

Measurement range fits most applications

Alarm output with adjustable trip point

DIN rail mountable

Cost effective

Compact

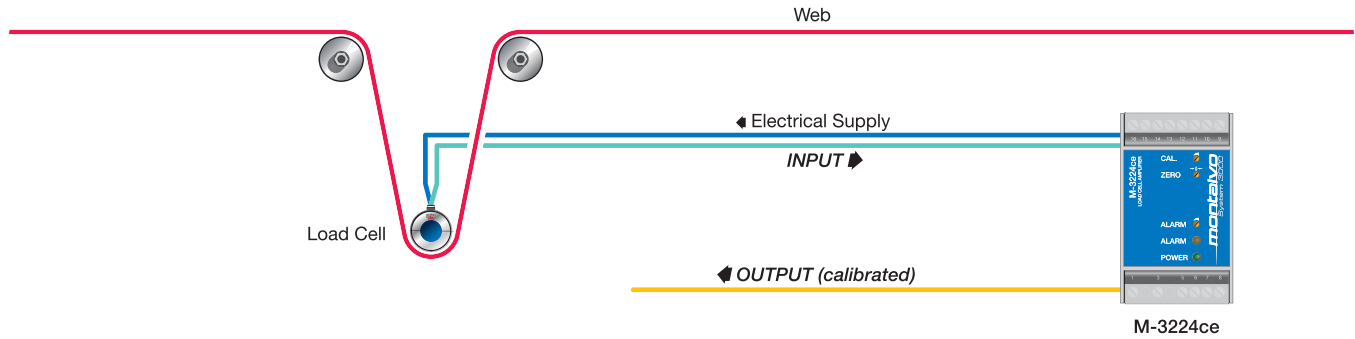


System 3000™

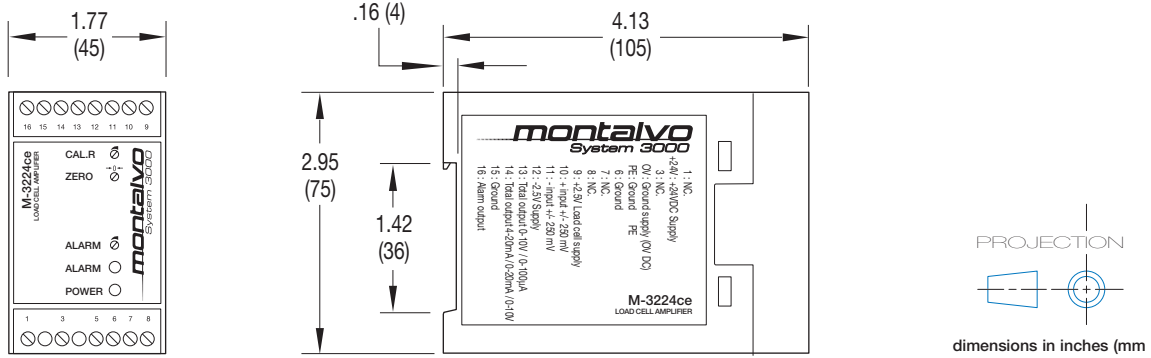
M-3224ce Load Cell Amplifier

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 \pm 15% (IEC 60204-1)
 Maximum Power Consumption 3.6 VA
 Load Cell Input \pm 250 mVDC
 Input Impedance 100 k Ω
 Load Cell Supply \pm 2.5 VDC \pm 2%
 Process Output Load (Current) \leq 500 Ω
 Process Output Load (Voltage) $>$ 2000 Ω
 Zero Range Adjustment 100% of Load Cell Rating (\pm 250 mVDC)
 Gain Adjustment 11 to 510
 Accuracy Better than 1%
 Alarm Output Voltage 24 VDC \pm 1%
 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°F to 122°F (-10°C to 50°C)
 Ambient Temperature Range: Storage 14°F to 176°F (-10°C to 80°C)
 Humidity $<$ 95% Non-Condensing
 Degree of Protection IP20 (IEC 529)
 Installation Environment (Pollution Degree) 2
 Weight (approx.) 0.72 lb (0.3 kg)
 Dimensions - L x W x H 2.95 x 1.77 x 4.13 (75 x 45 x 105)

Features

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