

# Spyder Plus Tension Control

**Open Loop,  
Load Cell or  
Dancer Control**



Spyder Plus is a simple, powerful, cost-effective tension control that saves space in a control cabinet. The DIN rail mount simplifies installation and a user-friendly keypad and display makes it easy to learn and set up.

Spyder Plus provides accurate, reliable control in open loop or closed loop applications by providing feedback to clutches and brakes, or interfacing directly with a drive in unwind, rewind, or point-to-point applications.

Communications provide the ability to interface and share data with an existing PLC, remote PC, HMI or web browser, allowing for remote setpoint adjustment to further improve efficiency, especially when multiple controls are used in the same process.

Applications include open loop using 3rd party diameter input, closed loop using load cells, and closed loop using dancer feedback.

## Features

- Powerful tension control at an affordable price
- Parameter access via keypad or internet browser
- Advanced features for Dancer applications including Dancer Mode and Remote Setpoint Adjustment
- Use to control magnetic particle or pneumatic clutches and brakes, or interface directly with a drive
- Compact size for out-of-the-way mounting
- Adjustable taper tension
- Capable of closed loop, open loop, load cell or dancer control

# Spyder Plus Specifications and Dimensions

## Inputs (from load cell, dancer position, or roll diameter)

Load cell	2.1 mV/V using +5 VDC and -5 VDC across one 350 Ω sensor or two 350 Ω sensors in parallel
Tension Setpoint, Manual Setpoint	0 VDC to +10 VDC, 0.25 mADC max, or 1k to 10k Ω potentiometer
E-Stop, Run/Stop, Tension Off, Auto/Manual	Switch closure or 5 VDC or 24 VDC active high/low logic, 8 mADC max
Dancer Position (for dancer mode)	1k to 10k Ω potentiometer, or a 0 to 10 VDC Signal
3rd party Ultrasonic, Laser, or other sensor for diameter input (for open loop mode)	0 to 10 VDC Signal

## Certifications

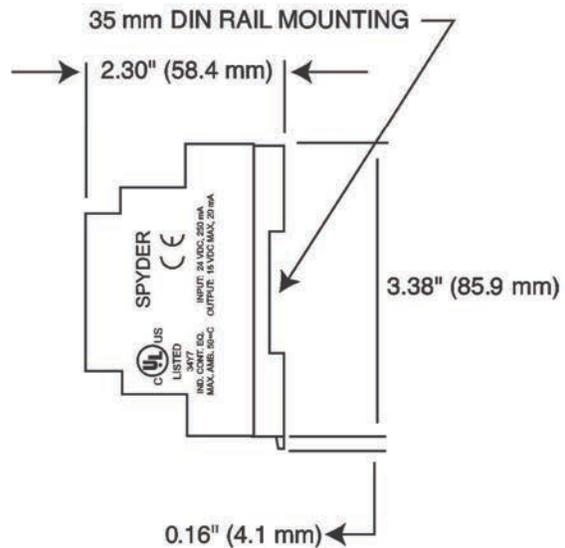
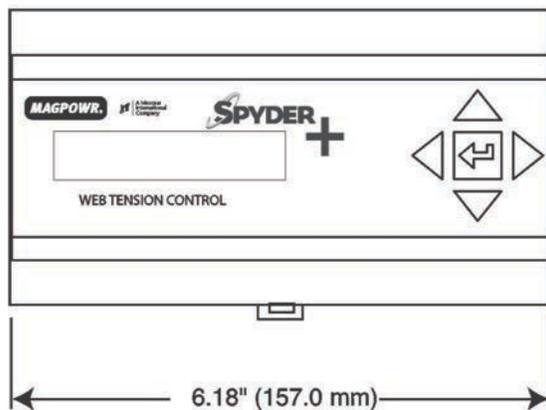
CE
UL 508C Listed

## Outputs

Torque (Main Output)	0 to +10 VDC, 1 mADC max 4 to 20 mADC, 500 Ω max -10 to +10 VDC, 1 mADC max
Tension meter	0 to 1 mADC or 0 to +10 VDC analog
Communications	Modbus/TCP, FTP Client, HTTP Web Server Interface
Web Browser File Format	html

