



- Range expander*
- Web break detection*
- Inertia compensation*
- Fieldbus communication*
- Transferable memory card*
- Digital parameter handling*
- Sample, hold and ratio splice function*

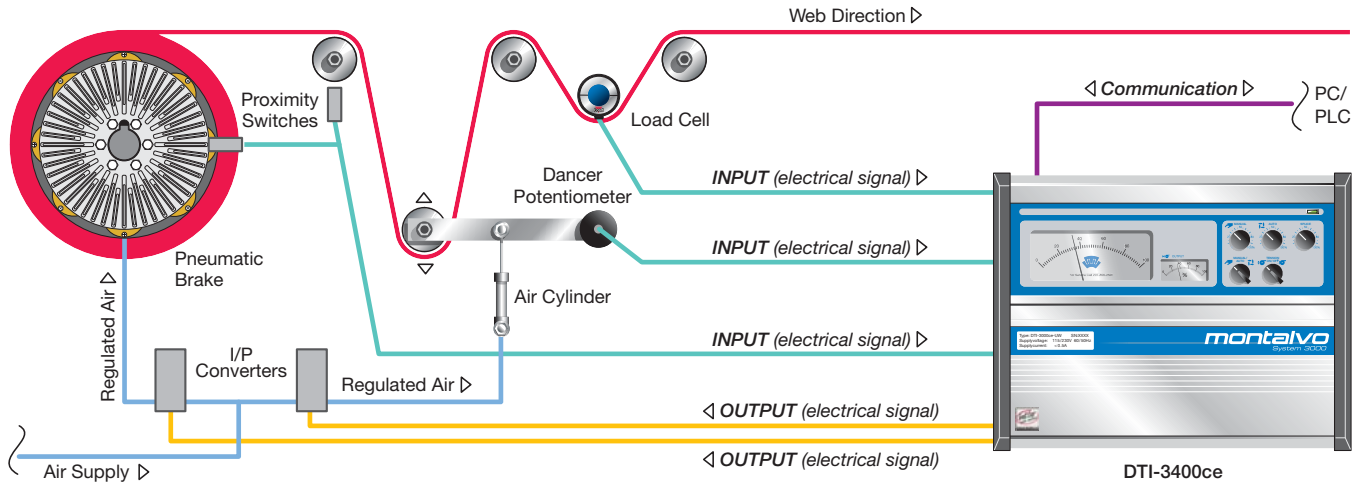


**System 3000™**

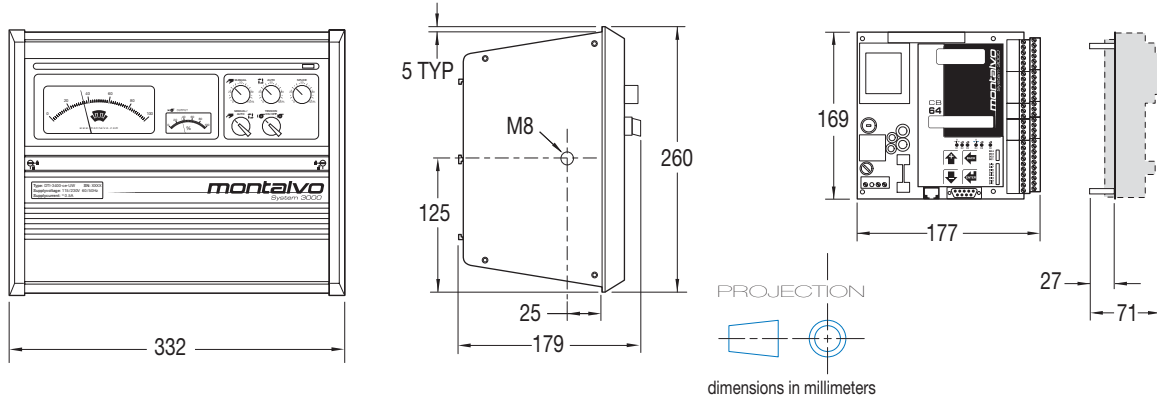
### **DTI-3400ce Dancer Controller / Tension Indicator**

