



- On-line HELP messages*
- Remote setpoint capability*
- Sample, hold & ratio splice function*
- User adjustable soft start & anti-coast*
- Rewind taper without additional input*
- Semi-automatic calibration & control tuning*
- “Bumpless” transfer-auto/manual & manual/auto*
- Works with semiconductor, foil gauge or DC LVDT load cells*

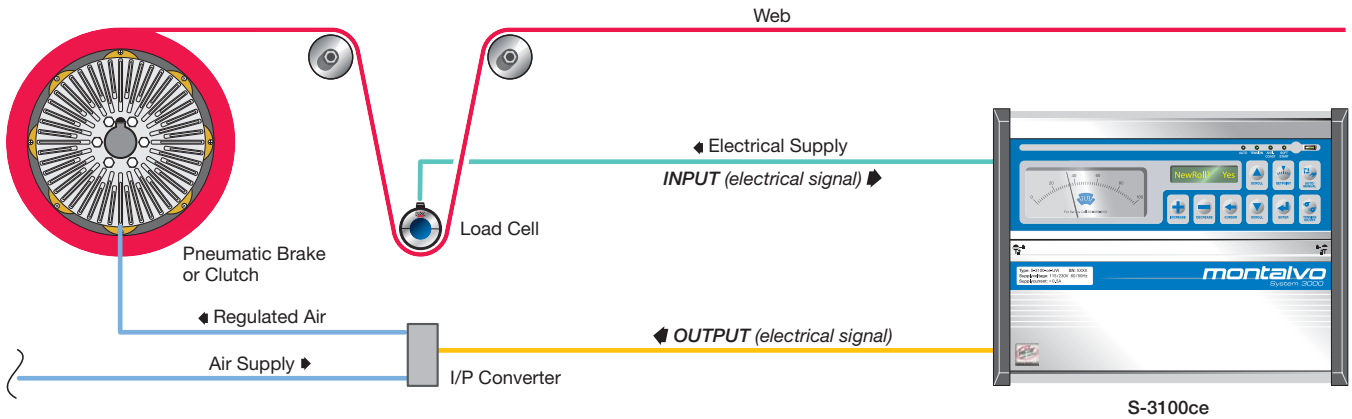
IP54 CE

System 3000™

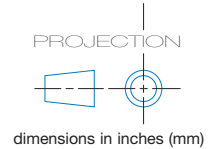
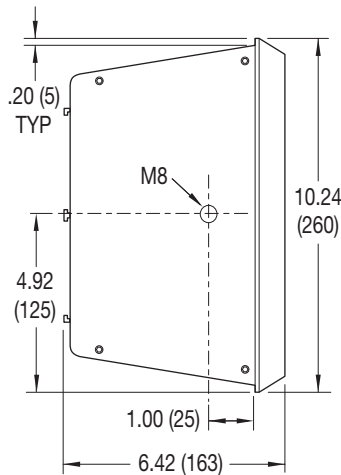
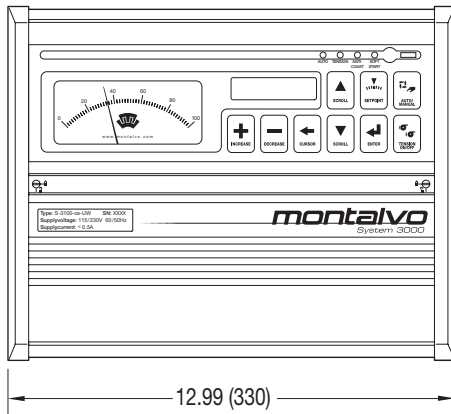
S-3100ce Digital Tension Controller

Montalvo's digital S-3100ce closed loop tension controller employs a proprietary *Diamatic* control algorithm which insures uniform control response regardless of roll diameter. It may be used in unwind and rewind tension applications and provides fast, precise tension control. Users may select the performance features best suited to an application from a wide variety of control tools. S-3100ce's non-volatile memory stores all settings in the event of a power failure. In addition, the control can store and recall up to fifteen sets of control parameters for different materials. LEDs provide status information on Tension On/Off, Auto/Manual, Soft Start and Anti-Coast. All key settings may be displayed in imperial or metric units.

Typical Application



Specifications



Electrical

Power In	115/230 V, 60/50 Hz, 0.2 A
Output (control signal-factory set)	4-20 mA, 0-10 V
Load Cell Supply	± 2.5 VDC
System Accuracy	1 to 3% TYP

Other

Standard Meter Scales	0-5, 10, 25, 50, 100, 150, 250, 500, 1000
Ambient Temperature	14 to 122° (-10 to 50°C)
Classification	IP54
Weight	~ 10 lb (4.5 kg)
Size (WxDxH)	12.99 x 6.42 x 10.24 (330 x 163 x 260)
Cut-Out (WxH) Cabinet	12.72 x 9.96 (323 x 253)
Cut-Out Tolerance	+ .063 / -.000 (+ 2 / -0)
Dimensions	inches (mm)

Features

Tension Set/Display	Total or PLI
Unwind Soft Start	Yes
Anti-Coast	Yes
Jog (requires only 1 external dry contact)	Yes
Manual	Yes
Splice	Yes
Rewind Taper (requires no external sensors)	Yes
Inertia Start	Yes
Inertia Stop	Yes
Splice	Yes
Electro/Pneumatic Converter Supported	Montalvo MPC-4ce
Voltage Converter Supported	Montalvo MVC-2

ADDITIONAL NOTES: The required input signal is supplied by strain gauge or DC LVDT web load cells. The S-3100ce can be interfaced with electric and pneumatic brakes, clutches, AC or DC drives. Options include web break detection and remote tension setting by potentiometer or PLC. The S-3100ce features both analog and digital display as well as a flexible mounting system which may be surface mounted, suspended or table top mounted.

