

*Measurement range fits most applications*

*Alarm output with adjustable trip point*

*DIN rail mountable*

*Cost effective*

*Compact*

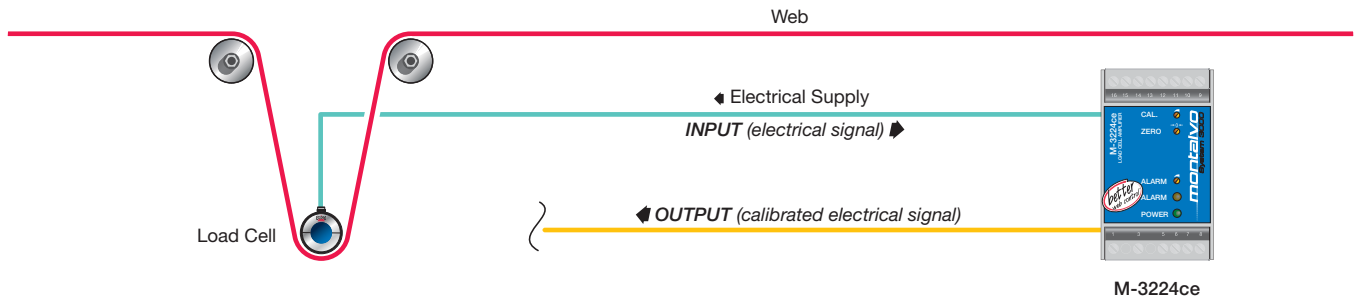


*System 3000™*

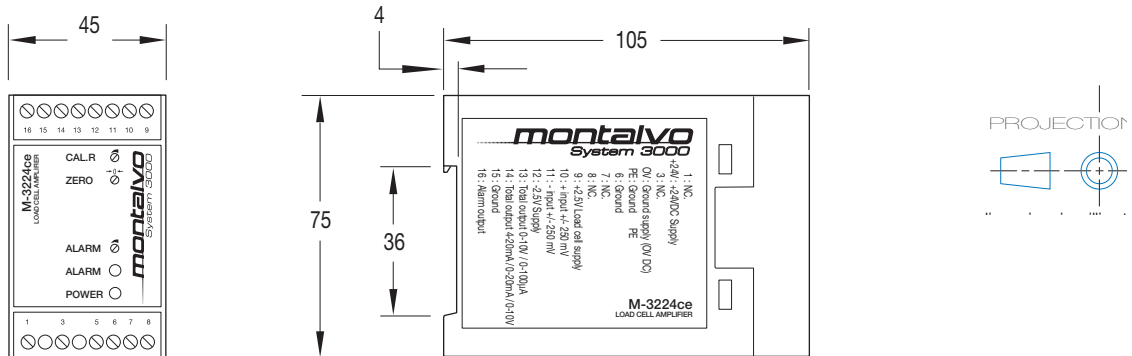
### M-3224ce Load Cell Amplifier

Montalvo's M-Series modules are used to monitor and indicate the exact tension in a moving web by amplifying load cell signals. They provide the excitation voltage as well as zero and calibration circuitry. The output can be used to drive a digital or analog tension meter. For further processing the output can also be interfaced to a PLC, a PC, or a DC, AC or servo drive. The M-3224ce module works with Montalvo's N, T, and UPB Series semiconductor strain gauge load cells as well as with other brands. It monitors and indicates total web tension and is suitable for use in most applications involving slitters, coaters, rewinders, embossers and printing and label presses. The M-3224ce utilizes 24VDC power provided by most PLC and machine control circuitry. 110/220VAC units are also available.

Typical Application



Specifications



Model

M-3224ce ..... Total Tension Indication

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%  
 Process Output Load Max. (Current) ..... 500 Ω  
 Process Output Load Max. (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%  
 Alarm Output Load ..... > 650 Ω  
 EMC-Immunity / Emission ..... EN 61326

Other

Connections ..... Removable Terminal Blocks  
 Mounting ..... DIN Rail 35mm  
 Mounting Orientation ..... Not Critical  
 Ambient Temperature Range: Operating ..... -10°C to 50°C  
 Ambient Temperature Range: Storage ..... -10°C to 80°C  
 Humidity ..... < 95% Non-Condensing  
 Degree of Protection ..... IP20 (IEC 529)  
 Installation Environment (Pollution Degree) ..... 2  
 Weight (approx.) ..... 0.3 kg  
 Size ( LxWxH ) ..... 75mm x 45mm x 105mm

Features

Meter Output, Selectable ..... 0 to 100 μA / 0 to 10V, Max. Load 5 mA  
 Process Output, Selectable ..... 4 to 20mA / 0 to 20 mA / 0 to 10V