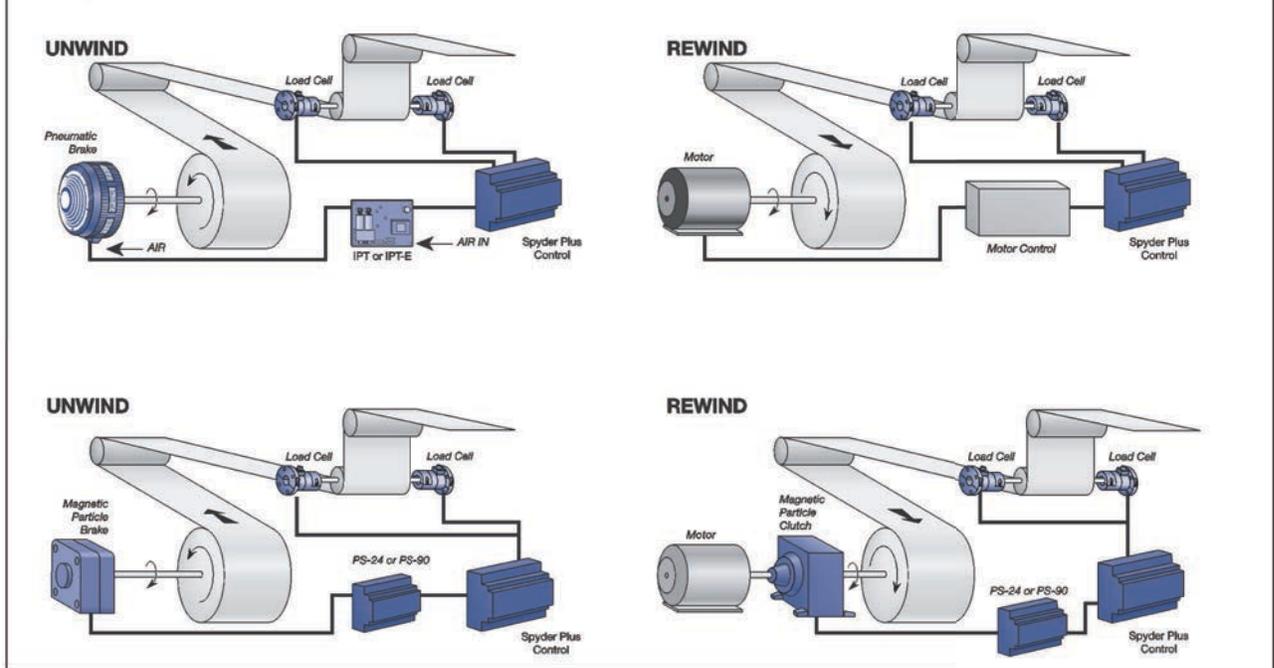
## Specifications

Supply Voltage	24 VDC, ±10%, 250 mA, 6 VA
Enclosure	IP-20 (IEC529)
Temperature Range	Operating: 0° C to 50° C Storage: -30° C to +80° C

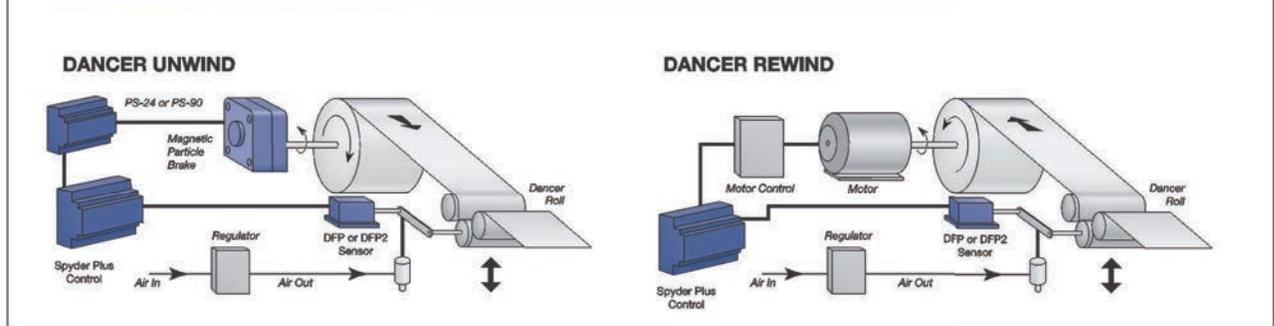


# Spyder Plus Applications

## CLOSED LOOP LOAD CELL APPLICATIONS



## CLOSED LOOP DANCER APPLICATIONS



## OPEN LOOP APPLICATIONS

