

M-3324

Load Cell Amplifier Module

**Montalvo M-3324 Load Cell Amplifier Module**

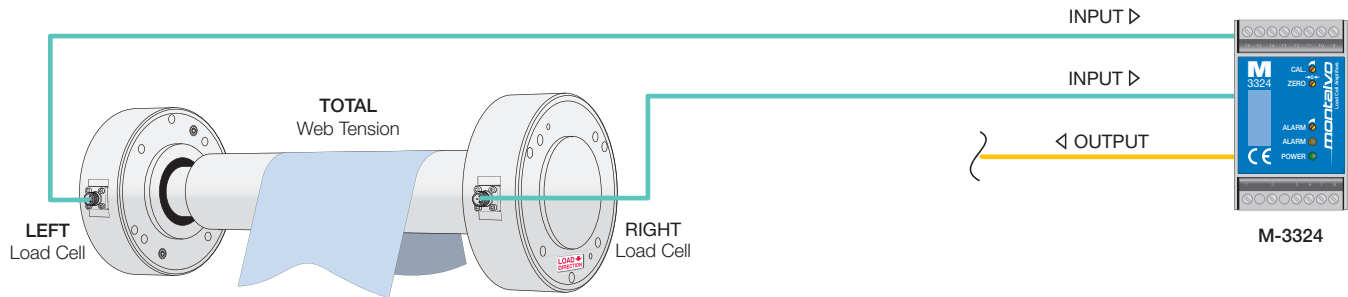
M-3324 modules indicate and monitor web tension by amplifying load cell signals. They provide excitation voltage as well as zero and calibration circuitry. The output can be used to drive a digital or analog meter. For further processing the output can also be interfaced to a PLC, PC, or a DC, AC or servo drive. M-3324 modules work with Montalvo's LP Series foil gauge load cells as well as with other brands. M-3324 indicates and monitors total web tension with adjustments for calibration and zero level.

Features and Benefits

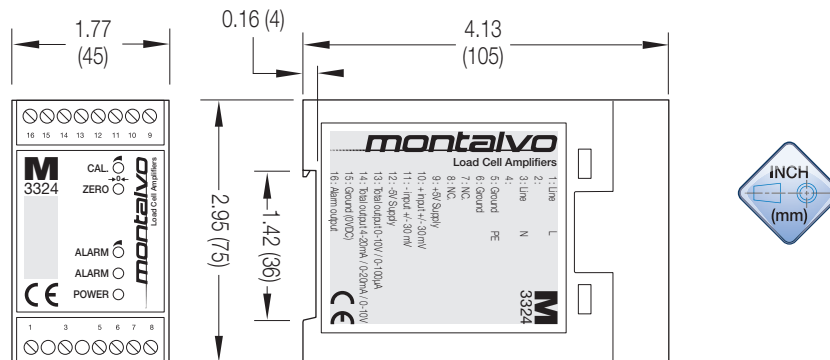
- ▶ **DIN rail mount** - makes installation easy
- ▶ **Compact form** - fits into virtually any application
- ▶ **24 VDC** supply voltage - offers convenient wiring
- ▶ **24V alarm** output with adjustable trip point - for enhanced monitoring
- ▶ **Drive digital or analog tension meter** - choice of monitoring options
- ▶ **Interface with PLC, PC, or DC, AC or servo drive** - for closed loop tension control
- ▶ **Compatible with foil gauge load cells** - Montalvo as well as other brands

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How it works



Dimensions







Specifications

Model
 M-3324 Total Tension Indication
 Part Number..... 11001343

Electrical
 Supply Voltage 24 VDC $\pm 15\%$ (IEC 60204-1)
 Maximum Power Consumption..... 3.5 VA
 Load Cell Input ± 30 mVDC
 Input Impedance 100 k Ω
 Load Cell Supply ± 5.0 VDC $\pm 2\%$
 Zero Range Adjustment 50% of Load Cell Rating [Max. ± 30 mVDC (± 15 mVDC)]
 Gain Adjustment 90 to 4400
 Alarm Output Voltage 24 VDC $\pm 15\%$
 Maximum Alarm Output Load $> 650 \Omega$
 Accuracy Better Than 1%
 Meter Output, Selectable 0 to 100 μ A or 0 to 10 V, Max. Load 5 mA
 Process Output, Selectable 0 to 20 mA or 4 to 20 mA or 0 to 10V
 Process Output Maximum Load (Current) $\leq 500 \Omega$
 Process Output Maximum Load (Voltage) $\geq 2000 \Omega$

Other
 Connections Removable Terminal Blocks
 Mounting DIN Rail 35 mm
 Mounting Orientation Not Critical
 Ambient Temperature Range: Operating 14 to 122°F (-10 to 50°C)
 Ambient Temperature Range: Storage 14 to 176°F (-10 to 80°C)
 Humidity $< 95\%$ Non-Condensing
 Degree of Protection IP20 (IEC 529)
 EMC-Immunity EN 61326
 EMC-Emission EN 61326
 Material Degree of Inflammability UL 94 VO
 Installation Environment (Pollution Degree) 2
 Weight (approx.) 0.66 lb (0.3 kg)
 Size (WxDxH) 1.77 x 4.13 x 2.95 (45 x 105 x 75)
 Dimensions inches (mm)

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