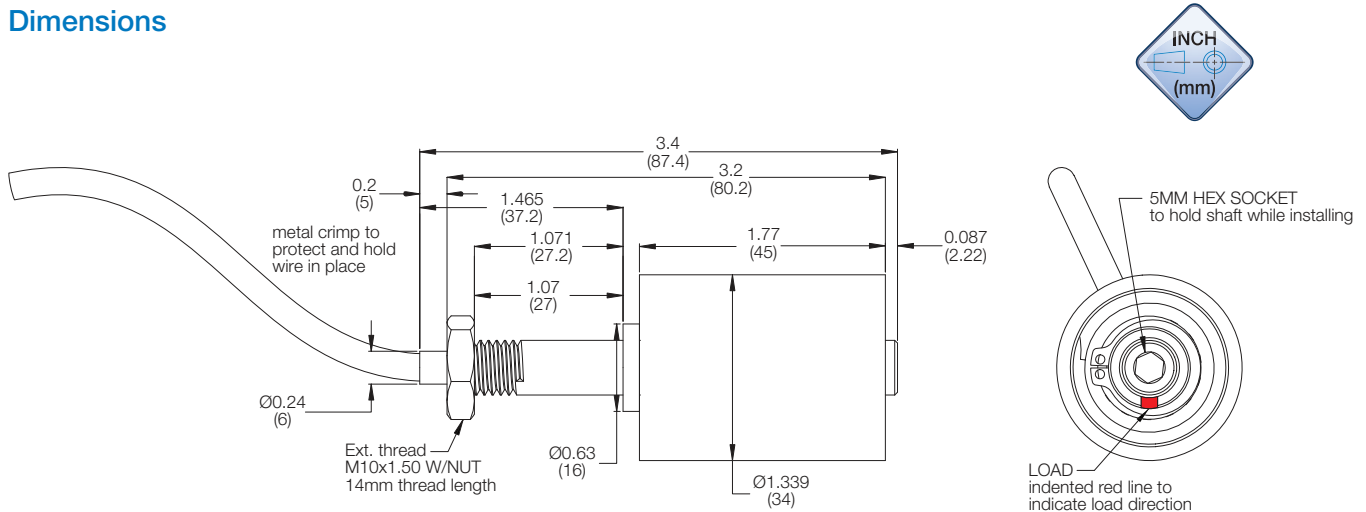
### Montalvo N-Micro Load Cells

Narrow web, light tension applications require precise, superior tension control measurement. Montalvo's N-Micro load cell, commonly used in applications producing subsea cables, labels, tapes, and more, delivers the higher quality results you rely on for higher quality end product. Fully customizable with different roller and shaft lengths, diameters, and finishes, the Micro-N can even be adapted to fit the requirements of other applications not mentioned, but needing lighter tension, roller-based load cells. Tell us what you need and we can make the needed modifications.

### Features and Benefits

- ▶ Designed for low tension, narrow web applications
- ▶ Highly customizable and adaptable
- ▶ Cost effect tension control solution
- ▶ Compatible with Montalvo controllers/amplifiers and PLC/other controllers/amplifiers
- ▶ High degree of linearity and repeatability
- ▶ High performance, low drag bearings
- ▶ Full bridge semiconductor strain gauge sensing





## Dimensions



## Specifications

Excitation .....  $\pm 2.5$  VDC, 5 VDC  
 Output ..... 25 mV/V, nominal @ full load  
 Gauge Resistance ..... 80-130  $\Omega$   
 Type ..... full bridge semiconductor strain gauge  
 Non-Repeatability .....  $\pm 1\%$  full span  
 Non-Linearity and Hysteresis (combined) .....  $\pm 1.5\%$  full span  
 Nominal Force  $F_{nom}$  lb(N)  
 (based on  $180^\circ$  wrap angle) ..... 6(25), 18(80), 27(120)  
 Note: It is recommended that Montalvo be contacted to ensure proper sizing.  
 Overload ..... 2x load rating  
 Axial Overload Protection ..... 50% full load

Classification ..... IP54  
 Temperature  $^\circ\text{F}$  ( $^\circ\text{C}$ )  
 Operating Range ..... -4 to +150 (-20 to +70)  
 Coefficient (% per degree) ..... 0.02 (0.01) typ.  
 Deflection in (mm) ..... 0.004 to 0.012 (0.1 to 0.3)  
 Shaft Material ..... stainless steel  
 Roller Material ..... aluminum  
 Bearings ..... closed  
 Options / custom designs  
 Roller ..... material/coating  
 Roller ..... length/diameter  
 Load rating ..... relative to design options  
 Cable ..... customer specified

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EST. 1947

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Better Web Control®