

DTI-3400-HD

Dancer Controller with Tension Indication



NEW



Montalvo DTI-3400-HD Dancer Controller with Tension Indication

The DTI-3400-HD brings precise, accurate, repeatable tension control to applications utilizing a dancer/rider arm. Combining industry leading technology and advanced functionality with clear and visible tension indication creates a performance driven, convenient, and easy to operate tension control system.

Features

- ▶ **Unwind Zone Functionality**
 - Soft Start: eliminates shocks to the web on startup
 - Anti-coast: prevents web tension from dropping on stop
 - Web Break Detection: stops machine should a break occur
 - Splice: maintains tension for more successful splices
- ▶ **Multiple Feedback Sources** - ultra-sonic, dancer, proximity, laser and potentiometer
- ▶ **Variable Wrap Angle Technology™**  - eliminates need to isolate tension sensing roll
- ▶ **Set It & Forget It Technology** - set-up parameters eliminate constant monitoring
- ▶ **Range Expansion**  - requires P-3000-HD Automatic Range Expander (controls air to multi-range brakes)
- ▶ **Progressive PID Circuitry** - responsive, stable control at full roll to core
- ▶ **Tension Indication** - a visible, quick reference of tension
- ▶ **Multiple Mounting Options** - a dust proof, water resistant heavy duty enclosure or standalone circuit board

CB64

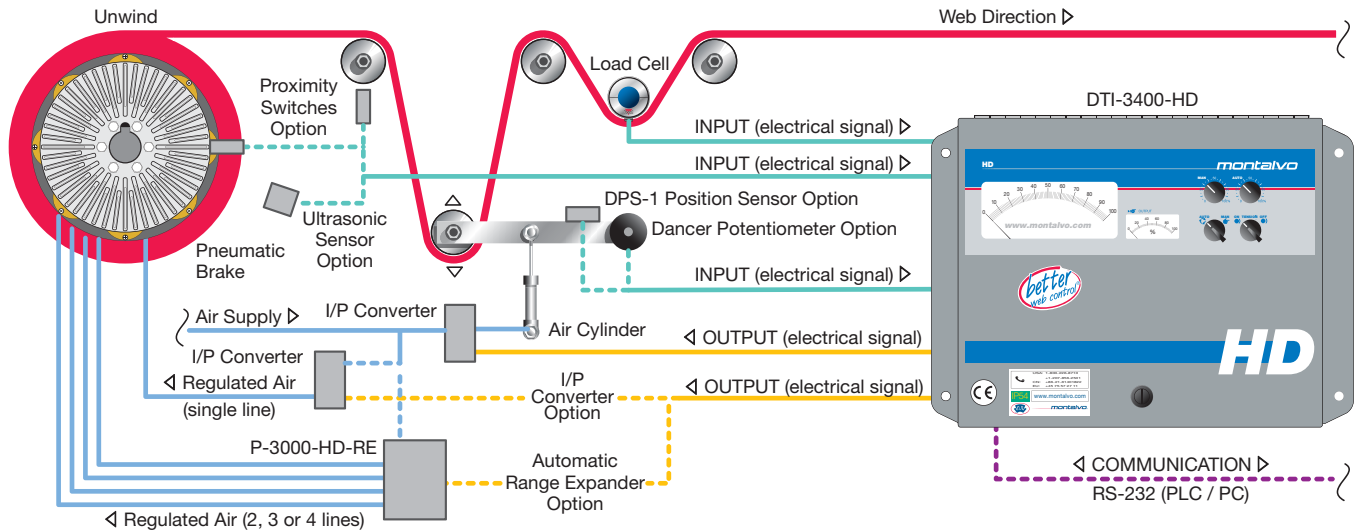
Circuit board version of the DTI-3400-HD



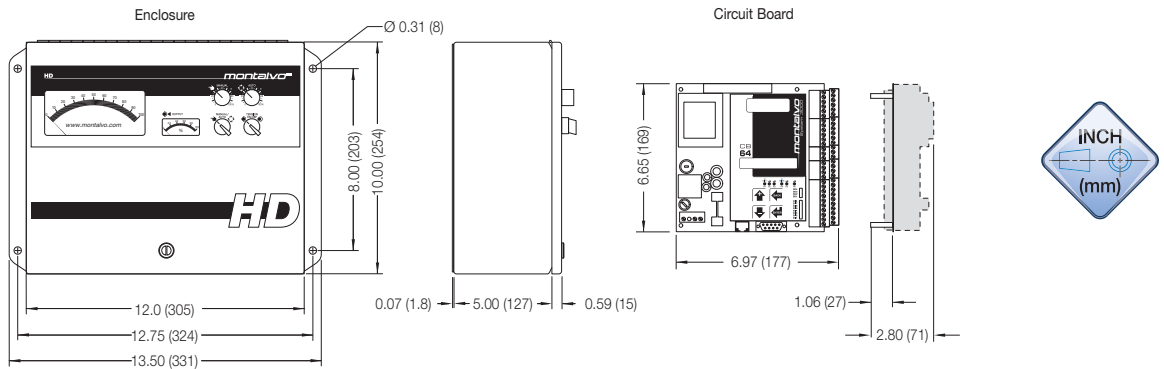
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Dancer Controller with Tension indication

How it works



Dimensions



Specifications

Electrical

AC Input	115 or 230 VAC ±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
Load Cell Supply	±2.5 VDC ±5%
Load Cell Input	0 to ±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, Max. load 5 mA
	4 to 20 mA / 0 to 20 mA, RL = 0 to 1000 Ω
Meter Outputs	0 to 100 μA
	RO = 100k Ω
	0 to 10 VDC, Max. load 5 mA
Analog Input Voltage	0 to 10 VDC, RI = 100k Ω

Digital Input Voltage	15 to 30 VDC, RI = 10k Ω
Digital Output Voltage	24 VDC ± 15%, Max. load 100 mA
	Total load 4 outputs 350 mA
Standard	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	Enclosure	IP54
	Circuit Board	IP10

Standard Functions

Manual Setpoint	Standard
Auto Setpoint	Standard
Manual / Auto	Standard
Tension On / Off	Standard
Splice	Optional
Range Expansion (requires P-3000-HD-RE)	Optional
Variable Wrap Angle	Optional

Communications

RS-232	Standard
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 Better Web Control®