Web Tension Transmitter

FEATURES

- Web Tension Measurement
- Eliminates low tension signal drift
- Simple System Set Up and Calibration
- Compact - Lightweight DIN Rail “Snap Track” Installation
- Independent Zero and Span Adjustments
- Galvanically Isolated 0-10V, 4-20mA Output Signals
- Bipolar Uplifting or Downward Tension Force Measurement
- Low power - 24Vdc @ 125 mA
- Filters any electrical noise caused by AC drives, servo motors, and switching devices

DESCRIPTION

PS-1010T Transmitter provides signal conditioning, amplification, and an isolated analog output signal for web tension measurement and control systems.

The galvanically isolated analog output signal accurately tracks web tension force signals for precise brake/clutch control or remote panel meter display.

“Snap on” DIN Rail mounting and full front panel configuration significantly reduce system start-up time.

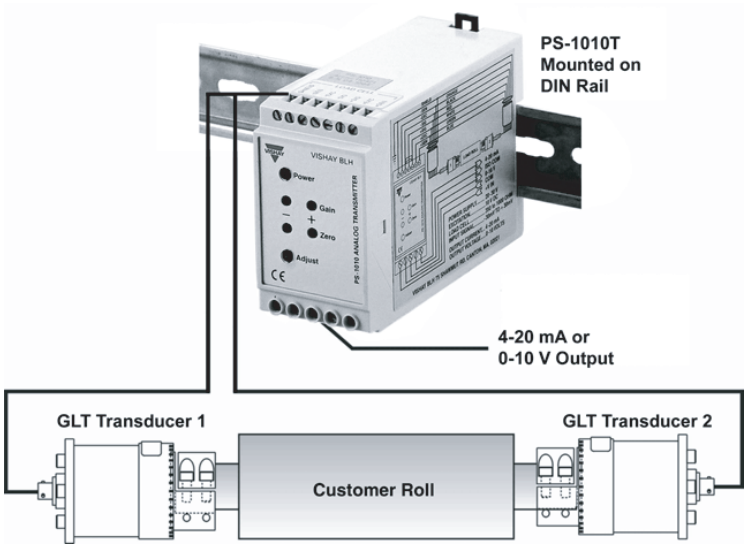
When combined with precision, factory calibrated, transducers, PS-1010T Systems perform superbly, eliminating signal drift and constant recalibration requirements.

The PS-1010T transmitter is designed to provide long term reliability wherever tension is to be measured and controlled in the continuous processing of paper; plastic, film, foil, tape, rubber, filament, wire, cable and many other products.

APPLICATIONS

- Single zone web tension measurement
- Paper, film, foil converting equipment
- Winders and rewinders
- Laminating and coating sections

CONFIGURATION



Accompaniment Product

GLT Web Tension Transducers with pillow block or conventional frame mounting options (document number: 12199)

SPECIFICATIONS

PERFORMANCE

Full Scale Input	-3.0 to +3.0mV/V full bridge
Dead Load Range	± 100% full scale output
Calibration Range	0.2 to 2.5mV/V for nominal output (1:12.5)
Linearity	0.01% full scale output
Common Mode Rejection	120dB minimum
Common Mode Input	±20% of excitation voltage
Temperature Stability	50ppm/°C
Response Time	<100ms
Input Impedance	>250 MOhms nominal

ENVIRONMENT

Operating Temperature	0 to 55°C (32 to 131°F)
Storage Temperature	-25 to 55°C (-13 to 131°F)
Humidity	85% at 55 degrees C
Atmosphere	nonflammable and noncorrosive

TRANSDUCER SUPPLY

Excitation	10.0 volts dc (symmetric ±5V)
Gage Resistance	175 -1000 Ohms
Gage Type foil (	2-3mV/V), full bridge
Number of load cells	two (2) per tension zone’

POWER SUPPLY

Supply Voltage	24Vdc @ 125mA
Range	20 to 30Vdc

ANALOG OUTPUT SIGNALS

Voltage	0-10Vdc @ >2K Ohms
Current	4-20mA @ < 700 Ohms
Galvanically Isolated	Yes

INTERFACE

	panel indicator or PLC input

ENCLOSURE

Type	DIN-Rail mount
Overall Size	45 x 75 x 105mm L x H x D (1.77 x 2.95 x 4.13 inches L x H x D)
Weight	185 grams (6.5oz)
Terminals	standard screw clamp type

APPROVALS

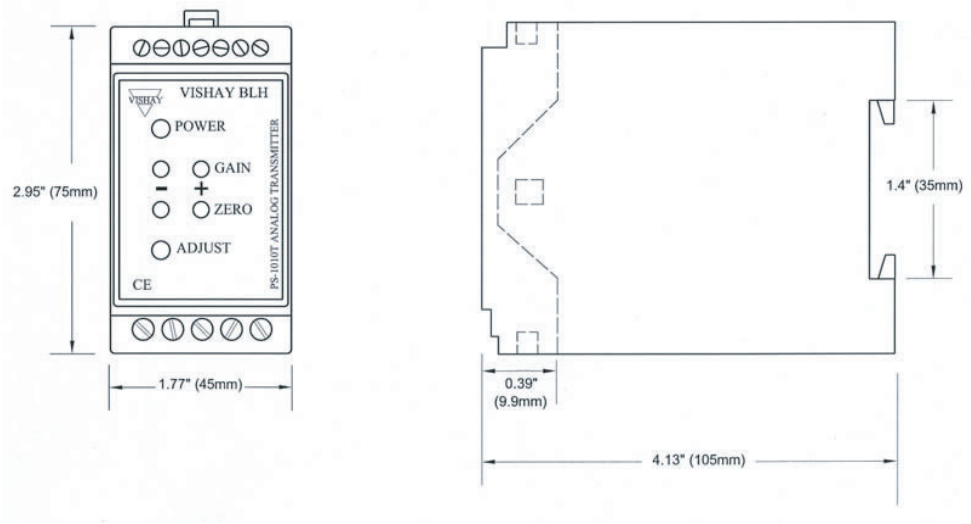
CE	conforms to IEC 61326

OPERATING CONDITIONS

Pollution	pollution degree 2
Protection	IP20 enclosure

is continually seeking to improve product quality and performance. Specifications may change without notice.

OUTLINE DIMENSIONS



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