

# M-3224

## Load Cell Amplifier Module

24V 

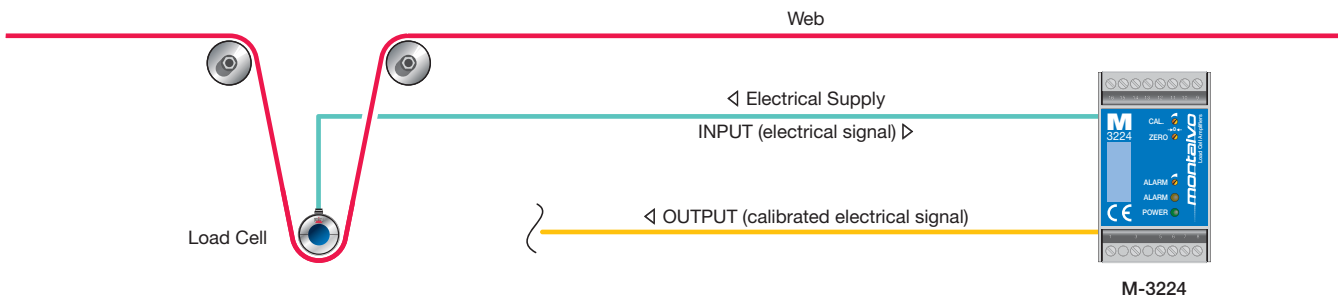
### Montalvo M-3224 Load Cell Amplifier Module

Montalvo's M-3224 Load Cell Amplifier Module, the 24VDC version of the M3200, is used in conjunction with one or two semi-conductor strain gauge load cells to indicate and monitor web tension by amplifying the load cell signal. The M3224 provides excitation voltage as well as adjustments for calibration and zero level.

#### Features

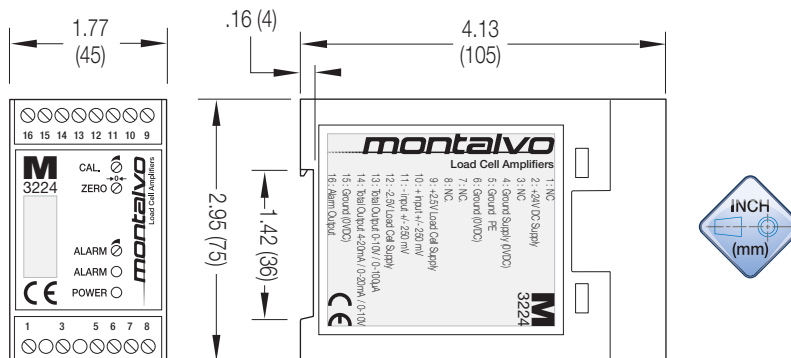
- ▶ **DIN rail mount** - makes installation easy
- ▶ **Compact form** - fits into virtually any application
- ▶ **24 VDC** supply voltage - offers convenient wiring
- ▶ **24V alarm** output with adjustable trip point - for enhanced monitoring
- ▶ **Drive digital or analog tension meter** - choice of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

**How it works**



M-3224 indicates and monitors total web tension with adjustments for calibration and zero level.

**Specifications**



**Model**

M-3224 ..... Total Tension Indication  
 Part Number..... 11000898

**Electrical**

Supply Voltage ..... 24VDC ±15%(IEC 60204-1)  
 Maximum Power Consumption..... 3.6 VA  
 Load Cell Input ..... ±250 mVDC  
 Input Impedance ..... 100 kΩ  
 Load Cell Supply ..... ±2.5 VDC ±2%  
 Meter Output, Selectable..... 0 to 100 μA / 0 to 10V, Max. Load 5 mA  
 Process Output, Selectable ..... 0 to 20mA / 4 to 20 mA / 0 to 10V  
 Process Output Maximum Load (Current).....500 Ω  
 Process Output Maximum Load (Voltage).....5000 Ω  
 Zero Range Adjustment.....50% of Load Cell Rating (±250 mVDC)  
 Gain Adjustment ..... 11 to 510  
 Accuracy.....Better than 1%  
 Alarm Output Voltage ..... 24 VDC ±1%  
 Maximum Alarm Output Load.....> 650 Ω  
 EMC-Immunity / Emission .....EN 61326

**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 50082-2 Industry  
 EMC-Emission.....EN 50081-1 Trade and Light Industry  
 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)

	207-856-2501 / 800-226-8710
	+86-21-52188010
	+45 75 57 27 11
	+49 (0)511 760 691 41



The Montalvo Corporation

EST. 1947 **montalvo**  
 Better Web Control®

50 Hutcherson Drive, Gorham, Maine 04038 USA  
 Fax: 1-800-644-5097 / 207-856-2509

1-800-226-8710 / info@montalvo.com / www.montalvo.com  
 Technical details subject to change without notice. M3224-US-01 © Montalvo