

**U4**

## Tension Controller

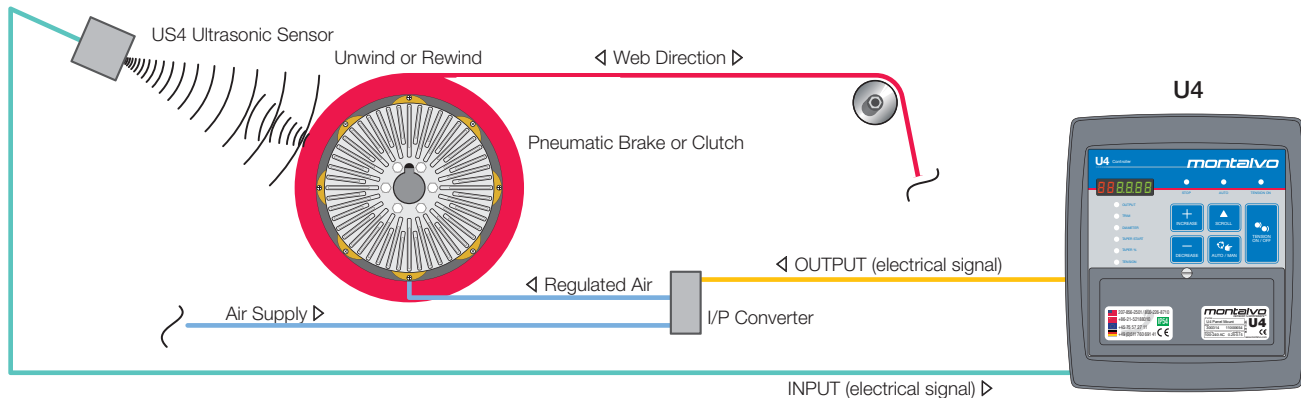
**Montalvo U4 Tension Controller**

The U4 brings advanced features (typically found only in closed-loop control systems) such as soft start, anti-coast, and taper tension, to open-loop tension control. Compatible with a variety of inputs the U4 ensures accurate tension control from full roll to core.

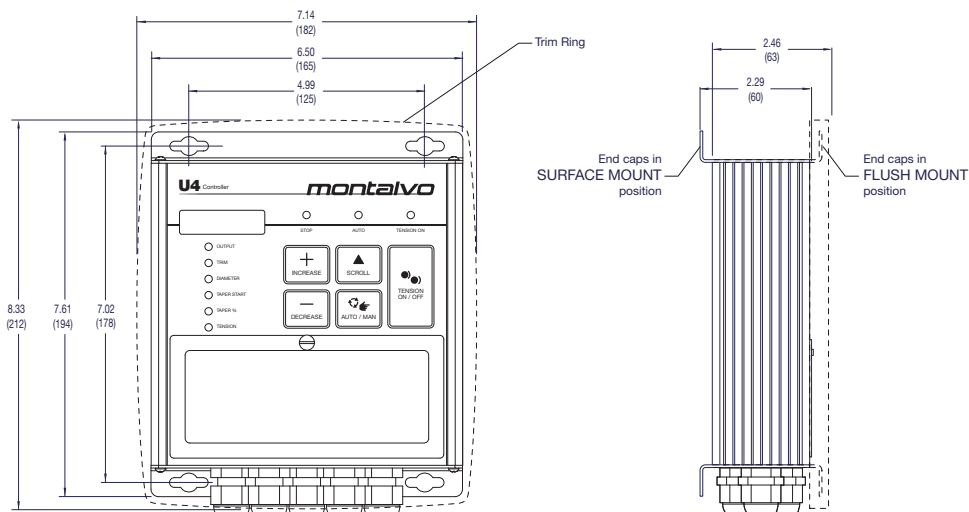
**Features & Benefits**

- ▶ **Unwind or Rewind Zone Functionality**
  - Soft Start: eliminates shocks to the web on startup
  - Anti-coast: prevents web tension from dropping on stop
  - Taper: builds excellent rolls while eliminating telescoping
  - Splice: maintains tension for more successful splices
- ▶ **Input Compatibility** - ultra-sonic, laser, proximity switch or rider arm
- ▶ **Output Compatibility** - pneumatic or electric brakes
- ▶ **Selectable Output Signals** - 0-10 V or 4-20 mA
- ▶ **Remote Control** - set-up, program and monitor via integrated USB port to PC
- ▶ **Set It & Forget It** - set-up parameters eliminate constant monitoring
- ▶ **Programmable Diameter Alarms** - high & low for slowing & stopping a roll
- ▶ **Store Tension Parameters** - save up to 9 settings for immediate recall
- ▶ **Multiple Mounting Options** - install as either panel or surface mount

## How it works



## Dimensions



## Specifications

### Power Supply

Standard..... 100-240 VAC 50/60 Hz  
 Optional..... 24VDC

Max. Power Consumption (AC version)..... 0.25-0.15A

Max. Power Consumption (DC version) ..... 1A

### Output

Control Signal/Regulator (I/P)..... 4-20mA

Control Signal/Regulator (E/P)..... 0-10VDC

Meter..... 0-10VDC

Alarm 1 (Digital)..... 24VDC

Alarm 2 (Digital)..... 24VDC

Accessory (Ultrasonic or Proximity sensors)..... 24VDC

### Communications

Connector ..... USB Type B

### Inputs Supported

Ultrasonic..... Yes

Laser..... Yes

Proximity Switch..... Yes

Rider Arm..... Yes

CE Declaration ..... CE Compliant

Classification ..... IP54

Installation Category..... II (IEC 664)

Operating Temperature Range..... 14 to 122°F (-10 to 50°C)

### Enclosure

Surface mount ..... 6.50 x 2.29 x 7.61 in (165 x 60 x 194 mm)

Flush mount (w/trim ring)..... 7.14 x 2.46 x 8.33 in (182 x 63 x 212 mm )

Weight..... 1.2 lb (0.55 kg)

### Related Products

Ultrasonic Sensor..... Montalvo US4

Proximity Switch..... Montalvo PN: 11000531

Electro / Pneumatic Converter..... Montalvo MPC-4

Voltage Converter..... Montalvo MVC-2

207-856-2501 / 800-226-8710  
 +86-21-52188010  
 +45 75 57 27 11  
 +49 (0)511 760 691 41

The Montalvo Corporation

EST. 1947

# montalvo

Better Web Control®

50 Hutcherson Drive, Gorham, Maine 04038 USA

Fax: 1-800-644-5097 / 207-856-2509

1-800-226-8710 / info@montalvo.com / www.montalvo.com

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