The Montalvo DTI-3400ce dancer controller with web tension indication was developed to provide a higher standard of tension control by simultaneously processing the signals from a dancer roller and a pair of load cells. It combines the storage and shock absorption capabilities of a dancer with the accurate, repeatable results of a load cell system. Control is provided by "Progressive PID" circuitry, which regulates the output to the unwind brake and maintains the position of the dancer arm. The signal provided by the load cells is displayed on the analog tension meter. Actual web tension is used by the operator to adjust the load on the dancer arm and thereby maintain the desired tension. Required inputs are taken from the dancer potentiometer, the load cells and machine stop/start contacts. Other features include: digital diagnostics, a web break output and, when combined with Montalvo's P-3000RE, a cycling range expander with 2, 3 or 4 valves.

Typical Application



Specifications



**Electrical**

AC Input .....	115 or 230 VAC $\pm$ 10% (IEC-60204-1) 48 to 62 Hz
Fuse Size (115 V) .....	160 mA T (slow-blowing type)
Fuse Size (230 V) .....	80 mA T (slow-blowing type)
Overvoltage Category .....	II (IEC 664)
Test Voltage.....	3.75 kV in 1 min. primary to secondary
Max Power Consumption .....	12 VA
Max External Input Fuse .....	10 A
Noise Immunity .....	EN 50082-2 industrial
Noise Emission .....	EN 50081-1
Load Cell Supply .....	$\pm$ 2.5 VDC $\pm$ 5%
Load Cell Input .....	0 to $\pm$ 250 mVDC
Load Cell Input (optional) .....	0 to 10 VDC
Zero Range (tare) .....	50% of load cell rating
Zero Range (tare) (Dancer).....	50% of potentiometer rating
Calibration Range .....	11 to 480
Calibration Range (Dancer Gain) .....	1.5 to 42
Regulator Outputs .....	0 to 10 VDC, Maximum load 5 mA
.....	4 to 20 mA / 0 to 20 mA, RL = 0 to 1000 $\Omega$
Meter Outputs .....	0 to 100 $\mu$ A
.....	RO = 100 k $\Omega$
.....	0 to 10 VDC, Maximum load 5 mA
Analog Input Voltage .....	0 to 10 VDC, RI = 1000 k
Digital Input Voltage .....	15 to 30 VDC, RI = 10 k
Digital Output Voltage .....	24 VDC $\pm$ 15%, Maximum load 100 mA
.....	Total load 4 outputs 350 mA
Standards .....	Designed to meet UL 508 and EN 60204

**Other**

Temperature Range Operating .....	0 to 50°C
Storage .....	-10 to 80°C
Degree of Protection Cabinet Model .....	IP54
Panel Model .....	IP10
Weight (approx.) Cabinet Model .....	~ 4.0 kg
Panel Model .....	~ 1.0 kg
Size (WxDxH) Cabinet Model .....	332mm x 179mm x 260mm
Panel Model .....	177mm x 71mm x 169mm
Cut-Out (WxH) Cabinet Model .....	326mm x 253mm +1/-0mm

**Standard Functions (cabinet)\***

Manual Setpoint .....	Yes
Auto Setpoint .....	Yes
Manual / Auto .....	Yes
Tension On / Off .....	Yes

**Other Functions (optional)**

Splice .....	Yes
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**Communication (optional)**

RS-232** (includes software & cable) .....	Yes
Devicenet .....	Yes
Profibus .....	Yes
CANopen .....	Yes
RWD™ (remote wireless diagnostics)** .....	Yes

\* All functions available in panel model  
 \*\* Controller setup through RS-232  
 \*\*\* Requires customer supplied modem and connection