



**Montalvo X-3400-HD-N Intermediate (NIP) Tension Controller**

The X-3400-HD-N is an optimized combination of analog and digital features providing accurate, repeatable tension control in intermediate (NIP) web processing. Processing feedback from load cells and a tachometer input, the X-3400-HD-N outputs to the drive. Available mounted in a cabinet or as a circuit board.

**Features & Benefits**

▶ **Intermediate 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

▶ **Tension Indication** - a visible, quick reference of tension

▶ **Set It & Forget It Technology** - set-up parameters eliminate constant monitoring

▶ **Tension Indication** - a visible, quick reference of tension

▶ **Multiple Mounting Options** - a dust proof, water resistant heavy duty enclosure or standalone circuit board

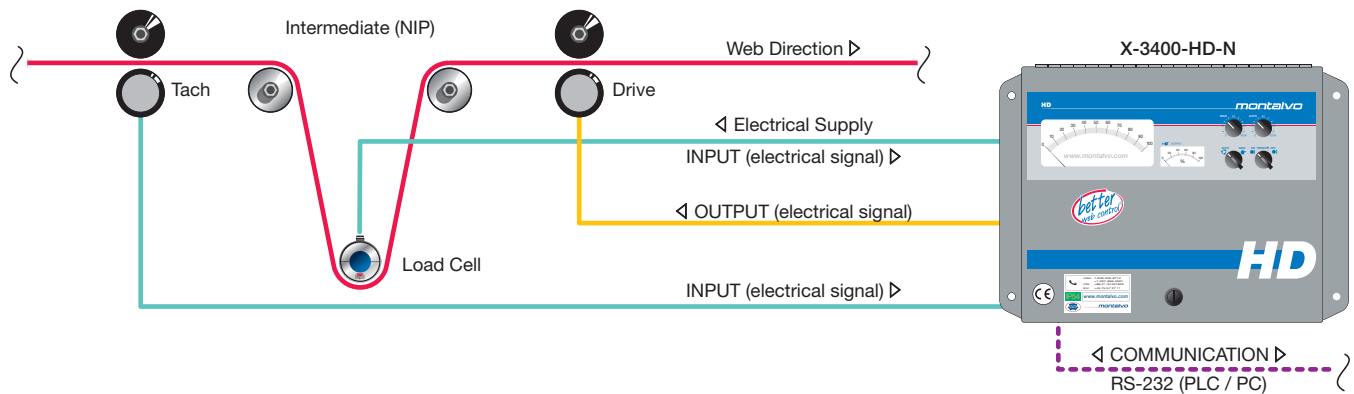
**CB64** - configured as a panel mounted version of Montalvo's X-3400-HD-N



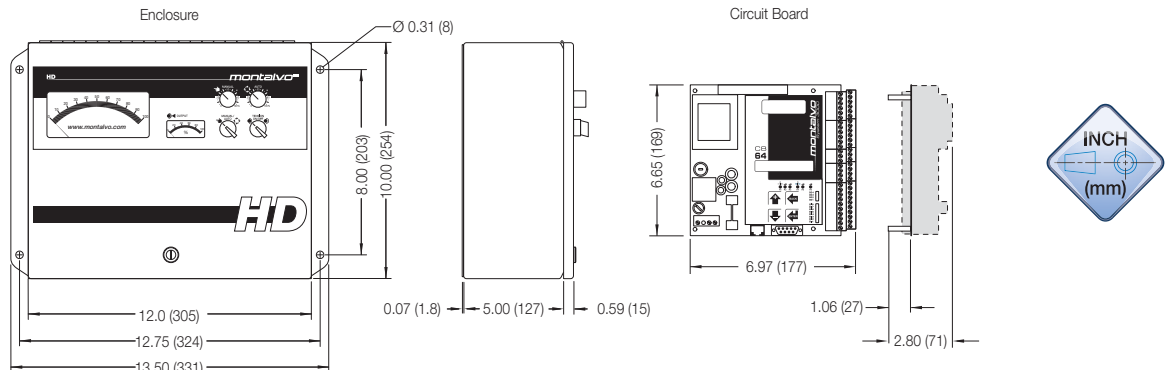
# X-3400-HD-N

Intermediate (NIP) Tension Controller

## 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 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	±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
Calibration Range	11 to 480
Regulator Outputs	0 to 10 VDC, Maximum load 5 mA
	4 to 20 mA / 0 to 20 mA, RL = 0 to 1000 Ω
Meter Outputs	0 to 100 μA
	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 ± 15%, Maximum load 100 mA
	Total load 4 outputs 350 mA
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	Enclosure	IP54
	Circuit Board	P10

### Functions

Auto Setpoint	Standard
Manual / Auto	Standard
Low / High Scale	Standard
Taper	Optional

### Communications

RS-232	Standard
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