



- Range expander*
- Web break detection*
- Inertia compensation*
- Transferable memory card*
- RS-232 interface to computer*
- Industrial standard fieldbus connections*

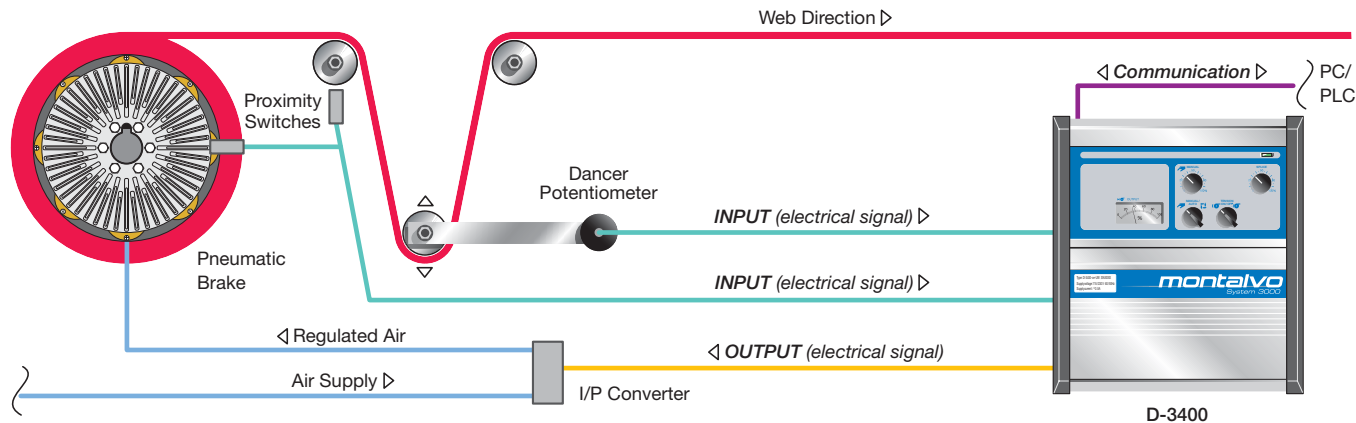
IP54 CE

**System 3000™**

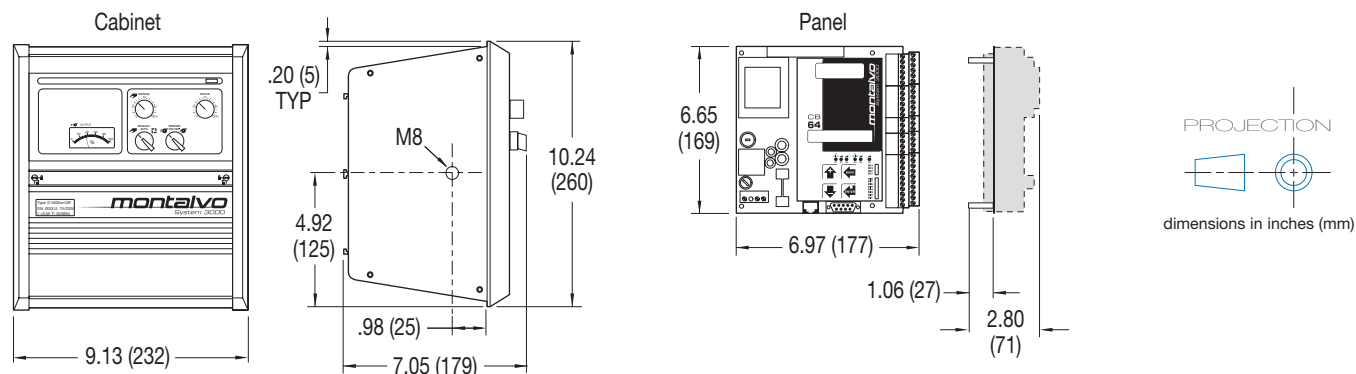
### D-3400 Dancer Controller

Montalvo's D-3400 dancer controller was developed to provide accurate, repeatable tension control. It may be used for unwind applications on web processing machinery employing dancer arm control systems. It includes "Progressive PID" circuitry, which regulates tension based on dancer position and adjusts system gain based on roll diameter to provide a very responsive, yet stable system. Other features include: digital diagnostics, a web break output and, when combined with Montalvo's P-3000-RE, a cycling range expander with 2, 3 or 4 valves. The D-3400 dancer controller is available mounted in Montalvo's System 3000 cabinet or in a circuit board version.

### 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 for 1 minute 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
Zero Range (tare) .....	50% of potentiometer rating
Calibration Range .....	11 to 480
Regulator Outputs .....	0 to 10 VDC, Max. load 5 mA
Meter Outputs .....	4 to 20 mA / 0 to 20 mA, RL = 0 to 1000 $\Omega$
.....	0 to 100 $\mu$ A
.....	0 to 10 VDC, Max. load 5 mA
Dancer Roll Potentiometer Supply .....	$\pm$ 2.5 VDC
Potentiometer Resistance .....	10k $\Omega$
Dancer Potentiometer Input .....	0 - $\pm$ 2.5VDC Max.
Standards .....	Designed to meet UL 508 and EN 60204

**Environmental**

Temperature Range Operating .....	32 to 122°F (0 to 50°C)
Storage .....	14 to 176°F (-10 to 80°C)
Degree of Protection Cabinet Model .....	IP54
Panel Model .....	IP10

**Physical**


Weight (approx.) Cabinet Model .....	~ 7.7 lb (3.5 kg)
Panel Model .....	~ 2.2 lb (1.0 kg)
Size ( WxDxH ) Cabinet Model .....	9.13 x 7.05 x 10.24 (232 x 179 x 260)
Panel Model .....	6.97 x 2.80 x 6.65 (177 x 71 x 169)
Cut-Out ( WxH ) Cabinet Model .....	8.90 x 9.96 (226 x 253)
Cut-Out Tolerance .....	+0.04/-0 (+1/-0)
Dimensions .....	inches (mm)

**Standard Functions (cabinet)\***

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

**Other Functions (optional)**

Splice .....	Yes
Range Expansion  (requires P-3000-RE) .....	Unwind

**Communication  (optional)**

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

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