Closed-loop unwind or rewind

Compact version of S-3100ce

Advanced circuit board

Convenient data storage

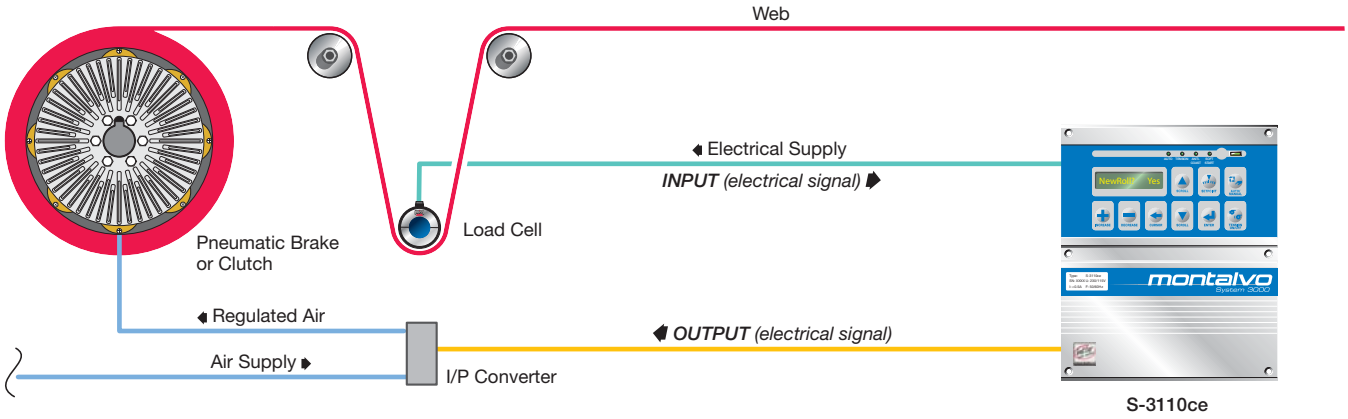
Uniform response

System 3000™

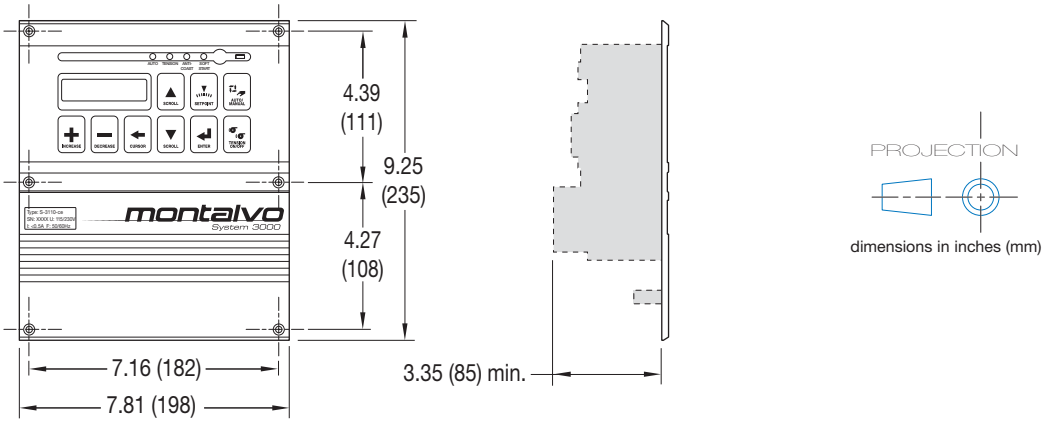
S-3110ce Digital Tension Controller

Montalvo S-3110ce, panel mount version of the successful S-3100ce digital tension controller. For those wishing to build the controller into their cabinet, the compact design of the S-3110ce saves the space and cost of the enclosure without sacrificing performance. The S-3110ce utilizes the same advanced CE-compliant circuit board found in the enclosure version. Parameters and setups are displayed on a sixteen-character alphanumeric display and entered via keypad. In addition to pictographs illustrating the functions, keypads are available with either English text or English and Chinese characters. The S-3110ce controller is an advanced Montalvo closed-loop tension controller employing a proprietary "Diamatic" control algorithm which insures uniform control response regardless of roll diameter. Used in unwind and rewind tension applications providing fast, precise tension control.

Typical Application



Specifications



Electrical

Power In	115/230 V, 60/50 Hz, 0.2 A
Output (control signal-factory set)	4-20 mA, 0-10 V
Load Cell Supply	±2.5 VDC
System Accuracy	1 to 3% TYP

Other

Ambient Temperature	14 to 122˚F (-10 to 50˚C)
Weight	3.6 lb (1.63 kg)
Classification	IP10
Size (W x D x H)	7.81 x 3.35 x 9.25 (198 x 85 x 235)
Cut-Out (W x H)	6.89 x 8.46 (175 x 215)
Dimensions	inches (mm)

Features

Tension Set/Display		Total or PLI
Unwind	Soft Start	Yes
	Anti-Coast	Yes
	Jog (requires only 1 external dry contact)	Yes
	Manual	Yes
	Splice	Yes
Rewind	Taper (requires no external sensors)	Yes
	Inertia Start	Yes
	Inertia Stop	Yes
	Splice	Yes
Electro/Pneumatic Converter Supported		Montalvo MPC-4ce
Voltage Converter Supported		Montalvo MVC-2

ADDITIONAL NOTES: The required input signal is supplied by strain gauge or DC LVDT web load cells. The S-3110ce can be interfaced with electric and pneumatic brakes, clutches, AC or DC drives. Options include web break detection and remote tension setting by potentiometer or PLC.

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